



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 01:28 PM EST

PDB ID : 2KLL
BMRB ID : 16317
Title : Solution structure of human interleukin-33
Authors : Lingel, A.; Fairbrother, W.
Deposited on : 2009-07-06

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) : 2.40

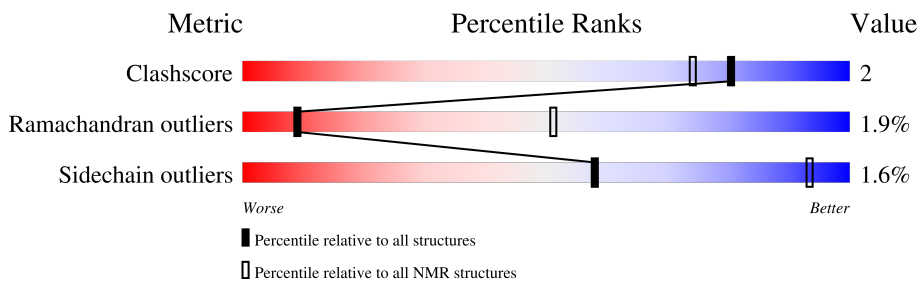
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

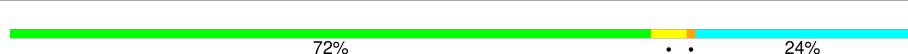
The overall completeness of chemical shifts assignment is 84%.

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	161	 72% . . 24%

2 Ensemble composition and analysis i

This entry contains 10 models. Model 9 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:7-A:27, A:33-A:40, A:47-A:56, A:70-A:142, A:150-A:160 (123)	0.47	9

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2510 atoms, of which 1236 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Interleukin-33.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	161	2510	804	1236	202	261	7	0

There is a discrepancy between the modelled and reference sequences:

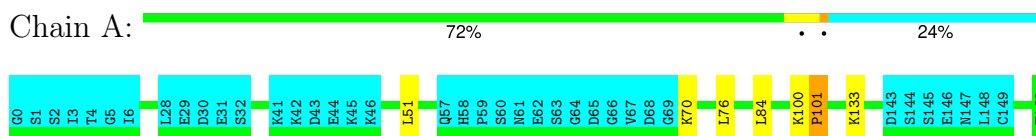
Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	expression tag	UNP O95760

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: Interleukin-33

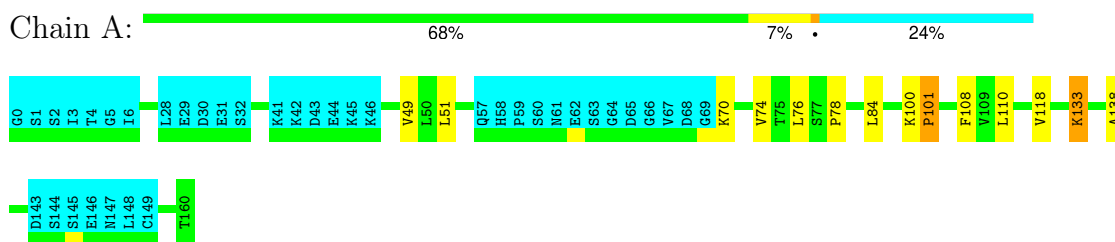


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

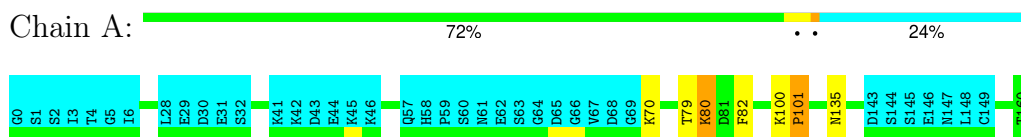
4.2.1 Score per residue for model 1

- Molecule 1: Interleukin-33



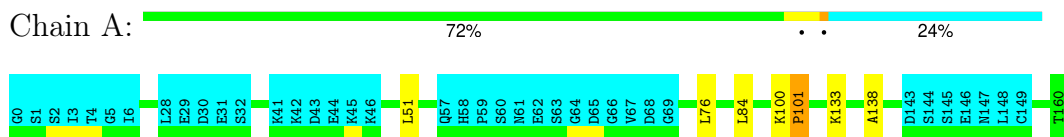
4.2.2 Score per residue for model 2

- Molecule 1: Interleukin-33



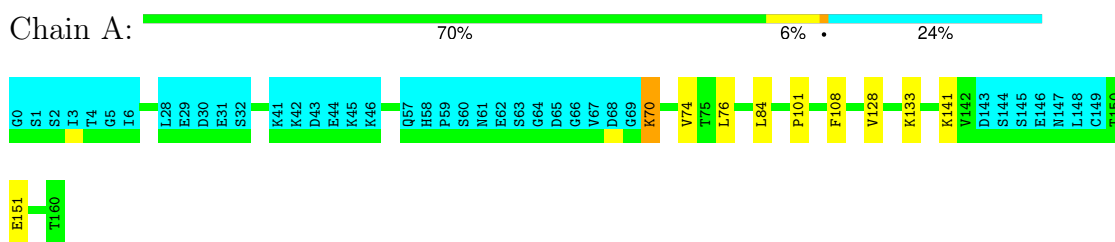
4.2.3 Score per residue for model 3

- Molecule 1: Interleukin-33



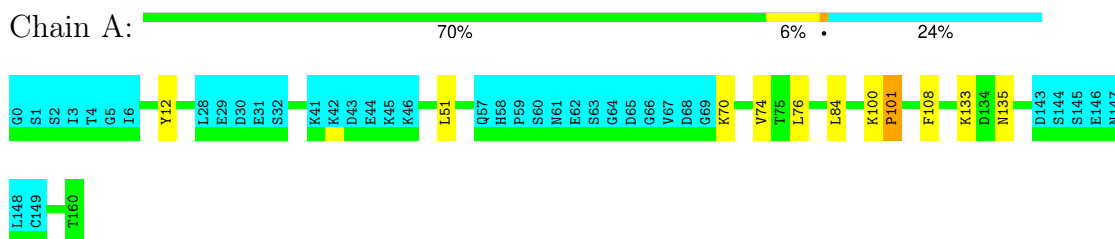
4.2.4 Score per residue for model 4

- Molecule 1: Interleukin-33



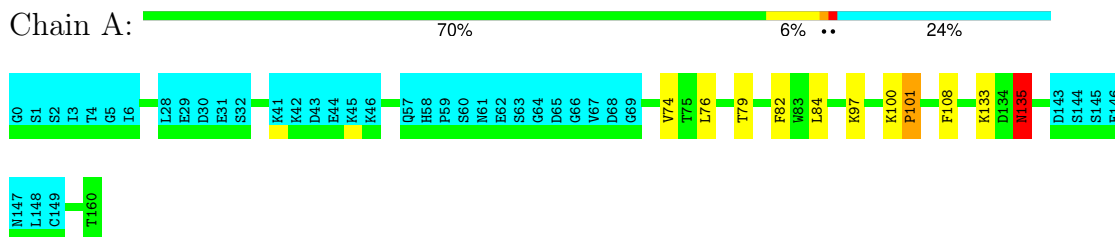
4.2.5 Score per residue for model 5

- Molecule 1: Interleukin-33



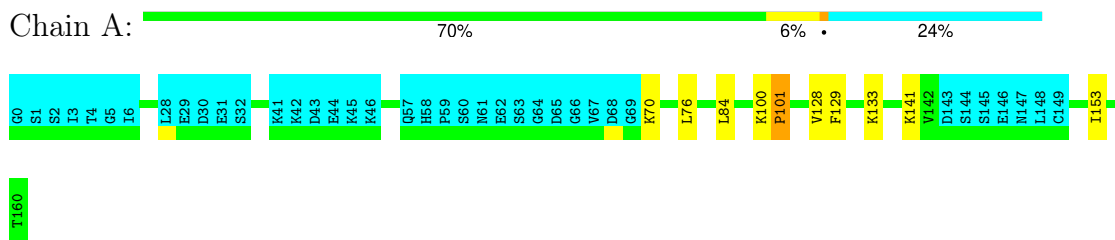
4.2.6 Score per residue for model 6

- Molecule 1: Interleukin-33



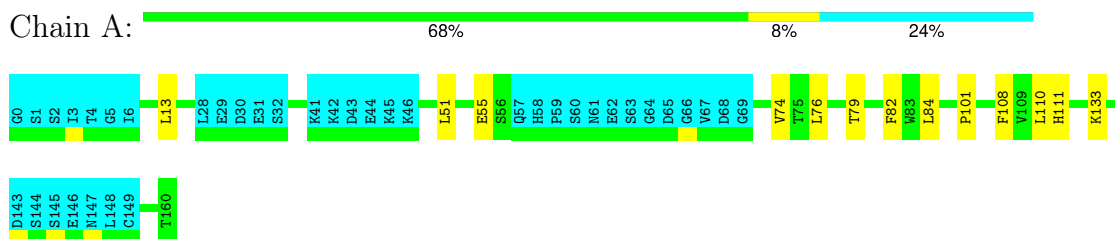
4.2.7 Score per residue for model 7

- Molecule 1: Interleukin-33



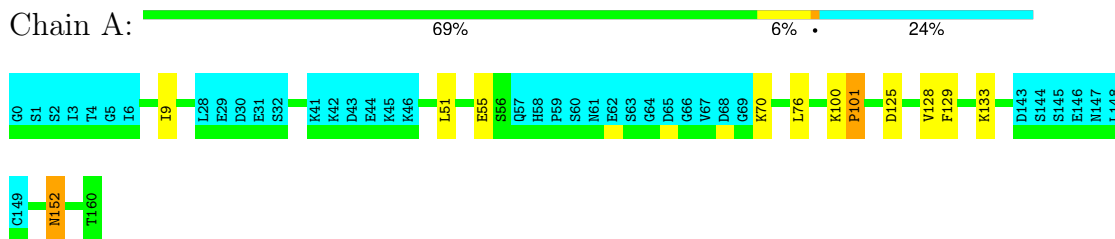
4.2.8 Score per residue for model 8

- Molecule 1: Interleukin-33



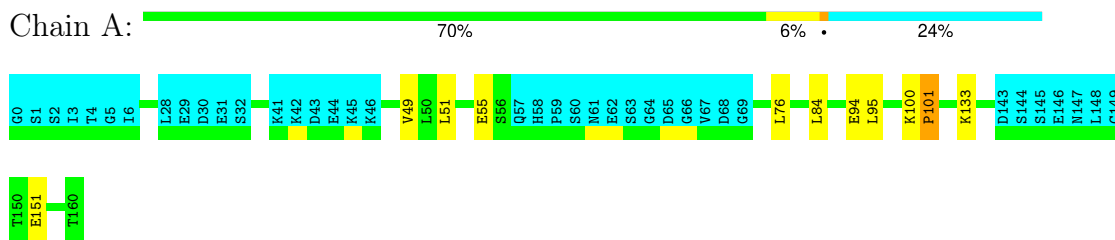
4.2.9 Score per residue for model 9 (medoid)

- Molecule 1: Interleukin-33



4.2.10 Score per residue for model 10

- Molecule 1: Interleukin-33



5 Refinement protocol and experimental data overview

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

Of the 100 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
ARIA	structure solution	2.2
CNS	structure solution	
CNS	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1745
Number of shifts mapped to atoms	1745
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	84%

6 Model quality

6.1 Standard geometry

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	997	982	976	5±1
All	All	9970	9820	9760	49

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 2.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:LEU:HD22	1:A:76:LEU:HD22	0.61	1.72	5	5
1:A:133:LYS:HB2	1:A:138:ALA:HB3	0.59	1.74	3	2
1:A:70:LYS:N	1:A:70:LYS:HE3	0.55	2.17	4	1
1:A:100:LYS:N	1:A:101:PRO:HD2	0.52	2.19	10	5
1:A:13:LEU:N	1:A:13:LEU:HD22	0.52	2.19	8	1
1:A:76:LEU:HB2	1:A:84:LEU:HD22	0.52	1.82	3	7
1:A:128:VAL:HB	1:A:141:LYS:HB2	0.47	1.85	7	2
1:A:152:ASN:N	1:A:152:ASN:HD22	0.46	2.08	9	1
1:A:135:ASN:N	1:A:135:ASN:HD22	0.46	2.08	6	1
1:A:49:VAL:HG13	1:A:51:LEU:HD21	0.45	1.87	10	1
1:A:74:VAL:HG12	1:A:108:PHE:O	0.45	2.10	8	5
1:A:110:LEU:HD23	1:A:111:HIS:N	0.45	2.26	8	1
1:A:100:LYS:HB3	1:A:101:PRO:HD3	0.44	1.88	1	3
1:A:128:VAL:HA	1:A:141:LYS:HA	0.44	1.89	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:LEU:HD22	1:A:76:LEU:CD2	0.44	2.43	10	1
1:A:125:ASP:O	1:A:128:VAL:HG12	0.43	2.12	9	1
1:A:70:LYS:HE3	1:A:70:LYS:H	0.43	1.71	4	1
1:A:13:LEU:N	1:A:13:LEU:CD2	0.43	2.81	8	1
1:A:79:THR:OG1	1:A:82:PHE:HB2	0.43	2.14	2	3
1:A:51:LEU:HD23	1:A:51:LEU:N	0.42	2.28	5	1
1:A:9:ILE:HD11	1:A:55:GLU:HB3	0.41	1.93	9	1
1:A:110:LEU:HD11	1:A:118:VAL:HB	0.41	1.93	1	1
1:A:51:LEU:HG	1:A:76:LEU:HD22	0.41	1.93	9	1
1:A:97:LYS:HB3	1:A:97:LYS:NZ	0.41	2.31	6	1
1:A:49:VAL:HG13	1:A:78:PRO:N	0.40	2.31	1	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	122/161 (76%)	113±2 (92±2%)	7±3 (6±2%)	2±1 (2±1%)	9	51
All	All	1220/1610 (76%)	1126 (92%)	71 (6%)	23 (2%)	9	51

All 5 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	101	PRO	10
1	A	133	LYS	8
1	A	135	ASN	3
1	A	80	LYS	1
1	A	153	ILE	1

6.3.2 Protein sidechains [i](#)

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

was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	116/149 (78%)	114±1 (98±1%)	2±1 (2±1%)	58 93
All	All	1160/1490 (78%)	1141 (98%)	19 (2%)	58 93

All 11 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	70	LYS	6
1	A	151	GLU	2
1	A	129	PHE	2
1	A	55	GLU	2
1	A	80	LYS	1
1	A	12	TYR	1
1	A	135	ASN	1
1	A	152	ASN	1
1	A	84	LEU	1
1	A	94	GLU	1
1	A	95	LEU	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

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 84% for the well-defined parts and 82% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping i

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

Total number of shifts	1745
Number of shifts mapped to atoms	1745
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	3

7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	155	0.02 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	150	0.33 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	150	0.70 ± 0.37	None needed (imprecise)

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 84%, i.e. 1429 atoms were assigned a chemical shift out of a possible 1696. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	480/607 (79%)	241/243 (99%)	122/246 (50%)	117/118 (99%)
Sidechain	815/905 (90%)	547/592 (92%)	268/294 (91%)	0/19 (0%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	134/184 (73%)	71/89 (80%)	62/82 (76%)	1/13 (8%)
Overall	1429/1696 (84%)	859/924 (93%)	452/622 (73%)	118/150 (79%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 82%, i.e. 1742 atoms were assigned a chemical shift out of a possible 2132. 0 out of 27 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	614/800 (77%)	309/323 (96%)	155/322 (48%)	150/155 (97%)
Sidechain	993/1140 (87%)	662/739 (90%)	331/375 (88%)	0/26 (0%)
Aromatic	135/192 (70%)	72/93 (77%)	62/84 (74%)	1/15 (7%)
Overall	1742/2132 (82%)	1043/1155 (90%)	548/781 (70%)	151/196 (77%)

7.1.4 Statistically unusual chemical shifts [i](#)

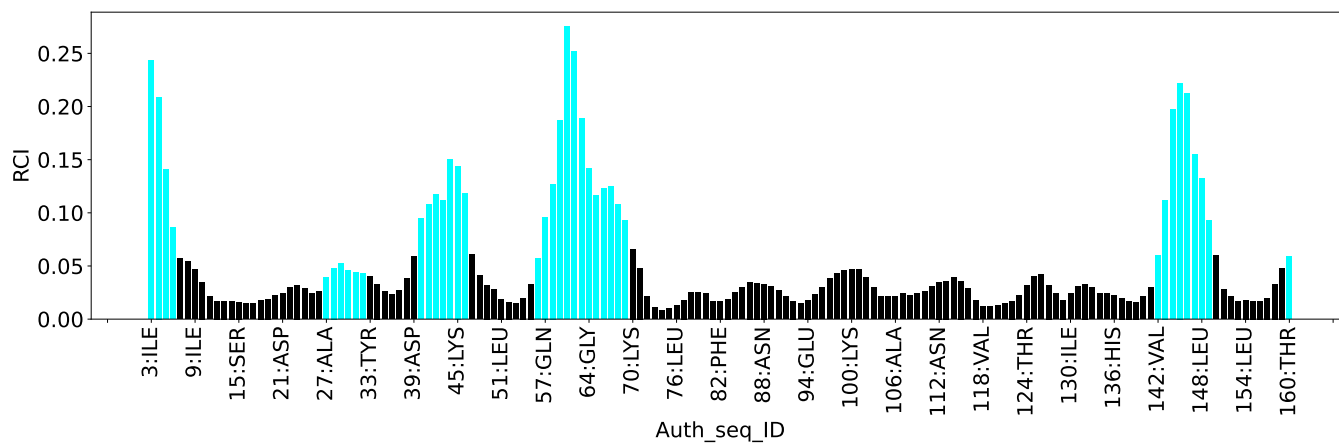
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	18	THR	HG1	6.01	0.08 – 2.19	23.1
1	A	79	THR	HG1	4.43	0.08 – 2.19	15.6
1	A	77	SER	HB2	2.45	2.61 – 5.13	-5.6

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	4769
Intra-residue ($ i-j =0$)	1714
Sequential ($ i-j =1$)	909
Medium range ($ i-j >1$ and $ i-j <5$)	422
Long range ($ i-j \geq 5$)	1648
Inter-chain	0
Hydrogen bond restraints	76
Disulfide bond restraints	0
Total dihedral-angle restraints	245
Number of unmapped restraints	0
Number of restraints per residue	31.1
Number of long range restraints per residue ¹	10.7

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)	23.5	0.2
0.2-0.5 (Medium)	53.6	0.5
>0.5 (Large)	85.8	2.76

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	1.5	1.36
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis [i](#)

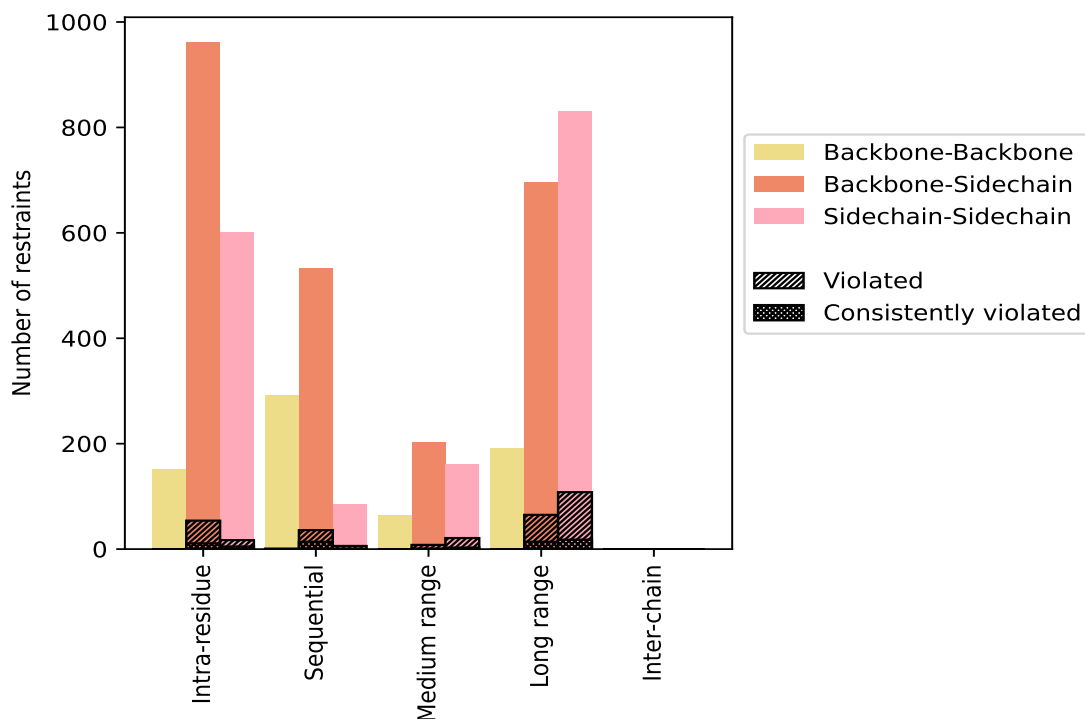
9.1 Summary of distance violations [i](#)

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	1714	35.9	71	4.1	1.5	16	0.9	0.3
Backbone-Backbone	152	3.2	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	961	20.2	54	5.6	1.1	11	1.1	0.2
Sidechain-Sidechain	601	12.6	17	2.8	0.4	5	0.8	0.1
Sequential ($i-j =1$)	909	19.1	43	4.7	0.9	15	1.7	0.3
Backbone-Backbone	292	6.1	1	0.3	0.0	0	0.0	0.0
Backbone-Sidechain	532	11.2	36	6.8	0.8	14	2.6	0.3
Sidechain-Sidechain	85	1.8	6	7.1	0.1	1	1.2	0.0
Medium range ($i-j >1$ & $i-j <5$)	422	8.8	29	6.9	0.6	4	0.9	0.1
Backbone-Backbone	64	1.3	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	197	4.1	8	4.1	0.2	1	0.5	0.0
Sidechain-Sidechain	161	3.4	21	13.0	0.4	3	1.9	0.1
Long range ($i-j \geq 5$)	1648	34.6	172	10.4	3.6	32	1.9	0.7
Backbone-Backbone	191	4.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	626	13.1	64	10.2	1.3	14	2.2	0.3
Sidechain-Sidechain	831	17.4	108	13.0	2.3	18	2.2	0.4
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	76	1.6	1	1.3	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	4769	100.0	316	6.6	6.6	67	1.4	1.4
Backbone-Backbone	699	14.7	1	0.1	0.0	0	0.0	0.0
Backbone-Sidechain	2392	50.2	163	6.8	3.4	40	1.7	0.8
Sidechain-Sidechain	1678	35.2	152	9.1	3.2	27	1.6	0.6

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

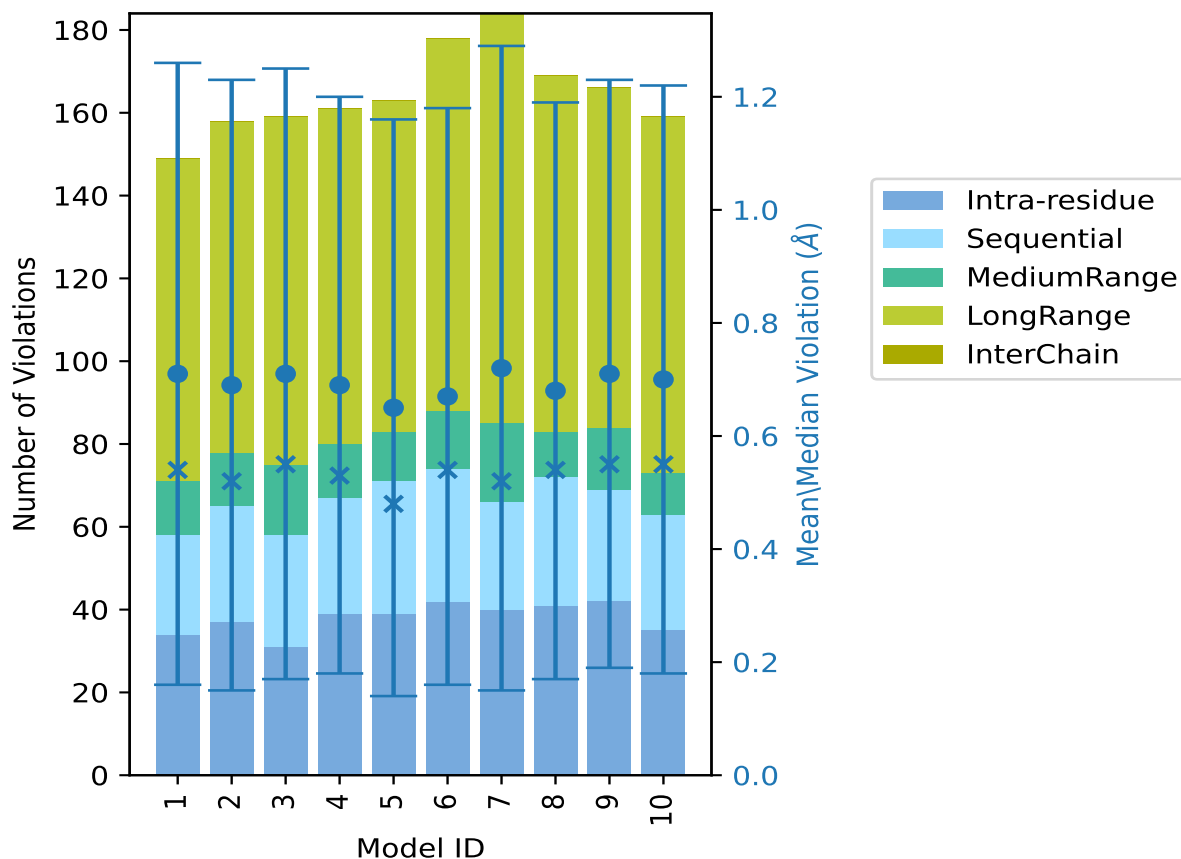
9.2 Distance violation statistics for each model [i](#)

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	34	24	13	78	0	149	0.71	2.64	0.55	0.54
2	37	28	13	80	0	158	0.69	2.3	0.54	0.52
3	31	27	17	84	0	159	0.71	2.53	0.54	0.55
4	39	28	13	81	0	161	0.69	2.2	0.51	0.53
5	39	32	12	80	0	163	0.65	2.44	0.51	0.48
6	42	32	14	90	0	178	0.67	2.29	0.51	0.54
7	40	26	19	99	0	184	0.72	2.76	0.57	0.52
8	41	31	11	86	0	169	0.68	2.33	0.51	0.54
9	42	27	15	82	0	166	0.71	2.36	0.52	0.55
10	35	28	10	86	0	159	0.7	2.41	0.52	0.55

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, 4378(IR:1643, SQ:866, MR:393, LR:1476, 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	%
17	4	5	39	0	65	1	10.0
6	3	7	29	0	45	2	20.0
5	3	2	15	0	25	3	30.0

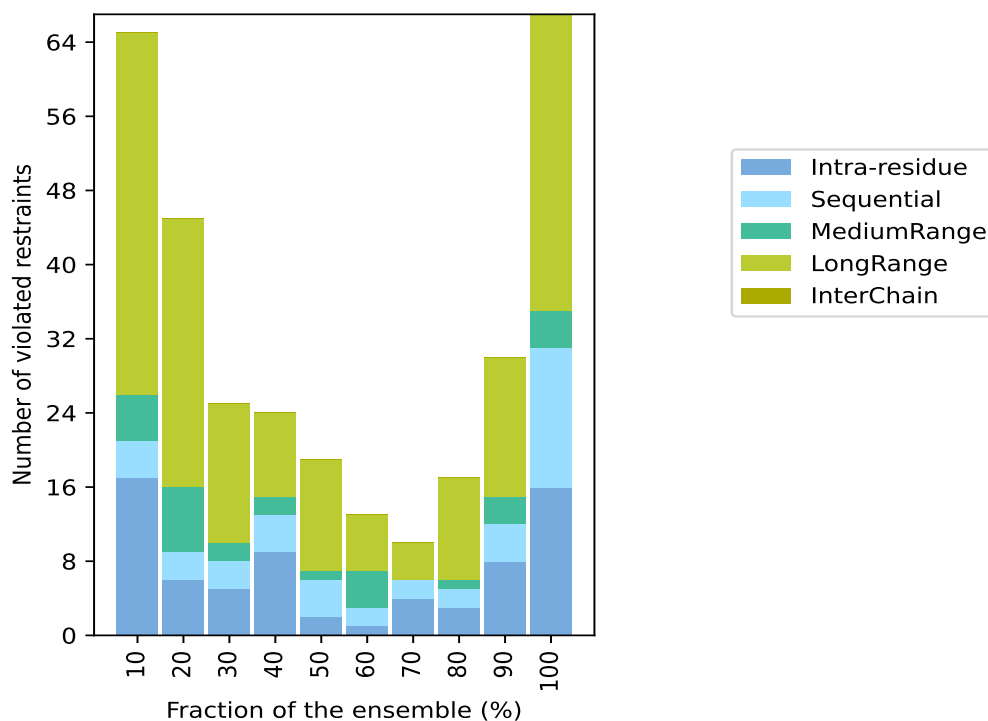
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
9	4	2	9	0	24	4	40.0
2	4	1	12	0	19	5	50.0
1	2	4	6	0	13	6	60.0
4	2	0	4	0	10	7	70.0
3	2	1	11	0	17	8	80.0
8	4	3	15	0	30	9	90.0
16	15	4	32	0	67	10	100.0

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](#)

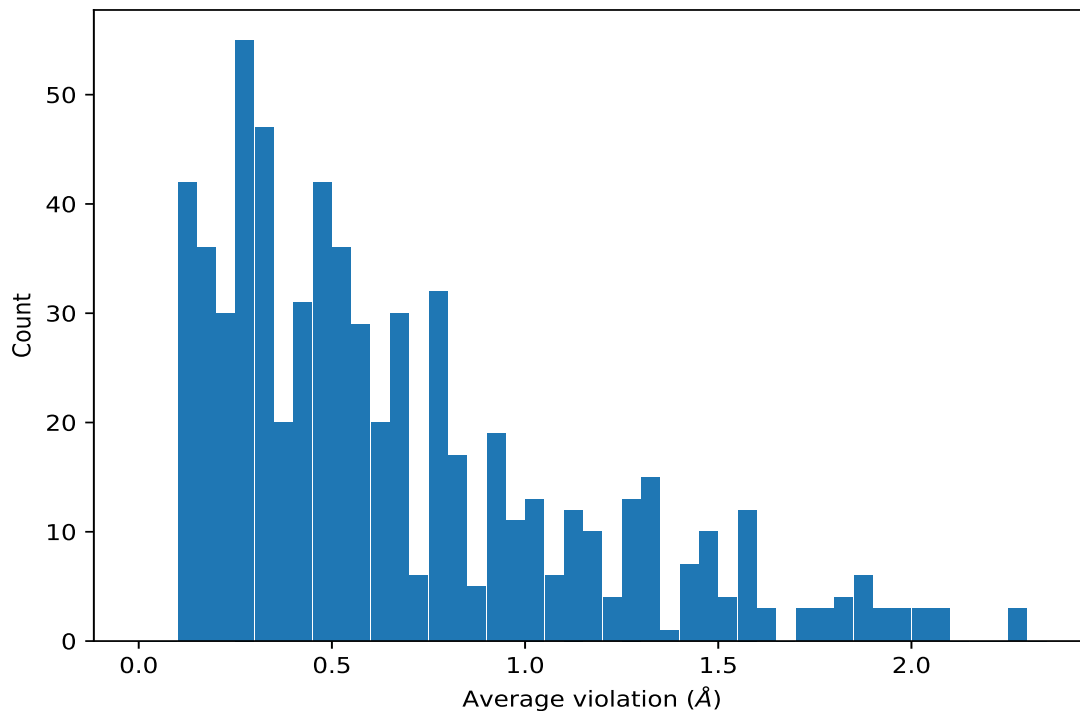


9.4 Most violated distance restraints in the ensemble [i](#)

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)
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	10	2.29	0.05	2.3
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	10	2.29	0.05	2.3
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	10	2.29	0.05	2.3
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	10	2.07	0.26	2.15
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	10	2.07	0.26	2.15
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	10	2.07	0.26	2.15
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	10	1.99	0.08	1.98
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	10	1.99	0.08	1.98
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	10	1.99	0.08	1.98
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	10	1.87	0.24	1.9
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	10	1.87	0.24	1.9
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	10	1.87	0.24	1.9
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	10	1.83	0.26	1.79
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	10	1.81	0.11	1.83
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	10	1.81	0.11	1.83

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	10	1.81	0.11	1.83
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	10	1.77	0.09	1.77
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	10	1.77	0.09	1.77
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	10	1.77	0.09	1.77
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	10	1.72	0.13	1.78
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	10	1.72	0.13	1.78
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	10	1.72	0.13	1.78
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	10	1.64	0.11	1.67
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	10	1.64	0.11	1.67
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	10	1.64	0.11	1.67
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	10	1.56	0.11	1.6
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	10	1.56	0.11	1.6
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	10	1.56	0.11	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	10	1.56	0.11	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	10	1.56	0.11	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	10	1.56	0.11	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	10	1.56	0.11	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	10	1.56	0.11	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	10	1.56	0.11	1.6
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	10	1.52	0.6	1.48
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	10	1.52	0.16	1.54
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	10	1.52	0.16	1.54
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	10	1.52	0.16	1.54
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	10	1.47	0.03	1.48
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	10	1.47	0.03	1.48
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	10	1.47	0.03	1.48
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	10	1.47	0.08	1.49
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	10	1.47	0.08	1.49
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	10	1.47	0.08	1.49
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	10	1.42	0.27	1.35
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	10	1.42	0.27	1.35
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	10	1.42	0.27	1.35
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	10	1.41	0.07	1.44
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	10	1.31	0.1	1.3
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	10	1.31	0.1	1.3
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	10	1.31	0.1	1.3
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	10	1.31	0.1	1.3
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	10	1.31	0.1	1.3
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	10	1.31	0.1	1.3
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	10	1.31	0.1	1.3
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	10	1.31	0.1	1.3
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	10	1.31	0.1	1.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	10	1.28	0.2	1.27
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	10	1.28	0.2	1.27
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	10	1.28	0.2	1.27
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	10	1.25	0.13	1.23
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	10	1.22	0.78	1.06
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	10	1.22	0.78	1.06
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	10	1.22	0.78	1.06
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	10	1.12	0.09	1.13
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	10	1.12	0.09	1.13
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	10	1.12	0.09	1.13
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	10	1.12	0.13	1.1
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	10	1.12	0.13	1.1
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	10	1.12	0.13	1.1
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	10	1.05	0.47	0.88
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	10	1.05	0.47	0.88
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	10	1.05	0.47	0.88
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	10	1.04	0.03	1.04
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	10	1.04	0.03	1.04
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	10	1.04	0.03	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	10	1.04	0.03	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	10	1.04	0.03	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	10	1.04	0.03	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	10	1.04	0.03	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	10	1.04	0.03	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	10	1.04	0.03	1.04
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	10	0.95	0.06	0.94
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	10	0.94	0.07	0.94
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	10	0.93	0.01	0.94
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	10	0.93	0.03	0.92
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	10	0.91	0.09	0.94
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	10	0.91	0.09	0.94
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	10	0.91	0.09	0.94
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	10	0.8	0.31	0.82
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	10	0.79	0.15	0.8
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	10	0.79	0.15	0.8
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	10	0.79	0.15	0.8
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	10	0.79	0.15	0.8
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	10	0.79	0.15	0.8
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	10	0.79	0.15	0.8
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	10	0.79	0.15	0.8
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	10	0.79	0.15	0.8
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	10	0.79	0.15	0.8

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	10	0.78	0.2	0.84
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	10	0.73	0.22	0.78
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	10	0.73	0.22	0.78
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	10	0.73	0.22	0.78
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	10	0.68	0.06	0.68
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	10	0.65	0.13	0.68
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	10	0.65	0.13	0.68
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	10	0.65	0.13	0.68
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	10	0.63	0.04	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	10	0.61	0.02	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	10	0.61	0.02	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	10	0.61	0.02	0.62
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	10	0.59	0.03	0.6
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	10	0.59	0.03	0.6
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	10	0.59	0.03	0.6
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	10	0.59	0.16	0.6
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	10	0.57	0.07	0.58
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	10	0.57	0.0	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	10	0.57	0.0	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	10	0.57	0.0	0.57
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	10	0.57	0.03	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	10	0.57	0.03	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	10	0.57	0.03	0.55
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	10	0.55	0.2	0.52
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	10	0.54	0.02	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	10	0.54	0.02	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	10	0.54	0.02	0.54
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	10	0.51	0.17	0.57
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	10	0.51	0.17	0.57
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	10	0.51	0.17	0.57
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	10	0.5	0.21	0.5
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	10	0.5	0.21	0.5
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	10	0.5	0.21	0.5
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	10	0.47	0.01	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	10	0.47	0.01	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	10	0.47	0.01	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	10	0.47	0.01	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	10	0.47	0.01	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	10	0.47	0.01	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	10	0.47	0.01	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	10	0.47	0.01	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	10	0.47	0.01	0.48

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	10	0.47	0.05	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	10	0.47	0.05	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	10	0.47	0.05	0.48
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	10	0.44	0.07	0.46
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	10	0.43	0.05	0.44
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	10	0.43	0.05	0.44
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	10	0.43	0.05	0.44
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	10	0.42	0.04	0.4
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	10	0.41	0.12	0.4
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	10	0.41	0.12	0.4
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	10	0.41	0.12	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	10	0.41	0.01	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	10	0.41	0.01	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	10	0.41	0.01	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	10	0.4	0.01	0.4
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	10	0.4	0.01	0.4
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	10	0.4	0.01	0.4
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	10	0.34	0.08	0.34
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	10	0.34	0.08	0.34
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	10	0.34	0.08	0.34
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	10	0.34	0.05	0.32
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	10	0.34	0.05	0.32
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	10	0.34	0.05	0.32
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	10	0.34	0.0	0.34
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	10	0.34	0.14	0.34
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	10	0.32	0.06	0.34
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	10	0.31	0.09	0.32
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	10	0.29	0.04	0.3
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	10	0.29	0.07	0.28
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	10	0.29	0.07	0.28
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	10	0.29	0.07	0.28
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	10	0.25	0.04	0.25
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	10	0.25	0.04	0.25
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	10	0.25	0.04	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	10	0.25	0.0	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	10	0.25	0.0	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	10	0.25	0.0	0.25
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	10	0.2	0.0	0.2
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	10	0.16	0.01	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	10	0.15	0.01	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	10	0.15	0.01	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	10	0.15	0.01	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	9	2.02	0.31	2.1
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	9	2.02	0.31	2.1
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	9	2.02	0.31	2.1
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	9	1.48	0.5	1.6
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	9	1.48	0.5	1.6
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	9	1.48	0.5	1.6
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	9	1.19	0.06	1.16
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	9	1.16	0.08	1.12
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	9	1.16	0.08	1.12
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	9	1.16	0.08	1.12
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	9	1.15	0.34	0.95
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	9	1.08	0.14	1.13
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	9	1.08	0.14	1.13
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	9	1.08	0.14	1.13
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	9	1.01	0.04	1.0
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	9	0.99	0.26	0.95
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	9	0.99	0.26	0.95
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	9	0.99	0.26	0.95
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	9	0.85	0.36	0.85
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	9	0.85	0.36	0.85
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	9	0.85	0.36	0.85
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	9	0.81	0.22	0.77
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	9	0.81	0.22	0.77
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	9	0.81	0.22	0.77
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	9	0.81	0.05	0.82
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	9	0.81	0.05	0.82
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	9	0.81	0.05	0.82
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	9	0.77	0.4	0.89
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	9	0.77	0.4	0.89
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	9	0.77	0.4	0.89
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	9	0.77	0.4	0.89
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	9	0.77	0.4	0.89
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	9	0.77	0.4	0.89
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	9	0.77	0.4	0.89
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	9	0.77	0.4	0.89
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	9	0.77	0.4	0.89
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	9	0.75	0.3	0.68
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	9	0.67	0.05	0.67
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	9	0.66	0.07	0.67
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	9	0.66	0.07	0.67
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	9	0.66	0.07	0.67
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	9	0.6	0.02	0.6

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	9	0.56	0.3	0.55
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	9	0.56	0.3	0.55
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	9	0.56	0.3	0.55
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	9	0.53	0.02	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	9	0.53	0.02	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	9	0.53	0.02	0.53
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	9	0.53	0.23	0.43
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	9	0.53	0.23	0.43
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	9	0.53	0.23	0.43
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	9	0.5	0.17	0.41
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	9	0.5	0.17	0.41
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	9	0.5	0.17	0.41
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	9	0.37	0.09	0.37
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	9	0.37	0.09	0.37
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	9	0.37	0.09	0.37
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	9	0.35	0.03	0.34
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	9	0.35	0.03	0.34
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	9	0.35	0.03	0.34
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	9	0.32	0.0	0.32
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	9	0.3	0.06	0.27
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	9	0.28	0.01	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	9	0.28	0.01	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	9	0.28	0.01	0.28
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	9	0.24	0.03	0.24
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	9	0.24	0.08	0.22
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	9	0.23	0.05	0.23
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	9	0.23	0.05	0.23
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	9	0.23	0.05	0.23
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	9	0.19	0.01	0.19
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	9	0.18	0.07	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	9	0.18	0.07	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	9	0.18	0.07	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	9	0.18	0.07	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	9	0.18	0.07	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	9	0.18	0.07	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	9	0.18	0.07	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	9	0.18	0.07	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	9	0.18	0.07	0.14
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	8	1.41	0.24	1.5
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	8	1.41	0.24	1.5
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	8	1.41	0.24	1.5
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	8	1.26	0.17	1.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	8	1.26	0.17	1.21
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	8	1.26	0.17	1.21
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	8	1.26	0.17	1.21
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	8	1.26	0.17	1.21
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	8	1.26	0.17	1.21
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	8	1.26	0.17	1.21
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	8	1.26	0.17	1.21
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	8	1.26	0.17	1.21
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	8	1.23	0.34	1.24
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	8	0.66	0.0	0.66
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	8	0.65	0.19	0.62
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	8	0.65	0.19	0.62
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	8	0.65	0.19	0.62
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	8	0.65	0.19	0.62
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	8	0.65	0.19	0.62
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	8	0.65	0.19	0.62
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	8	0.65	0.19	0.62
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	8	0.65	0.19	0.62
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	8	0.65	0.19	0.62
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	8	0.64	0.01	0.64
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	8	0.57	0.27	0.51
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	8	0.57	0.27	0.51
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	8	0.57	0.27	0.51
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	8	0.54	0.27	0.4
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	8	0.45	0.01	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	8	0.45	0.01	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	8	0.45	0.01	0.45
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	8	0.43	0.15	0.49
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	8	0.43	0.15	0.49
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	8	0.43	0.15	0.49
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	8	0.4	0.17	0.34
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	8	0.4	0.17	0.34
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	8	0.4	0.17	0.34
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	8	0.4	0.17	0.34
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	8	0.4	0.17	0.34
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	8	0.4	0.17	0.34
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	8	0.39	0.06	0.4
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	8	0.39	0.06	0.4
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	8	0.39	0.06	0.4
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	8	0.35	0.13	0.38
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	8	0.34	0.17	0.29
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	8	0.3	0.15	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	8	0.3	0.15	0.29
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	8	0.3	0.15	0.29
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	8	0.26	0.05	0.25
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	8	0.26	0.05	0.25
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	8	0.26	0.05	0.25
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	8	0.25	0.1	0.22
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	8	0.25	0.1	0.22
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	8	0.25	0.1	0.22
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD11	7	1.57	0.45	1.46
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD12	7	1.57	0.45	1.46
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD13	7	1.57	0.45	1.46
(1,3573)	1:148:A:LEU:H	1:148:A:LEU:HB3	7	0.83	0.07	0.8
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG21	7	0.71	0.26	0.73
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG22	7	0.71	0.26	0.73
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG23	7	0.71	0.26	0.73
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD2	7	0.67	0.02	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD3	7	0.67	0.02	0.68
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG11	7	0.55	0.63	0.3
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG12	7	0.55	0.63	0.3
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG13	7	0.55	0.63	0.3
(1,3948)	1:90:A:GLU:H	1:89:A:LYS:HB3	7	0.45	0.2	0.53
(1,2899)	1:23:A:SER:H	1:23:A:SER:HB3	7	0.45	0.06	0.44
(1,4655)	1:128:A:VAL:H	1:121:A:GLU:HB3	7	0.4	0.14	0.36
(1,4645)	1:153:A:ILE:H	1:154:A:LEU:HB3	7	0.17	0.02	0.17
(1,3641)	1:89:A:LYS:H	1:89:A:LYS:HB3	7	0.13	0.01	0.13
(1,2133)	1:57:A:GLN:HB3	1:55:A:GLU:HG3	6	1.38	0.6	1.27
(1,2594)	1:26:A:PHE:HB2	1:28:A:LEU:HG	6	0.97	0.23	0.95
(1,1844)	1:9:A:ILE:HG21	1:55:A:GLU:HB2	6	0.89	0.32	1.06
(1,1844)	1:9:A:ILE:HG22	1:55:A:GLU:HB2	6	0.89	0.32	1.06
(1,1844)	1:9:A:ILE:HG23	1:55:A:GLU:HB2	6	0.89	0.32	1.06
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB2	6	0.63	0.19	0.68
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB3	6	0.63	0.19	0.68
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB2	6	0.63	0.19	0.68
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB3	6	0.63	0.19	0.68
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB2	6	0.63	0.19	0.68
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB3	6	0.63	0.19	0.68
(1,3384)	1:40:A:LEU:H	1:23:A:SER:HB3	6	0.54	0.27	0.55
(1,3558)	1:55:A:GLU:H	1:55:A:GLU:HB2	6	0.54	0.03	0.55
(1,825)	1:49:A:VAL:HG11	1:15:A:SER:HA	6	0.34	0.15	0.34
(1,825)	1:49:A:VAL:HG12	1:15:A:SER:HA	6	0.34	0.15	0.34
(1,825)	1:49:A:VAL:HG13	1:15:A:SER:HA	6	0.34	0.15	0.34
(1,295)	1:118:A:VAL:HG11	1:155:A:PHE:HB2	6	0.28	0.11	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,295)	1:118:A:VAL:HG12	1:155:A:PHE:HB2	6	0.28	0.11	0.29
(1,295)	1:118:A:VAL:HG13	1:155:A:PHE:HB2	6	0.28	0.11	0.29
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG21	6	0.26	0.08	0.28
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG22	6	0.26	0.08	0.28
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG23	6	0.26	0.08	0.28
(1,814)	1:49:A:VAL:HG21	1:78:A:PRO:HD2	6	0.21	0.04	0.2
(1,814)	1:49:A:VAL:HG22	1:78:A:PRO:HD2	6	0.21	0.04	0.2
(1,814)	1:49:A:VAL:HG23	1:78:A:PRO:HD2	6	0.21	0.04	0.2
(1,4590)	1:47:A:ASP:H	1:46:A:LYS:HB3	6	0.19	0.04	0.2
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG21	6	0.19	0.09	0.15
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG22	6	0.19	0.09	0.15
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG23	6	0.19	0.09	0.15
(1,3430)	1:13:A:LEU:H	1:12:A:TYR:HB3	6	0.15	0.05	0.12
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD21	5	1.33	0.78	1.96
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD22	5	1.33	0.78	1.96
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD23	5	1.33	0.78	1.96
(1,331)	1:109:A:VAL:HG11	1:73:A:MET:HG2	5	1.02	0.54	0.96
(1,331)	1:109:A:VAL:HG12	1:73:A:MET:HG2	5	1.02	0.54	0.96
(1,331)	1:109:A:VAL:HG13	1:73:A:MET:HG2	5	1.02	0.54	0.96
(1,4303)	1:31:A:GLU:H	1:30:A:ASP:HB3	5	0.65	0.11	0.69
(1,2326)	1:28:A:LEU:HD11	1:35:A:ILE:HG13	5	0.63	0.25	0.76
(1,2326)	1:28:A:LEU:HD12	1:35:A:ILE:HG13	5	0.63	0.25	0.76
(1,2326)	1:28:A:LEU:HD13	1:35:A:ILE:HG13	5	0.63	0.25	0.76
(1,1762)	1:95:A:LEU:HD11	1:35:A:ILE:HG13	5	0.62	0.69	0.35
(1,1762)	1:95:A:LEU:HD12	1:35:A:ILE:HG13	5	0.62	0.69	0.35
(1,1762)	1:95:A:LEU:HD13	1:35:A:ILE:HG13	5	0.62	0.69	0.35
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD1	5	0.52	0.28	0.41
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD2	5	0.52	0.28	0.41
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD1	5	0.52	0.28	0.41
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD2	5	0.52	0.28	0.41
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD1	5	0.52	0.28	0.41
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD2	5	0.52	0.28	0.41
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG21	5	0.47	0.11	0.48
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG22	5	0.47	0.11	0.48
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG23	5	0.47	0.11	0.48
(1,2634)	1:73:A:MET:HG2	1:56:A:SER:HB3	5	0.47	0.29	0.51
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD21	5	0.35	0.02	0.35
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD22	5	0.35	0.02	0.35
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD23	5	0.35	0.02	0.35
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG21	5	0.34	0.08	0.34
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG22	5	0.34	0.08	0.34
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG23	5	0.34	0.08	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,479)	1:17:A:SER:HB3	1:156:A:LYS:HB2	5	0.31	0.22	0.23
(1,3196)	1:38:A:GLU:H	1:38:A:GLU:HG3	5	0.3	0.1	0.31
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD11	5	0.26	0.09	0.24
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD12	5	0.26	0.09	0.24
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD13	5	0.26	0.09	0.24
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD11	5	0.26	0.09	0.24
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD12	5	0.26	0.09	0.24
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD13	5	0.26	0.09	0.24
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD11	5	0.26	0.09	0.24
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD12	5	0.26	0.09	0.24
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD13	5	0.26	0.09	0.24
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG11	5	0.23	0.04	0.23
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG12	5	0.23	0.04	0.23
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG13	5	0.23	0.04	0.23
(1,735)	1:19:A:TYR:HB3	1:154:A:LEU:HB3	5	0.21	0.05	0.24
(1,1842)	1:9:A:ILE:HD11	1:55:A:GLU:HB3	5	0.2	0.03	0.22
(1,1842)	1:9:A:ILE:HD12	1:55:A:GLU:HB3	5	0.2	0.03	0.22
(1,1842)	1:9:A:ILE:HD13	1:55:A:GLU:HB3	5	0.2	0.03	0.22
(1,3961)	1:119:A:SER:H	1:155:A:PHE:HB3	5	0.2	0.07	0.19
(1,2861)	1:130:A:ILE:H	1:129:A:PHE:HB2	5	0.18	0.08	0.14
(1,4589)	1:47:A:ASP:H	1:46:A:LYS:HB2	5	0.17	0.06	0.15
(1,2397)	1:118:A:VAL:HG21	1:113:A:MET:HG2	4	1.14	0.76	1.18
(1,2397)	1:118:A:VAL:HG22	1:113:A:MET:HG2	4	1.14	0.76	1.18
(1,2397)	1:118:A:VAL:HG23	1:113:A:MET:HG2	4	1.14	0.76	1.18
(1,225)	1:83:A:TRP:HZ2	1:100:A:LYS:HE2	4	1.14	0.06	1.14
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD21	4	0.99	0.35	1.05
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD22	4	0.99	0.35	1.05
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD23	4	0.99	0.35	1.05
(1,2618)	1:3:A:ILE:HD11	1:56:A:SER:HB3	4	0.97	0.23	0.89
(1,2618)	1:3:A:ILE:HD12	1:56:A:SER:HB3	4	0.97	0.23	0.89
(1,2618)	1:3:A:ILE:HD13	1:56:A:SER:HB3	4	0.97	0.23	0.89
(1,4198)	1:9:A:ILE:H	1:9:A:ILE:HG13	4	0.78	0.08	0.73
(1,3605)	1:7:A:SER:H	1:55:A:GLU:HG2	4	0.77	0.4	0.88
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD21	4	0.7	0.03	0.7
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD22	4	0.7	0.03	0.7
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD23	4	0.7	0.03	0.7
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD11	4	0.61	0.0	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD12	4	0.61	0.0	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD13	4	0.61	0.0	0.61
(1,1937)	1:40:A:LEU:HD21	1:44:A:GLU:HB3	4	0.54	0.43	0.37
(1,1937)	1:40:A:LEU:HD22	1:44:A:GLU:HB3	4	0.54	0.43	0.37
(1,1937)	1:40:A:LEU:HD23	1:44:A:GLU:HB3	4	0.54	0.43	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4352)	1:55:A:GLU:H	1:55:A:GLU:HG2	4	0.46	0.14	0.4
(1,3136)	1:86:A:ALA:H	1:105:A:GLN:HB2	4	0.45	0.32	0.33
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD11	4	0.42	0.12	0.4
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD12	4	0.42	0.12	0.4
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD13	4	0.42	0.12	0.4
(1,379)	1:28:A:LEU:HD21	1:26:A:PHE:HB2	4	0.38	0.17	0.34
(1,379)	1:28:A:LEU:HD22	1:26:A:PHE:HB2	4	0.38	0.17	0.34
(1,379)	1:28:A:LEU:HD23	1:26:A:PHE:HB2	4	0.38	0.17	0.34
(1,2598)	1:30:A:ASP:HB3	1:31:A:GLU:HG3	4	0.32	0.27	0.18
(1,1114)	1:110:A:LEU:HB3	1:110:A:LEU:HG	4	0.27	0.03	0.26
(1,4309)	1:37:A:VAL:H	1:135:A:ASN:HB2	4	0.26	0.07	0.24
(1,373)	1:28:A:LEU:HD11	1:28:A:LEU:HB3	4	0.26	0.01	0.26
(1,373)	1:28:A:LEU:HD12	1:28:A:LEU:HB3	4	0.26	0.01	0.26
(1,373)	1:28:A:LEU:HD13	1:28:A:LEU:HB3	4	0.26	0.01	0.26
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG11	4	0.26	0.07	0.26
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG12	4	0.26	0.07	0.26
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG13	4	0.26	0.07	0.26
(1,2148)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	4	0.22	0.0	0.22
(1,1491)	1:94:A:GLU:HG3	1:94:A:GLU:HB3	4	0.2	0.0	0.2
(1,3561)	1:55:A:GLU:H	1:54:A:TYR:HB2	4	0.18	0.05	0.18
(1,4010)	1:131:A:GLY:H	1:140:A:ILE:HG12	4	0.16	0.04	0.17
(1,3718)	1:6:A:ILE:H	1:5:A:GLY:HA3	4	0.16	0.02	0.17
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	4	0.16	0.0	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	4	0.16	0.0	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	4	0.16	0.0	0.16
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG11	3	1.16	0.07	1.12
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG12	3	1.16	0.07	1.12
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG13	3	1.16	0.07	1.12
(1,1918)	1:135:A:ASN:HB2	1:37:A:VAL:HB	3	0.99	0.01	0.99
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD21	3	0.95	0.35	0.74
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD22	3	0.95	0.35	0.74
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD23	3	0.95	0.35	0.74
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD21	3	0.95	0.35	0.74
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD22	3	0.95	0.35	0.74
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD23	3	0.95	0.35	0.74
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD21	3	0.95	0.35	0.74
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD22	3	0.95	0.35	0.74
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD23	3	0.95	0.35	0.74
(1,2465)	1:138:A:ALA:HA	1:133:A:LYS:HG2	3	0.87	0.15	0.95
(1,1796)	1:37:A:VAL:HG11	1:135:A:ASN:HB2	3	0.85	0.01	0.86
(1,1796)	1:37:A:VAL:HG12	1:135:A:ASN:HB2	3	0.85	0.01	0.86
(1,1796)	1:37:A:VAL:HG13	1:135:A:ASN:HB2	3	0.85	0.01	0.86

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG21	3	0.81	0.08	0.76
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG22	3	0.81	0.08	0.76
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG23	3	0.81	0.08	0.76
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG21	3	0.78	0.01	0.78
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG22	3	0.78	0.01	0.78
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG23	3	0.78	0.01	0.78
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG21	3	0.53	0.03	0.52
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG22	3	0.53	0.03	0.52
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG23	3	0.53	0.03	0.52
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE1	3	0.51	0.15	0.6
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE2	3	0.51	0.15	0.6
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE3	3	0.51	0.15	0.6
(1,240)	1:140:A:ILE:HD11	1:131:A:GLY:HA2	3	0.45	0.44	0.18
(1,240)	1:140:A:ILE:HD12	1:131:A:GLY:HA2	3	0.45	0.44	0.18
(1,240)	1:140:A:ILE:HD13	1:131:A:GLY:HA2	3	0.45	0.44	0.18
(1,2444)	1:133:A:LYS:HG3	1:134:A:ASP:HB3	3	0.45	0.05	0.43
(1,1227)	1:122:A:CYS:HB3	1:128:A:VAL:HB	3	0.43	0.03	0.45
(1,1395)	1:71:A:MET:HE1	1:58:A:HIS:HB3	3	0.38	0.12	0.44
(1,1395)	1:71:A:MET:HE2	1:58:A:HIS:HB3	3	0.38	0.12	0.44
(1,1395)	1:71:A:MET:HE3	1:58:A:HIS:HB3	3	0.38	0.12	0.44
(1,358)	1:132:A:VAL:HG11	1:155:A:PHE:HE1	3	0.33	0.09	0.31
(1,358)	1:132:A:VAL:HG11	1:155:A:PHE:HE2	3	0.33	0.09	0.31
(1,358)	1:132:A:VAL:HG12	1:155:A:PHE:HE1	3	0.33	0.09	0.31
(1,358)	1:132:A:VAL:HG12	1:155:A:PHE:HE2	3	0.33	0.09	0.31
(1,358)	1:132:A:VAL:HG13	1:155:A:PHE:HE1	3	0.33	0.09	0.31
(1,358)	1:132:A:VAL:HG13	1:155:A:PHE:HE2	3	0.33	0.09	0.31
(1,3134)	1:86:A:ALA:H	1:105:A:GLN:HG3	3	0.31	0.03	0.31
(1,2105)	1:52:A:SER:HB3	1:8:A:PRO:HB2	3	0.3	0.11	0.24
(1,3785)	1:93:A:VAL:H	1:92:A:SER:HB2	3	0.28	0.08	0.28
(1,3649)	1:44:A:GLU:H	1:44:A:GLU:HG2	3	0.26	0.05	0.28
(1,238)	1:6:A:ILE:HD11	1:54:A:TYR:HB2	3	0.25	0.13	0.16
(1,238)	1:6:A:ILE:HD12	1:54:A:TYR:HB2	3	0.25	0.13	0.16
(1,238)	1:6:A:ILE:HD13	1:54:A:TYR:HB2	3	0.25	0.13	0.16
(1,4641)	1:135:A:ASN:H	1:134:A:ASP:HB2	3	0.24	0.0	0.24
(1,894)	1:140:A:ILE:HD11	1:131:A:GLY:HA3	3	0.14	0.01	0.14
(1,894)	1:140:A:ILE:HD12	1:131:A:GLY:HA3	3	0.14	0.01	0.14
(1,894)	1:140:A:ILE:HD13	1:131:A:GLY:HA3	3	0.14	0.01	0.14
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG21	3	0.14	0.03	0.12
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG22	3	0.14	0.03	0.12
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG23	3	0.14	0.03	0.12
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG21	3	0.14	0.03	0.12
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG22	3	0.14	0.03	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG23	3	0.14	0.03	0.12
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG21	3	0.14	0.03	0.12
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG22	3	0.14	0.03	0.12
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG23	3	0.14	0.03	0.12
(1,2775)	1:155:A:PHE:H	1:155:A:PHE:HB3	3	0.13	0.01	0.14
(1,3306)	1:154:A:LEU:H	1:154:A:LEU:HB3	3	0.12	0.01	0.11
(1,556)	1:3:A:ILE:HD11	1:3:A:ILE:HA	3	0.11	0.0	0.11
(1,556)	1:3:A:ILE:HD12	1:3:A:ILE:HA	3	0.11	0.0	0.11
(1,556)	1:3:A:ILE:HD13	1:3:A:ILE:HA	3	0.11	0.0	0.11
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD11	2	1.95	0.05	1.95
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD12	2	1.95	0.05	1.95
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD13	2	1.95	0.05	1.95
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD21	2	1.87	0.05	1.87
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD22	2	1.87	0.05	1.87
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD23	2	1.87	0.05	1.87
(1,3313)	1:41:A:LYS:H	1:44:A:GLU:HG2	2	1.46	0.08	1.46
(1,378)	1:28:A:LEU:HD11	1:26:A:PHE:HB2	2	1.31	0.19	1.31
(1,378)	1:28:A:LEU:HD12	1:26:A:PHE:HB2	2	1.31	0.19	1.31
(1,378)	1:28:A:LEU:HD13	1:26:A:PHE:HB2	2	1.31	0.19	1.31
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD21	2	1.19	0.06	1.19
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD22	2	1.19	0.06	1.19
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD23	2	1.19	0.06	1.19
(1,1217)	1:154:A:LEU:HB2	1:117:A:CYS:HB3	2	1.14	1.0	1.14
(1,947)	1:13:A:LEU:HD21	1:50:A:LEU:HA	2	0.94	0.2	0.94
(1,947)	1:13:A:LEU:HD22	1:50:A:LEU:HA	2	0.94	0.2	0.94
(1,947)	1:13:A:LEU:HD23	1:50:A:LEU:HA	2	0.94	0.2	0.94
(1,1987)	1:113:A:MET:HG2	1:154:A:LEU:HA	2	0.86	0.09	0.86
(1,364)	1:25:A:THR:HG21	1:23:A:SER:HB2	2	0.78	0.03	0.78
(1,364)	1:25:A:THR:HG22	1:23:A:SER:HB2	2	0.78	0.03	0.78
(1,364)	1:25:A:THR:HG23	1:23:A:SER:HB2	2	0.78	0.03	0.78
(1,1897)	1:28:A:LEU:HD21	1:82:A:PHE:HZ	2	0.78	0.05	0.78
(1,1897)	1:28:A:LEU:HD22	1:82:A:PHE:HZ	2	0.78	0.05	0.78
(1,1897)	1:28:A:LEU:HD23	1:82:A:PHE:HZ	2	0.78	0.05	0.78
(1,3950)	1:90:A:GLU:H	1:90:A:GLU:HG3	2	0.78	0.04	0.78
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD11	2	0.7	0.05	0.7
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD12	2	0.7	0.05	0.7
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD13	2	0.7	0.05	0.7
(1,1847)	1:9:A:ILE:HG21	1:55:A:GLU:HG2	2	0.67	0.17	0.67
(1,1847)	1:9:A:ILE:HG22	1:55:A:GLU:HG2	2	0.67	0.17	0.67
(1,1847)	1:9:A:ILE:HG23	1:55:A:GLU:HG2	2	0.67	0.17	0.67
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD11	2	0.6	0.01	0.6
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD12	2	0.6	0.01	0.6

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD13	2	0.6	0.01	0.6
(1,2291)	1:88:A:ASN:HB3	1:125:A:ASP:HB3	2	0.57	0.13	0.57
(1,1126)	1:110:A:LEU:HD11	1:120:A:PHE:HA	2	0.55	0.13	0.55
(1,1126)	1:110:A:LEU:HD12	1:120:A:PHE:HA	2	0.55	0.13	0.55
(1,1126)	1:110:A:LEU:HD13	1:120:A:PHE:HA	2	0.55	0.13	0.55
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD11	2	0.48	0.16	0.48
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD12	2	0.48	0.16	0.48
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD13	2	0.48	0.16	0.48
(1,1865)	1:16:A:LEU:HD11	1:155:A:PHE:HZ	2	0.48	0.06	0.48
(1,1865)	1:16:A:LEU:HD12	1:155:A:PHE:HZ	2	0.48	0.06	0.48
(1,1865)	1:16:A:LEU:HD13	1:155:A:PHE:HZ	2	0.48	0.06	0.48
(1,2641)	1:86:A:ALA:HB1	1:88:A:ASN:HB3	2	0.48	0.1	0.48
(1,2641)	1:86:A:ALA:HB2	1:88:A:ASN:HB3	2	0.48	0.1	0.48
(1,2641)	1:86:A:ALA:HB3	1:88:A:ASN:HB3	2	0.48	0.1	0.48
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG21	2	0.46	0.15	0.46
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG22	2	0.46	0.15	0.46
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG23	2	0.46	0.15	0.46
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD11	2	0.45	0.08	0.45
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD12	2	0.45	0.08	0.45
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD13	2	0.45	0.08	0.45
(1,2072)	1:86:A:ALA:HB1	1:105:A:GLN:HG3	2	0.4	0.2	0.4
(1,2072)	1:86:A:ALA:HB2	1:105:A:GLN:HG3	2	0.4	0.2	0.4
(1,2072)	1:86:A:ALA:HB3	1:105:A:GLN:HG3	2	0.4	0.2	0.4
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD21	2	0.39	0.02	0.39
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD22	2	0.39	0.02	0.39
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD23	2	0.39	0.02	0.39
(1,1523)	1:118:A:VAL:HG11	1:156:A:LYS:HA	2	0.38	0.26	0.38
(1,1523)	1:118:A:VAL:HG12	1:156:A:LYS:HA	2	0.38	0.26	0.38
(1,1523)	1:118:A:VAL:HG13	1:156:A:LYS:HA	2	0.38	0.26	0.38
(1,1892)	1:28:A:LEU:HB2	1:33:A:TYR:HE1	2	0.36	0.11	0.36
(1,1892)	1:28:A:LEU:HB2	1:33:A:TYR:HE2	2	0.36	0.11	0.36
(1,868)	1:118:A:VAL:HA	1:113:A:MET:HG2	2	0.34	0.0	0.34
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD11	2	0.33	0.01	0.33
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD12	2	0.33	0.01	0.33
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD13	2	0.33	0.01	0.33
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD11	2	0.33	0.01	0.33
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD12	2	0.33	0.01	0.33
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD13	2	0.33	0.01	0.33
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD11	2	0.33	0.01	0.33
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD12	2	0.33	0.01	0.33
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD13	2	0.33	0.01	0.33
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD11	2	0.32	0.02	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD12	2	0.32	0.02	0.32
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD13	2	0.32	0.02	0.32
(1,3959)	1:119:A:SER:H	1:113:A:MET:HG2	2	0.28	0.03	0.28
(1,4225)	1:53:A:TYR:H	1:8:A:PRO:HB3	2	0.25	0.09	0.25
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG21	2	0.22	0.04	0.22
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG22	2	0.22	0.04	0.22
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG23	2	0.22	0.04	0.22
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD11	2	0.22	0.07	0.22
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD12	2	0.22	0.07	0.22
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD13	2	0.22	0.07	0.22
(1,3365)	1:39:A:ASP:H	1:39:A:ASP:HB3	2	0.2	0.03	0.2
(1,274)	1:153:A:ILE:HD11	1:129:A:PHE:HB3	2	0.2	0.04	0.2
(1,274)	1:153:A:ILE:HD12	1:129:A:PHE:HB3	2	0.2	0.04	0.2
(1,274)	1:153:A:ILE:HD13	1:129:A:PHE:HB3	2	0.2	0.04	0.2
(1,3414)	1:45:A:LYS:H	1:45:A:LYS:HG2	2	0.18	0.01	0.18
(1,4226)	1:53:A:TYR:H	1:9:A:ILE:HG13	2	0.17	0.05	0.17
(1,4620)	1:56:A:SER:H	1:55:A:GLU:HB3	2	0.17	0.01	0.17
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD21	2	0.16	0.06	0.16
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD22	2	0.16	0.06	0.16
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD23	2	0.16	0.06	0.16
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD21	2	0.16	0.06	0.16
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD22	2	0.16	0.06	0.16
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD23	2	0.16	0.06	0.16
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD21	2	0.16	0.06	0.16
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD22	2	0.16	0.06	0.16
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD23	2	0.16	0.06	0.16
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD11	2	0.15	0.02	0.15
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD12	2	0.15	0.02	0.15
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD13	2	0.15	0.02	0.15
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD11	2	0.15	0.02	0.15
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD12	2	0.15	0.02	0.15
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD13	2	0.15	0.02	0.15
(1,2628)	1:37:A:VAL:HG11	1:24:A:ILE:HG12	2	0.14	0.02	0.14
(1,2628)	1:37:A:VAL:HG12	1:24:A:ILE:HG12	2	0.14	0.02	0.14
(1,2628)	1:37:A:VAL:HG13	1:24:A:ILE:HG12	2	0.14	0.02	0.14
(1,2852)	1:130:A:ILE:H	1:130:A:ILE:HG12	2	0.14	0.04	0.14
(1,2630)	1:37:A:VAL:HG11	1:22:A:GLN:HB3	2	0.13	0.01	0.13
(1,2630)	1:37:A:VAL:HG12	1:22:A:GLN:HB3	2	0.13	0.01	0.13
(1,2630)	1:37:A:VAL:HG13	1:22:A:GLN:HB3	2	0.13	0.01	0.13
(1,2463)	1:138:A:ALA:HB1	1:133:A:LYS:HG2	2	0.12	0.02	0.12
(1,2463)	1:138:A:ALA:HB2	1:133:A:LYS:HG2	2	0.12	0.02	0.12
(1,2463)	1:138:A:ALA:HB3	1:133:A:LYS:HG2	2	0.12	0.02	0.12

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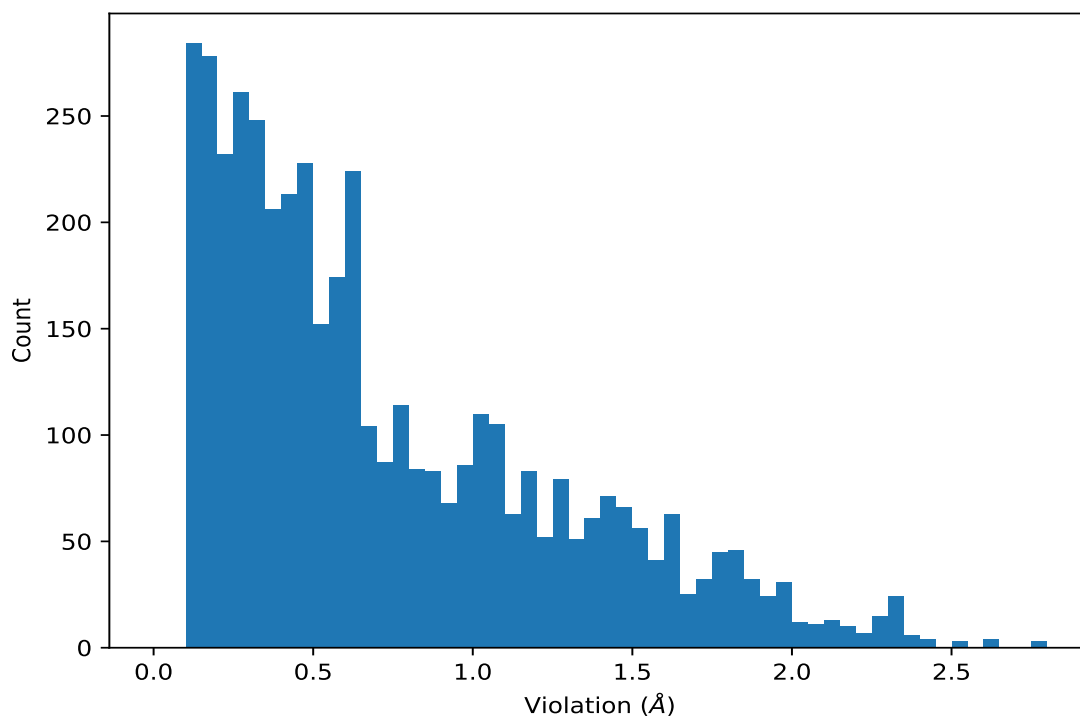
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4068)	1:10:A:THR:H	1:9:A:ILE:HG13	2	0.11	0.01	0.11
(1,2605)	1:76:A:LEU:HD11	1:74:A:VAL:HB	2	0.11	0.0	0.11
(1,2605)	1:76:A:LEU:HD12	1:74:A:VAL:HB	2	0.11	0.0	0.11
(1,2605)	1:76:A:LEU:HD13	1:74:A:VAL:HB	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	7	2.76
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	7	2.76
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	7	2.76
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	1	2.64
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD11	7	2.64
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD12	7	2.64
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD13	7	2.64
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	3	2.53
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	3	2.53
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	3	2.53
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	5	2.44
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	5	2.44
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	5	2.44
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	10	2.41
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	7	2.36
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	7	2.36
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	7	2.36
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	9	2.36
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	9	2.36
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	9	2.36
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	1	2.34
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	1	2.34
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	1	2.34
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	8	2.33
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	8	2.33
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	8	2.33
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	3	2.32
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	3	2.32
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	3	2.32
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	9	2.31
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	9	2.31
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	9	2.31
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	1	2.31
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	1	2.31
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	1	2.31
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	2	2.3
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	2	2.3
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	2	2.3
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	7	2.3
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	7	2.3
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	7	2.3
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	2	2.3
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	2	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	2	2.3
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	6	2.29
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	6	2.29
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	6	2.29
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	3	2.29
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	3	2.29
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	3	2.29
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	5	2.27
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	5	2.27
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	5	2.27
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	2	2.26
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	2	2.26
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	2	2.26
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	10	2.25
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	10	2.25
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	10	2.25
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	9	2.22
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	9	2.22
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	9	2.22
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	5	2.21
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	5	2.21
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	5	2.21
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	4	2.2
(1,2035)	1:74:A:VAL:HG21	1:108:A:PHE:HB3	4	2.19
(1,2035)	1:74:A:VAL:HG22	1:108:A:PHE:HB3	4	2.19
(1,2035)	1:74:A:VAL:HG23	1:108:A:PHE:HB3	4	2.19
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	9	2.19
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	9	2.19
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	9	2.19
(1,2133)	1:57:A:GLN:HB3	1:55:A:GLU:HG3	8	2.18
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	6	2.17
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	6	2.17
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	6	2.17
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	5	2.14
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	5	2.14
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	5	2.14
(1,1217)	1:154:A:LEU:HB2	1:117:A:CYS:HB3	1	2.13
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	10	2.1
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	10	2.1
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	10	2.1
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG11	2	2.1
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG12	2	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG13	2	2.1
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	2	2.1
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	2	2.1
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	2	2.1
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	8	2.08
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	8	2.08
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	8	2.08
(1,2133)	1:57:A:GLN:HB3	1:55:A:GLU:HG3	6	2.07
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	2	2.07
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	2	2.07
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	2	2.07
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	2	2.07
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	2	2.07
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	2	2.07
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	3	2.05
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	3	2.04
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	3	2.04
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	3	2.04
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	10	2.02
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	10	2.02
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	10	2.02
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	5	2.01
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	5	2.01
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	5	2.01
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD11	6	2.01
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD12	6	2.01
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD13	6	2.01
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	1	1.99
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	1	1.99
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	1	1.99
(1,1762)	1:95:A:LEU:HD11	1:35:A:ILE:HG13	10	1.99
(1,1762)	1:95:A:LEU:HD12	1:35:A:ILE:HG13	10	1.99
(1,1762)	1:95:A:LEU:HD13	1:35:A:ILE:HG13	10	1.99
(1,2397)	1:118:A:VAL:HG21	1:113:A:MET:HG2	7	1.98
(1,2397)	1:118:A:VAL:HG22	1:113:A:MET:HG2	7	1.98
(1,2397)	1:118:A:VAL:HG23	1:113:A:MET:HG2	7	1.98
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD21	9	1.98
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD22	9	1.98
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD23	9	1.98
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	7	1.98
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	4	1.97
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	4	1.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	4	1.97
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD21	3	1.97
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD22	3	1.97
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD23	3	1.97
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	7	1.96
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	7	1.96
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	7	1.96
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD21	8	1.96
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD22	8	1.96
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD23	8	1.96
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	8	1.95
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	8	1.95
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	8	1.95
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	7	1.95
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	7	1.95
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	7	1.95
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	5	1.94
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	5	1.94
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	5	1.94
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	9	1.93
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	9	1.93
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	9	1.93
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	7	1.93
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	7	1.93
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	7	1.93
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	2	1.92
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	2	1.92
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	2	1.92
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD21	7	1.92
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD22	7	1.92
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD23	7	1.92
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	6	1.91
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	6	1.91
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	6	1.91
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	6	1.9
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	6	1.9
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	6	1.9
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD11	7	1.9
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD12	7	1.9
(1,970)	1:155:A:PHE:HB2	1:16:A:LEU:HD13	7	1.9
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	1	1.89
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	7	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	7	1.88
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	7	1.88
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	4	1.88
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	4	1.88
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	4	1.88
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG21	8	1.87
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG22	8	1.87
(1,1919)	1:22:A:GLN:HB2	1:37:A:VAL:HG23	8	1.87
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	8	1.86
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	8	1.86
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	8	1.86
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	9	1.86
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	9	1.86
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	9	1.86
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	6	1.86
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	6	1.86
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	6	1.86
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	7	1.86
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	7	1.86
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	7	1.86
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	9	1.86
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	9	1.86
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	9	1.86
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	4	1.86
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	4	1.86
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	4	1.86
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	9	1.85
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	9	1.85
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	9	1.85
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	8	1.85
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	1	1.83
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	1	1.83
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	1	1.83
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	3	1.83
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	3	1.83
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	3	1.83
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	1	1.83
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	1	1.83
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	1	1.83
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	8	1.82
(1,2397)	1:118:A:VAL:HG21	1:113:A:MET:HG2	3	1.82
(1,2397)	1:118:A:VAL:HG22	1:113:A:MET:HG2	3	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2397)	1:118:A:VAL:HG23	1:113:A:MET:HG2	3	1.82
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	10	1.82
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	10	1.82
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	10	1.82
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD21	3	1.82
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD22	3	1.82
(1,1699)	1:31:A:GLU:HA	1:28:A:LEU:HD23	3	1.82
(1,1765)	1:95:A:LEU:HD11	1:26:A:PHE:HE1	10	1.81
(1,1765)	1:95:A:LEU:HD11	1:26:A:PHE:HE2	10	1.81
(1,1765)	1:95:A:LEU:HD12	1:26:A:PHE:HE1	10	1.81
(1,1765)	1:95:A:LEU:HD12	1:26:A:PHE:HE2	10	1.81
(1,1765)	1:95:A:LEU:HD13	1:26:A:PHE:HE1	10	1.81
(1,1765)	1:95:A:LEU:HD13	1:26:A:PHE:HE2	10	1.81
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	10	1.81
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	10	1.81
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	10	1.81
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	3	1.8
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	3	1.8
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	3	1.8
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	4	1.8
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	4	1.8
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	4	1.8
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	5	1.8
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	5	1.8
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	5	1.8
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	2	1.8
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	2	1.8
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	2	1.8
(1,500)	1:130:A:ILE:HA	1:139:A:LEU:HD21	7	1.8
(1,500)	1:130:A:ILE:HA	1:139:A:LEU:HD22	7	1.8
(1,500)	1:130:A:ILE:HA	1:139:A:LEU:HD23	7	1.8
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	1	1.8
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	1	1.8
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	1	1.8
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	4	1.79
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	4	1.79
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	4	1.79
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	7	1.79
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	7	1.79
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	7	1.79
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	4	1.79
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	4	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	4	1.79
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	7	1.79
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	7	1.79
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	7	1.79
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	2	1.78
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	2	1.78
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	2	1.78
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	1	1.78
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	1	1.78
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	1	1.78
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	6	1.78
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	6	1.78
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	6	1.78
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	3	1.78
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	3	1.78
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	3	1.78
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	3	1.78
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	3	1.78
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	3	1.78
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	3	1.78
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	3	1.78
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	3	1.78
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	10	1.77
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	10	1.77
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	10	1.77
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	4	1.77
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	4	1.77
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	4	1.77
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	8	1.77
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	8	1.77
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	8	1.77
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	2	1.76
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	2	1.76
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	2	1.76
(1,2293)	1:139:A:LEU:HD11	1:88:A:ASN:HA	7	1.75
(1,2293)	1:139:A:LEU:HD12	1:88:A:ASN:HA	7	1.75
(1,2293)	1:139:A:LEU:HD13	1:88:A:ASN:HA	7	1.75
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	1	1.74
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	1	1.74
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	1	1.74
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	5	1.74
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	5	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	5	1.74
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	9	1.74
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	9	1.74
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	9	1.74
(1,331)	1:109:A:VAL:HG11	1:73:A:MET:HG2	10	1.74
(1,331)	1:109:A:VAL:HG12	1:73:A:MET:HG2	10	1.74
(1,331)	1:109:A:VAL:HG13	1:73:A:MET:HG2	10	1.74
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	5	1.73
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	5	1.73
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	5	1.73
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	10	1.73
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	10	1.73
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	10	1.73
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	5	1.73
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	6	1.72
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	6	1.72
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	6	1.72
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	2	1.71
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	5	1.71
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	5	1.71
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	5	1.71
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	10	1.71
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	10	1.71
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	10	1.71
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	7	1.7
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	7	1.7
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	7	1.7
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	8	1.69
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	8	1.69
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	8	1.69
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	3	1.69
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	3	1.69
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	3	1.69
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG11	6	1.69
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG12	6	1.69
(1,217)	1:155:A:PHE:HZ	1:132:A:VAL:HG13	6	1.69
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	9	1.68
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	9	1.68
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	9	1.68
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	3	1.68
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	3	1.68
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	3	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	4	1.68
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	10	1.68
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	10	1.68
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	10	1.68
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	2	1.67
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	2	1.67
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	2	1.67
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	4	1.66
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	4	1.66
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	4	1.66
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	9	1.64
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	9	1.64
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	9	1.64
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	9	1.64
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	9	1.64
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	9	1.64
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	9	1.64
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	9	1.64
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	9	1.64
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	4	1.63
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	4	1.63
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	4	1.63
(1,1361)	1:144:A:SER:HA	1:148:A:LEU:HD21	6	1.63
(1,1361)	1:144:A:SER:HA	1:148:A:LEU:HD22	6	1.63
(1,1361)	1:144:A:SER:HA	1:148:A:LEU:HD23	6	1.63
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	4	1.63
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	10	1.62
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	10	1.62
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	10	1.62
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	10	1.62
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	10	1.62
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	10	1.62
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	10	1.62
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	10	1.62
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	10	1.62
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	1	1.62
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	1	1.62
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	1	1.62
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	6	1.62
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	6	1.62
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	6	1.62
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	6	1.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	6	1.62
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	6	1.62
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	6	1.62
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	6	1.62
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	6	1.62
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	6	1.62
(1,1794)	1:37:A:VAL:HG11	1:136:A:HIS:HA	3	1.61
(1,1794)	1:37:A:VAL:HG12	1:136:A:HIS:HA	3	1.61
(1,1794)	1:37:A:VAL:HG13	1:136:A:HIS:HA	3	1.61
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	1	1.61
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	3	1.6
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	3	1.6
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	3	1.6
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	7	1.6
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	7	1.6
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	7	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	7	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	7	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	7	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	7	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	7	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	7	1.6
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	8	1.6
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	8	1.6
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	8	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	8	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	8	1.6
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	8	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	8	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	8	1.6
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	8	1.6
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	4	1.59
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	4	1.59
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	4	1.59
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	7	1.59
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	7	1.59
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	7	1.59
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	10	1.59
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	10	1.59
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	10	1.59
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	10	1.59
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	10	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	10	1.59
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	10	1.59
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	10	1.59
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	10	1.59
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	8	1.58
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	8	1.58
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	8	1.58
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	1	1.57
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	1	1.57
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	1	1.57
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	5	1.57
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	8	1.57
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	8	1.57
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	8	1.57
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	6	1.56
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	6	1.56
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	6	1.56
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	6	1.55
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	6	1.55
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	6	1.55
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	2	1.55
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	2	1.55
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	2	1.55
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	9	1.55
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	9	1.55
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	9	1.55
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	3	1.55
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	3	1.55
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	3	1.55
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	9	1.55
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG11	5	1.54
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG12	5	1.54
(1,3839)	1:136:A:HIS:H	1:37:A:VAL:HG13	5	1.54
(1,3313)	1:41:A:LYS:H	1:44:A:GLU:HG2	4	1.54
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	7	1.54
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	3	1.54
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	3	1.54
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	3	1.54
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	3	1.54
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	3	1.54
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	3	1.54
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	10	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	10	1.54
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	10	1.54
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	6	1.53
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	6	1.53
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	6	1.53
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	4	1.53
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	4	1.53
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	4	1.53
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	4	1.53
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	4	1.53
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	4	1.53
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	4	1.53
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	4	1.53
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	4	1.53
(1,509)	1:77:A:SER:HB2	1:50:A:LEU:HB2	2	1.53
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	6	1.53
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	6	1.53
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	6	1.53
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	9	1.52
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	9	1.52
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	9	1.52
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	9	1.52
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	6	1.51
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	6	1.51
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	6	1.51
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	8	1.51
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	8	1.51
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	8	1.51
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	6	1.51
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	6	1.51
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	6	1.51
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	6	1.51
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	6	1.51
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	6	1.51
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	6	1.51
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	6	1.51
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	6	1.51
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	3	1.5
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	10	1.5
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	10	1.5
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	10	1.5
(1,378)	1:28:A:LEU:HD11	1:26:A:PHE:HB2	7	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,378)	1:28:A:LEU:HD12	1:26:A:PHE:HB2	7	1.5
(1,378)	1:28:A:LEU:HD13	1:26:A:PHE:HB2	7	1.5
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	5	1.49
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	5	1.49
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	5	1.49
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	8	1.49
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	8	1.49
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	8	1.49
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	10	1.49
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	10	1.49
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	10	1.49
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	10	1.49
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	1	1.49
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	1	1.49
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	1	1.49
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	1	1.49
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	1	1.49
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	1	1.49
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	1	1.49
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	1	1.49
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	1	1.49
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	4	1.48
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	8	1.48
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	10	1.48
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	10	1.48
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	10	1.48
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	8	1.48
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	8	1.48
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	8	1.48
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	7	1.48
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	7	1.48
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	7	1.48
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	9	1.48
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	9	1.48
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	9	1.48
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	5	1.47
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG21	8	1.47
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG22	8	1.47
(1,2597)	1:22:A:GLN:HB3	1:37:A:VAL:HG23	8	1.47
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD11	1	1.47
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD12	1	1.47
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD13	1	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	1	1.47
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	1	1.47
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	1	1.47
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	4	1.47
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	4	1.47
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	4	1.47
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	6	1.47
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	6	1.47
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	6	1.47
(1,1755)	1:109:A:VAL:HG11	1:54:A:TYR:HB3	5	1.47
(1,1755)	1:109:A:VAL:HG12	1:54:A:TYR:HB3	5	1.47
(1,1755)	1:109:A:VAL:HG13	1:54:A:TYR:HB3	5	1.47
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	9	1.47
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	9	1.47
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	9	1.47
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	10	1.46
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD11	6	1.46
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD12	6	1.46
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD13	6	1.46
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD11	10	1.46
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD12	10	1.46
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD13	10	1.46
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	7	1.45
(1,294)	1:118:A:VAL:HG11	1:155:A:PHE:HB3	3	1.45
(1,294)	1:118:A:VAL:HG12	1:155:A:PHE:HB3	3	1.45
(1,294)	1:118:A:VAL:HG13	1:155:A:PHE:HB3	3	1.45
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD21	6	1.44
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD22	6	1.44
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD23	6	1.44
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD21	6	1.44
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD22	6	1.44
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD23	6	1.44
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD21	6	1.44
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD22	6	1.44
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD23	6	1.44
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	7	1.44
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	7	1.44
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	7	1.44
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	7	1.44
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	7	1.44
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	7	1.44
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	7	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	7	1.44
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	7	1.44
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	3	1.43
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	3	1.43
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	3	1.43
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	8	1.43
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	8	1.43
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	8	1.43
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	4	1.42
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	8	1.41
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	2	1.41
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	3	1.41
(1,2502)	1:142:A:VAL:HG11	1:140:A:ILE:HB	1	1.41
(1,2502)	1:142:A:VAL:HG12	1:140:A:ILE:HB	1	1.41
(1,2502)	1:142:A:VAL:HG13	1:140:A:ILE:HB	1	1.41
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG21	2	1.41
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG22	2	1.41
(1,2446)	1:133:A:LYS:HA	1:132:A:VAL:HG23	2	1.41
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	2	1.41
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	2	1.41
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	2	1.41
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	7	1.41
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	7	1.41
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	7	1.41
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD21	9	1.41
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD22	9	1.41
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD23	9	1.41
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	5	1.41
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	5	1.41
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	5	1.41
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	5	1.41
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	5	1.41
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	5	1.41
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	5	1.41
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	5	1.41
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	5	1.41
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	9	1.41
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	5	1.4
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	5	1.4
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	5	1.4
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	5	1.4
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	5	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	5	1.4
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	5	1.4
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	5	1.4
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	5	1.4
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	1	1.4
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	1	1.4
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	1	1.4
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	6	1.4
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	6	1.4
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	6	1.4
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	1	1.4
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	1	1.4
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	1	1.4
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	9	1.39
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD11	9	1.39
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD12	9	1.39
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD13	9	1.39
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	10	1.39
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	10	1.39
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	10	1.39
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	6	1.38
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	4	1.38
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	4	1.38
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	4	1.38
(1,331)	1:109:A:VAL:HG11	1:73:A:MET:HG2	9	1.38
(1,331)	1:109:A:VAL:HG12	1:73:A:MET:HG2	9	1.38
(1,331)	1:109:A:VAL:HG13	1:73:A:MET:HG2	9	1.38
(1,3313)	1:41:A:LYS:H	1:44:A:GLU:HG2	5	1.37
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	1	1.37
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	1	1.37
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	1	1.37
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	2	1.37
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	2	1.37
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	2	1.37
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	3	1.36
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	4	1.36
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	4	1.36
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	4	1.36
(1,1790)	1:37:A:VAL:HG11	1:137:A:LEU:HA	5	1.36
(1,1790)	1:37:A:VAL:HG12	1:137:A:LEU:HA	5	1.36
(1,1790)	1:37:A:VAL:HG13	1:137:A:LEU:HA	5	1.36
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG11	2	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG12	2	1.36
(1,1024)	1:137:A:LEU:HD21	1:132:A:VAL:HG13	2	1.36
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG11	2	1.36
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG12	2	1.36
(1,1024)	1:137:A:LEU:HD22	1:132:A:VAL:HG13	2	1.36
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG11	2	1.36
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG12	2	1.36
(1,1024)	1:137:A:LEU:HD23	1:132:A:VAL:HG13	2	1.36
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	8	1.36
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	8	1.36
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	8	1.36
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	8	1.36
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	8	1.36
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	8	1.36
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	8	1.36
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	8	1.36
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	8	1.36
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	6	1.36
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	6	1.36
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	6	1.36
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	1	1.35
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	1	1.35
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	1	1.35
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	1	1.35
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	9	1.35
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	9	1.35
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	9	1.35
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	4	1.35
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	4	1.35
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	4	1.35
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	8	1.35
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	6	1.35
(1,2618)	1:3:A:ILE:HD11	1:56:A:SER:HB3	3	1.34
(1,2618)	1:3:A:ILE:HD12	1:56:A:SER:HB3	3	1.34
(1,2618)	1:3:A:ILE:HD13	1:56:A:SER:HB3	3	1.34
(1,2133)	1:57:A:GLN:HB3	1:55:A:GLU:HG3	7	1.34
(1,2594)	1:26:A:PHE:HB2	1:28:A:LEU:HG	6	1.33
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	7	1.33
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	7	1.33
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	7	1.33
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	8	1.32
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	8	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	8	1.32
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	1	1.32
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	1	1.32
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	1	1.32
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	1	1.32
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	1	1.32
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	1	1.32
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	1	1.32
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	1	1.32
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	1	1.32
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	3	1.32
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	3	1.32
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	3	1.32
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	3	1.32
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	3	1.32
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	3	1.32
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	3	1.32
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	3	1.32
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	3	1.32
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	5	1.32
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	5	1.32
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	5	1.32
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	8	1.31
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	8	1.31
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	8	1.31
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	4	1.31
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	4	1.31
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	4	1.31
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	6	1.3
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	6	1.3
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	6	1.3
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	6	1.3
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	6	1.3
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	6	1.3
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	6	1.3
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	6	1.3
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	6	1.3
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	10	1.3
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	7	1.3
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	7	1.3
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	7	1.3
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	7	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	7	1.29
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	7	1.29
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	9	1.29
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	9	1.29
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	9	1.29
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD11	4	1.28
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD12	4	1.28
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD13	4	1.28
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	9	1.28
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	9	1.28
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	9	1.28
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	9	1.28
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	9	1.28
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	9	1.28
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	9	1.28
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	9	1.28
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	9	1.28
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	6	1.27
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	6	1.27
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	6	1.27
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	2	1.27
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	2	1.27
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	2	1.27
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	2	1.27
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	2	1.27
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	2	1.27
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	2	1.27
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	2	1.27
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	2	1.27
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG11	9	1.26
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG12	9	1.26
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG13	9	1.26
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	1	1.26
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	1	1.26
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	1	1.26
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	1	1.26
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	1	1.26
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	1	1.26
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	1	1.26
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	1	1.26
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	1	1.26
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD11	2	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD12	2	1.26
(1,2473)	1:105:A:GLN:HG3	1:139:A:LEU:HD13	2	1.26
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	2	1.26
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	2	1.26
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	2	1.26
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	2	1.26
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	2	1.26
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	2	1.26
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	2	1.26
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	2	1.26
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	2	1.26
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	4	1.25
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD21	7	1.25
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD22	7	1.25
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD23	7	1.25
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	6	1.25
(1,2922)	1:110:A:LEU:H	1:71:A:MET:HG2	2	1.25
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	4	1.25
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	4	1.25
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	4	1.25
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	1	1.25
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	1	1.25
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	1	1.25
(1,1937)	1:40:A:LEU:HD21	1:44:A:GLU:HB3	1	1.25
(1,1937)	1:40:A:LEU:HD22	1:44:A:GLU:HB3	1	1.25
(1,1937)	1:40:A:LEU:HD23	1:44:A:GLU:HB3	1	1.25
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	2	1.25
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	4	1.25
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	4	1.25
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	4	1.25
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	4	1.25
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	4	1.25
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	4	1.25
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	4	1.25
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	4	1.25
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	4	1.25
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	9	1.24
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	3	1.24
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	10	1.23
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	10	1.23
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	10	1.23
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	2	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	7	1.23
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	2	1.23
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	2	1.23
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	2	1.23
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	7	1.23
(1,4639)	1:132:A:VAL:H	1:152:A:ASN:HB3	1	1.22
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	10	1.22
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	5	1.22
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	5	1.22
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	5	1.22
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	5	1.22
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	5	1.22
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	5	1.22
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	5	1.22
(1,225)	1:83:A:TRP:HZ2	1:100:A:LYS:HE2	9	1.22
(1,2379)	1:118:A:VAL:HG21	1:112:A:ASN:HA	9	1.21
(1,2379)	1:118:A:VAL:HG22	1:112:A:ASN:HA	9	1.21
(1,2379)	1:118:A:VAL:HG23	1:112:A:ASN:HA	9	1.21
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	10	1.21
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	10	1.21
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	10	1.21
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	10	1.21
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	10	1.21
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	10	1.21
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	10	1.21
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	10	1.21
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	10	1.21
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	2	1.21
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	2	1.21
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	2	1.21
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	10	1.21
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	10	1.21
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	10	1.21
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	10	1.21
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	10	1.21
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	10	1.21
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	10	1.21
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	10	1.21
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	10	1.21
(1,3605)	1:7:A:SER:H	1:55:A:GLU:HG2	7	1.2
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	9	1.2
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	9	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	9	1.2
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	2	1.2
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	2	1.2
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	2	1.2
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	1	1.19
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	1	1.19
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	1	1.19
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	8	1.19
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	8	1.19
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	8	1.19
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	9	1.19
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	3	1.19
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	3	1.19
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	3	1.19
(1,2133)	1:57:A:GLN:HB3	1:55:A:GLU:HG3	4	1.19
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	8	1.19
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	8	1.19
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	8	1.19
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	6	1.18
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	6	1.18
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	6	1.18
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	10	1.18
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	10	1.18
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	10	1.18
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	5	1.17
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	5	1.17
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	5	1.17
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	2	1.17
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	2	1.17
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	2	1.17
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	2	1.17
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	2	1.17
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	2	1.17
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	2	1.17
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	2	1.17
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	2	1.17
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	9	1.17
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	9	1.17
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	9	1.17
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	9	1.17
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	9	1.17
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	9	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	9	1.17
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	9	1.17
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	9	1.17
(1,2594)	1:26:A:PHE:HB2	1:28:A:LEU:HG	9	1.17
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	7	1.17
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	7	1.17
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	7	1.17
(1,225)	1:83:A:TRP:HZ2	1:100:A:LYS:HE2	8	1.17
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	10	1.16
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	8	1.16
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	8	1.16
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	8	1.16
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	8	1.16
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	8	1.16
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	8	1.16
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	8	1.16
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	8	1.16
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	8	1.16
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	7	1.16
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	7	1.16
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	7	1.16
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	8	1.16
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	8	1.16
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	8	1.16
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	9	1.16
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG11	5	1.16
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG12	5	1.16
(1,357)	1:37:A:VAL:HG11	1:132:A:VAL:HG13	5	1.16
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG11	5	1.16
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG12	5	1.16
(1,357)	1:37:A:VAL:HG12	1:132:A:VAL:HG13	5	1.16
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG11	5	1.16
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG12	5	1.16
(1,357)	1:37:A:VAL:HG13	1:132:A:VAL:HG13	5	1.16
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	10	1.15
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	10	1.15
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	10	1.15
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	5	1.15
(1,1844)	1:9:A:ILE:HG21	1:55:A:GLU:HB2	3	1.15
(1,1844)	1:9:A:ILE:HG22	1:55:A:GLU:HB2	3	1.15
(1,1844)	1:9:A:ILE:HG23	1:55:A:GLU:HB2	3	1.15
(1,947)	1:13:A:LEU:HD21	1:50:A:LEU:HA	6	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,947)	1:13:A:LEU:HD22	1:50:A:LEU:HA	6	1.15
(1,947)	1:13:A:LEU:HD23	1:50:A:LEU:HA	6	1.15
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	4	1.15
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD21	3	1.14
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD22	3	1.14
(1,3912)	1:32:A:SER:H	1:28:A:LEU:HD23	3	1.14
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	9	1.14
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	9	1.14
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	9	1.14
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	4	1.14
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	4	1.14
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	4	1.14
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	6	1.14
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	1	1.14
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	1	1.14
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	1	1.14
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	4	1.13
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	4	1.13
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	4	1.13
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	6	1.13
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	6	1.13
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	6	1.13
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	7	1.13
(1,1844)	1:9:A:ILE:HG21	1:55:A:GLU:HB2	8	1.13
(1,1844)	1:9:A:ILE:HG22	1:55:A:GLU:HB2	8	1.13
(1,1844)	1:9:A:ILE:HG23	1:55:A:GLU:HB2	8	1.13
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	1	1.13
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	1	1.13
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	1	1.13
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	4	1.12
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG11	7	1.12
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG12	7	1.12
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG13	7	1.12
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	1	1.12
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	1	1.12
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	1	1.12
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	3	1.12
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	3	1.12
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	3	1.12
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	8	1.12
(1,225)	1:83:A:TRP:HZ2	1:100:A:LYS:HE2	10	1.12
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG11	4	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG12	4	1.11
(1,2690)	1:140:A:ILE:H	1:128:A:VAL:HG13	4	1.11
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	10	1.11
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	8	1.11
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	8	1.11
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	8	1.11
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	10	1.11
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	10	1.11
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	10	1.11
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	4	1.11
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	7	1.11
(1,660)	1:140:A:ILE:HG12	1:131:A:GLY:HA2	2	1.11
(1,378)	1:28:A:LEU:HD11	1:26:A:PHE:HB2	3	1.11
(1,378)	1:28:A:LEU:HD12	1:26:A:PHE:HB2	3	1.11
(1,378)	1:28:A:LEU:HD13	1:26:A:PHE:HB2	3	1.11
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	7	1.1
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	7	1.1
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	7	1.1
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	6	1.1
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	6	1.1
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	6	1.1
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	9	1.1
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	9	1.1
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	9	1.1
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	3	1.09
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	3	1.09
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	3	1.09
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	5	1.09
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	5	1.09
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	5	1.09
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	8	1.09
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	8	1.09
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	8	1.09
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	4	1.09
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	4	1.09
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	4	1.09
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	4	1.09
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	4	1.09
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	4	1.09
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	4	1.09
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	4	1.09
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	4	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1844)	1:9:A:ILE:HG21	1:55:A:GLU:HB2	1	1.09
(1,1844)	1:9:A:ILE:HG22	1:55:A:GLU:HB2	1	1.09
(1,1844)	1:9:A:ILE:HG23	1:55:A:GLU:HB2	1	1.09
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD21	8	1.09
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD22	8	1.09
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD23	8	1.09
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	5	1.09
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	5	1.09
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	5	1.09
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	5	1.09
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	5	1.09
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	5	1.09
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	5	1.09
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	5	1.09
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	5	1.09
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	1	1.09
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	1	1.09
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	1	1.09
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	8	1.09
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	8	1.09
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	8	1.09
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	1	1.08
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	1	1.08
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	1	1.08
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	1	1.08
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	1	1.08
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	1	1.08
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	1	1.08
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	1	1.08
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	1	1.08
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	8	1.08
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	8	1.08
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	8	1.08
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	8	1.08
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	8	1.08
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	8	1.08
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	8	1.08
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	8	1.08
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	8	1.08
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	10	1.08
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	10	1.08
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	10	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	10	1.08
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	10	1.08
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	10	1.08
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	10	1.08
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	10	1.08
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	10	1.08
(1,332)	1:109:A:VAL:HG11	1:123:A:LYS:HA	10	1.08
(1,332)	1:109:A:VAL:HG12	1:123:A:LYS:HA	10	1.08
(1,332)	1:109:A:VAL:HG13	1:123:A:LYS:HA	10	1.08
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	5	1.07
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	5	1.07
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	5	1.07
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD1	2	1.07
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD2	2	1.07
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD1	2	1.07
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD2	2	1.07
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD1	2	1.07
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD2	2	1.07
(1,240)	1:140:A:ILE:HD11	1:131:A:GLY:HA2	1	1.07
(1,240)	1:140:A:ILE:HD12	1:131:A:GLY:HA2	1	1.07
(1,240)	1:140:A:ILE:HD13	1:131:A:GLY:HA2	1	1.07
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	3	1.06
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	3	1.06
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	3	1.06
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	2	1.06
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	2	1.06
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	2	1.06
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	3	1.06
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	4	1.06
(1,225)	1:83:A:TRP:HZ2	1:100:A:LYS:HE2	6	1.06
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	9	1.05
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	9	1.05
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	9	1.05
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	9	1.05
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	9	1.05
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	9	1.05
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	9	1.05
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	9	1.05
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	9	1.05
(1,1293)	1:152:A:ASN:HB3	1:140:A:ILE:HD11	1	1.05
(1,1293)	1:152:A:ASN:HB3	1:140:A:ILE:HD12	1	1.05
(1,1293)	1:152:A:ASN:HB3	1:140:A:ILE:HD13	1	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,817)	1:49:A:VAL:HG21	1:76:A:LEU:HB3	4	1.05
(1,817)	1:49:A:VAL:HG22	1:76:A:LEU:HB3	4	1.05
(1,817)	1:49:A:VAL:HG23	1:76:A:LEU:HB3	4	1.05
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	7	1.04
(1,2935)	1:141:A:LYS:H	1:91:A:HIS:HB2	1	1.04
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	1	1.04
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	1	1.04
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	1	1.04
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD21	4	1.04
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD22	4	1.04
(1,2642)	1:93:A:VAL:HG21	1:84:A:LEU:HD23	4	1.04
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD21	4	1.04
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD22	4	1.04
(1,2642)	1:93:A:VAL:HG22	1:84:A:LEU:HD23	4	1.04
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD21	4	1.04
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD22	4	1.04
(1,2642)	1:93:A:VAL:HG23	1:84:A:LEU:HD23	4	1.04
(1,2318)	1:95:A:LEU:HD11	1:26:A:PHE:HB2	3	1.04
(1,2318)	1:95:A:LEU:HD12	1:26:A:PHE:HB2	3	1.04
(1,2318)	1:95:A:LEU:HD13	1:26:A:PHE:HB2	3	1.04
(1,2133)	1:57:A:GLN:HB3	1:55:A:GLU:HG3	5	1.04
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	3	1.04
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	3	1.04
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	3	1.04
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	3	1.04
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	3	1.04
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	3	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	3	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	3	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	3	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	3	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	3	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	3	1.04
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	6	1.04
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	6	1.04
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	6	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	6	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	6	1.04
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	6	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	6	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	6	1.04
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	6	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1844)	1:9:A:ILE:HG21	1:55:A:GLU:HB2	9	1.04
(1,1844)	1:9:A:ILE:HG22	1:55:A:GLU:HB2	9	1.04
(1,1844)	1:9:A:ILE:HG23	1:55:A:GLU:HB2	9	1.04
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	9	1.04
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	9	1.04
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	9	1.04
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	9	1.04
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	9	1.04
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	9	1.04
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	9	1.04
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	9	1.04
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	9	1.04
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	5	1.03
(1,3124)	1:143:A:ASP:H	1:146:A:GLU:HB2	3	1.03
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG21	8	1.03
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG22	8	1.03
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG23	8	1.03
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	10	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	5	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	5	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	5	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	5	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	5	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	5	1.03
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	5	1.03
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	5	1.03
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	5	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	7	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	7	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	7	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	7	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	7	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	7	1.03
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	7	1.03
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	7	1.03
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	7	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	10	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	10	1.03
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	10	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	10	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	10	1.03
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	10	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	10	1.03
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	10	1.03
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	10	1.03
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	9	1.03
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	7	1.02
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	6	1.02
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	3	1.02
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	9	1.02
(1,2594)	1:26:A:PHE:HB2	1:28:A:LEU:HG	5	1.02
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	6	1.01
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD21	3	1.01
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD22	3	1.01
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD23	3	1.01
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	2	1.0
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	2	1.0
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	2	1.0
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	2	1.0
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	7	1.0
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	7	1.0
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	7	1.0
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	7	1.0
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	8	1.0
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	8	1.0
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	8	1.0
(1,2618)	1:3:A:ILE:HD11	1:56:A:SER:HB3	10	1.0
(1,2618)	1:3:A:ILE:HD12	1:56:A:SER:HB3	10	1.0
(1,2618)	1:3:A:ILE:HD13	1:56:A:SER:HB3	10	1.0
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	7	1.0
(1,1918)	1:135:A:ASN:HB2	1:37:A:VAL:HB	3	1.0
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	6	0.99
(1,3573)	1:148:A:LEU:H	1:148:A:LEU:HB3	4	0.99
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	3	0.99
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	10	0.99
(1,2465)	1:138:A:ALA:HA	1:133:A:LYS:HG2	6	0.99
(1,1918)	1:135:A:ASN:HB2	1:37:A:VAL:HB	7	0.99
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	9	0.99
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	9	0.99
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	9	0.99
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	9	0.99
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	9	0.99
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	9	0.99
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	9	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	9	0.99
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	9	0.99
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	4	0.98
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	1	0.98
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	8	0.98
(1,3136)	1:86:A:ALA:H	1:105:A:GLN:HB2	8	0.98
(1,1918)	1:135:A:ASN:HB2	1:37:A:VAL:HB	10	0.98
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	6	0.98
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	6	0.98
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	6	0.98
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	4	0.98
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	4	0.98
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	4	0.98
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	1	0.97
(1,3444)	1:71:A:MET:H	1:70:A:LYS:HB2	10	0.97
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	6	0.97
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	2	0.97
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	2	0.97
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	2	0.97
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	4	0.97
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	4	0.97
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	4	0.97
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	5	0.97
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	5	0.97
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	5	0.97
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	7	0.97
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	7	0.97
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	7	0.97
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG11	10	0.97
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG12	10	0.97
(1,2466)	1:138:A:ALA:HA	1:93:A:VAL:HG13	10	0.97
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG21	1	0.97
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG22	1	0.97
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG23	1	0.97
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG11	2	0.97
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG12	2	0.97
(1,1870)	1:18:A:THR:HG21	1:132:A:VAL:HG13	2	0.97
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG11	2	0.97
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG12	2	0.97
(1,1870)	1:18:A:THR:HG22	1:132:A:VAL:HG13	2	0.97
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG11	2	0.97
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG12	2	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1870)	1:18:A:THR:HG23	1:132:A:VAL:HG13	2	0.97
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	7	0.97
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	7	0.97
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	7	0.97
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	8	0.96
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	9	0.96
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	9	0.96
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	9	0.96
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	2	0.96
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	2	0.96
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	2	0.96
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	2	0.96
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	9	0.96
(1,331)	1:109:A:VAL:HG11	1:73:A:MET:HG2	1	0.96
(1,331)	1:109:A:VAL:HG12	1:73:A:MET:HG2	1	0.96
(1,331)	1:109:A:VAL:HG13	1:73:A:MET:HG2	1	0.96
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	7	0.96
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	7	0.96
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	7	0.96
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	7	0.95
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	3	0.95
(1,2465)	1:138:A:ALA:HA	1:133:A:LYS:HG2	1	0.95
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	1	0.95
(1,1987)	1:113:A:MET:HG2	1:154:A:LEU:HA	7	0.95
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	4	0.95
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	4	0.95
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	4	0.95
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	7	0.95
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	7	0.95
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	7	0.95
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	7	0.95
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	9	0.94
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	5	0.94
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG21	5	0.94
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG22	5	0.94
(1,3838)	1:136:A:HIS:H	1:132:A:VAL:HG23	5	0.94
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	1	0.94
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	2	0.94
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	4	0.94
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	10	0.94
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	6	0.94
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	3	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	7	0.93
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	7	0.93
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	7	0.93
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	6	0.93
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	8	0.93
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	9	0.93
(1,2634)	1:73:A:MET:HG2	1:56:A:SER:HB3	10	0.93
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	10	0.93
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	10	0.93
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	10	0.93
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	5	0.93
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	2	0.92
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	9	0.92
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	10	0.92
(1,4198)	1:9:A:ILE:H	1:9:A:ILE:HG13	5	0.92
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	5	0.92
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	9	0.92
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG21	1	0.92
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG22	1	0.92
(1,2429)	1:122:A:CYS:HB3	1:128:A:VAL:HG23	1	0.92
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	9	0.92
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	9	0.92
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	9	0.92
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	6	0.92
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	6	0.92
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	6	0.92
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG21	9	0.92
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG22	9	0.92
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG23	9	0.92
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	3	0.91
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	4	0.91
(1,3605)	1:7:A:SER:H	1:55:A:GLU:HG2	4	0.91
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	5	0.91
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	2	0.91
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	2	0.91
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	2	0.91
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	10	0.91
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	10	0.91
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	10	0.91
(1,2663)	1:100:A:LYS:HB2	1:101:A:PRO:HA	7	0.91
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	2	0.91
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	2	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	2	0.91
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	8	0.91
(1,331)	1:109:A:VAL:HG11	1:73:A:MET:HG2	8	0.91
(1,331)	1:109:A:VAL:HG12	1:73:A:MET:HG2	8	0.91
(1,331)	1:109:A:VAL:HG13	1:73:A:MET:HG2	8	0.91
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	2	0.9
(1,4322)	1:40:A:LEU:H	1:40:A:LEU:HB3	7	0.9
(1,3384)	1:40:A:LEU:H	1:23:A:SER:HB3	8	0.9
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	6	0.9
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	6	0.9
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	6	0.9
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	3	0.9
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	3	0.9
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	3	0.9
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	10	0.9
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	5	0.89
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	4	0.89
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	2	0.89
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	2	0.89
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	2	0.89
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	4	0.89
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	4	0.89
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	4	0.89
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	4	0.89
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	4	0.89
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	4	0.89
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	4	0.89
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	4	0.89
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	4	0.89
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	8	0.89
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	8	0.89
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	8	0.89
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	8	0.89
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	8	0.89
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	8	0.89
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	8	0.89
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	8	0.89
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	8	0.89
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	2	0.88
(1,2594)	1:26:A:PHE:HB2	1:28:A:LEU:HG	2	0.88
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	4	0.88
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	8	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	8	0.88
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	8	0.88
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	2	0.88
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	2	0.88
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	2	0.88
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	5	0.88
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	5	0.88
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	5	0.88
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	5	0.88
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	5	0.88
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	5	0.88
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	5	0.88
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	5	0.88
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	5	0.88
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	6	0.88
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	3	0.88
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	3	0.88
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	3	0.88
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	1	0.87
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	4	0.87
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	8	0.87
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	8	0.87
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	8	0.87
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	5	0.87
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	5	0.87
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	5	0.87
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	4	0.87
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	4	0.87
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	4	0.87
(1,3605)	1:7:A:SER:H	1:55:A:GLU:HG2	5	0.86
(1,2326)	1:28:A:LEU:HD11	1:35:A:ILE:HG13	1	0.86
(1,2326)	1:28:A:LEU:HD12	1:35:A:ILE:HG13	1	0.86
(1,2326)	1:28:A:LEU:HD13	1:35:A:ILE:HG13	1	0.86
(1,1796)	1:37:A:VAL:HG11	1:135:A:ASN:HB2	3	0.86
(1,1796)	1:37:A:VAL:HG12	1:135:A:ASN:HB2	3	0.86
(1,1796)	1:37:A:VAL:HG13	1:135:A:ASN:HB2	3	0.86
(1,1796)	1:37:A:VAL:HG11	1:135:A:ASN:HB2	7	0.86
(1,1796)	1:37:A:VAL:HG12	1:135:A:ASN:HB2	7	0.86
(1,1796)	1:37:A:VAL:HG13	1:135:A:ASN:HB2	7	0.86
(1,1136)	1:139:A:LEU:HA	1:139:A:LEU:HD21	7	0.86
(1,1136)	1:139:A:LEU:HA	1:139:A:LEU:HD22	7	0.86
(1,1136)	1:139:A:LEU:HA	1:139:A:LEU:HD23	7	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	2	0.86
(1,3573)	1:148:A:LEU:H	1:148:A:LEU:HB3	6	0.85
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	3	0.85
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	3	0.85
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	3	0.85
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	10	0.85
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	10	0.85
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	10	0.85
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	5	0.85
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	5	0.85
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	5	0.85
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	2	0.85
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	2	0.85
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	2	0.85
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	8	0.84
(1,3573)	1:148:A:LEU:H	1:148:A:LEU:HB3	1	0.84
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG21	9	0.84
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG22	9	0.84
(1,2833)	1:77:A:SER:H	1:49:A:VAL:HG23	9	0.84
(1,2053)	1:101:A:PRO:HA	1:100:A:LYS:HG2	7	0.84
(1,1897)	1:28:A:LEU:HD21	1:82:A:PHE:HZ	3	0.84
(1,1897)	1:28:A:LEU:HD22	1:82:A:PHE:HZ	3	0.84
(1,1897)	1:28:A:LEU:HD23	1:82:A:PHE:HZ	3	0.84
(1,1847)	1:9:A:ILE:HG21	1:55:A:GLU:HG2	10	0.84
(1,1847)	1:9:A:ILE:HG22	1:55:A:GLU:HG2	10	0.84
(1,1847)	1:9:A:ILE:HG23	1:55:A:GLU:HG2	10	0.84
(1,1796)	1:37:A:VAL:HG11	1:135:A:ASN:HB2	10	0.84
(1,1796)	1:37:A:VAL:HG12	1:135:A:ASN:HB2	10	0.84
(1,1796)	1:37:A:VAL:HG13	1:135:A:ASN:HB2	10	0.84
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	6	0.83
(1,3374)	1:46:A:LYS:H	1:46:A:LYS:HB3	8	0.83
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	3	0.83
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	3	0.83
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	3	0.83
(1,2326)	1:28:A:LEU:HD11	1:35:A:ILE:HG13	4	0.83
(1,2326)	1:28:A:LEU:HD12	1:35:A:ILE:HG13	4	0.83
(1,2326)	1:28:A:LEU:HD13	1:35:A:ILE:HG13	4	0.83
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	9	0.83
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	9	0.83
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	9	0.83
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	9	0.83
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	9	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	9	0.83
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	9	0.83
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	9	0.83
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	9	0.83
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	1	0.83
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	1	0.83
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	1	0.83
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	7	0.83
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	7	0.83
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	7	0.83
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	2	0.82
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	2	0.82
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	2	0.82
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	9	0.82
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	9	0.82
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	9	0.82
(1,2381)	1:113:A:MET:HB3	1:117:A:CYS:HB2	1	0.82
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	6	0.82
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	6	0.82
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	6	0.82
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	6	0.82
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	6	0.82
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	6	0.82
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	6	0.82
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	6	0.82
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	6	0.82
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	9	0.82
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	9	0.82
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	9	0.82
(1,3950)	1:90:A:GLU:H	1:90:A:GLU:HG3	3	0.81
(1,3948)	1:90:A:GLU:H	1:89:A:LYS:HB3	4	0.81
(1,3384)	1:40:A:LEU:H	1:23:A:SER:HB3	10	0.81
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	5	0.81
(1,940)	1:13:A:LEU:HD21	1:13:A:LEU:HA	6	0.81
(1,940)	1:13:A:LEU:HD22	1:13:A:LEU:HA	6	0.81
(1,940)	1:13:A:LEU:HD23	1:13:A:LEU:HA	6	0.81
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	6	0.81
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	6	0.81
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	6	0.81
(1,364)	1:25:A:THR:HG21	1:23:A:SER:HB2	3	0.81
(1,364)	1:25:A:THR:HG22	1:23:A:SER:HB2	3	0.81
(1,364)	1:25:A:THR:HG23	1:23:A:SER:HB2	3	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3573)	1:148:A:LEU:H	1:148:A:LEU:HB3	7	0.8
(1,3573)	1:148:A:LEU:H	1:148:A:LEU:HB3	10	0.8
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB2	1	0.8
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB3	1	0.8
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB2	1	0.8
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB3	1	0.8
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB2	1	0.8
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB3	1	0.8
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	2	0.8
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	2	0.8
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	2	0.8
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	5	0.8
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	5	0.8
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	5	0.8
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG21	9	0.79
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG22	9	0.79
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG23	9	0.79
(1,2598)	1:30:A:ASP:HB3	1:31:A:GLU:HG3	7	0.79
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	6	0.78
(1,3573)	1:148:A:LEU:H	1:148:A:LEU:HB3	2	0.78
(1,3573)	1:148:A:LEU:H	1:148:A:LEU:HB3	5	0.78
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG21	7	0.78
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG22	7	0.78
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG23	7	0.78
(1,2618)	1:3:A:ILE:HD11	1:56:A:SER:HB3	5	0.78
(1,2618)	1:3:A:ILE:HD12	1:56:A:SER:HB3	5	0.78
(1,2618)	1:3:A:ILE:HD13	1:56:A:SER:HB3	5	0.78
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	3	0.78
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	3	0.78
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	3	0.78
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	3	0.78
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	3	0.78
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	3	0.78
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	3	0.78
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	3	0.78
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	3	0.78
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG21	4	0.77
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG22	4	0.77
(1,3506)	1:128:A:VAL:H	1:128:A:VAL:HG23	4	0.77
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	5	0.77
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	5	0.77
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	5	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	8	0.77
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	8	0.77
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	8	0.77
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	10	0.77
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	10	0.77
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	10	0.77
(1,1987)	1:113:A:MET:HG2	1:154:A:LEU:HA	3	0.77
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	1	0.77
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	1	0.77
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	1	0.77
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	1	0.77
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	1	0.77
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	1	0.77
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	1	0.77
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	1	0.77
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	1	0.77
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	6	0.77
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	6	0.77
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	6	0.77
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	6	0.77
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	6	0.77
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	6	0.77
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	6	0.77
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	6	0.77
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	6	0.77
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	8	0.76
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	8	0.76
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	8	0.76
(1,4303)	1:31:A:GLU:H	1:30:A:ASP:HB3	7	0.76
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	4	0.76
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	7	0.76
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	6	0.76
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	6	0.76
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	6	0.76
(1,2618)	1:3:A:ILE:HD11	1:56:A:SER:HB3	6	0.76
(1,2618)	1:3:A:ILE:HD12	1:56:A:SER:HB3	6	0.76
(1,2618)	1:3:A:ILE:HD13	1:56:A:SER:HB3	6	0.76
(1,2326)	1:28:A:LEU:HD11	1:35:A:ILE:HG13	8	0.76
(1,2326)	1:28:A:LEU:HD12	1:35:A:ILE:HG13	8	0.76
(1,2326)	1:28:A:LEU:HD13	1:35:A:ILE:HG13	8	0.76
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG21	7	0.76
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG22	7	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG23	7	0.76
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	6	0.76
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	6	0.76
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	6	0.76
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	8	0.76
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	8	0.76
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	8	0.76
(1,364)	1:25:A:THR:HG21	1:23:A:SER:HB2	5	0.76
(1,364)	1:25:A:THR:HG22	1:23:A:SER:HB2	5	0.76
(1,364)	1:25:A:THR:HG23	1:23:A:SER:HB2	5	0.76
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	9	0.75
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	1	0.75
(1,2594)	1:26:A:PHE:HB2	1:28:A:LEU:HG	3	0.75
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	2	0.75
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	2	0.75
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	2	0.75
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG21	10	0.75
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG22	10	0.75
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG23	10	0.75
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	3	0.75
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	3	0.75
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	3	0.75
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	2	0.75
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	2	0.75
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	2	0.75
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	2	0.75
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	2	0.75
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	2	0.75
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	2	0.75
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	2	0.75
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	2	0.75
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG21	4	0.75
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG22	4	0.75
(1,1336)	1:125:A:ASP:HB2	1:128:A:VAL:HG23	4	0.75
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	3	0.75
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD11	6	0.75
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD12	6	0.75
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD13	6	0.75
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB2	8	0.75
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB3	8	0.75
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB2	8	0.75
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB3	8	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB2	8	0.75
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB3	8	0.75
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	1	0.74
(1,3950)	1:90:A:GLU:H	1:90:A:GLU:HG3	9	0.74
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	10	0.74
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD21	3	0.74
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD22	3	0.74
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD23	3	0.74
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD21	3	0.74
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD22	3	0.74
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD23	3	0.74
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD21	3	0.74
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD22	3	0.74
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD23	3	0.74
(1,947)	1:13:A:LEU:HD21	1:50:A:LEU:HA	8	0.74
(1,947)	1:13:A:LEU:HD22	1:50:A:LEU:HA	8	0.74
(1,947)	1:13:A:LEU:HD23	1:50:A:LEU:HA	8	0.74
(1,479)	1:17:A:SER:HB3	1:156:A:LYS:HB2	8	0.74
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	9	0.74
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	9	0.74
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	9	0.74
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	9	0.74
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	9	0.74
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	9	0.74
(1,4303)	1:31:A:GLU:H	1:30:A:ASP:HB3	6	0.73
(1,4198)	1:9:A:ILE:H	1:9:A:ILE:HG13	4	0.73
(1,4198)	1:9:A:ILE:H	1:9:A:ILE:HG13	7	0.73
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG21	3	0.73
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG22	3	0.73
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG23	3	0.73
(1,1897)	1:28:A:LEU:HD21	1:82:A:PHE:HZ	7	0.73
(1,1897)	1:28:A:LEU:HD22	1:82:A:PHE:HZ	7	0.73
(1,1897)	1:28:A:LEU:HD23	1:82:A:PHE:HZ	7	0.73
(1,4198)	1:9:A:ILE:H	1:9:A:ILE:HG13	2	0.72
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	8	0.72
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	8	0.72
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	8	0.72
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	8	0.72
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	7	0.72
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	7	0.72
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	7	0.72
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	6	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	6	0.72
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	6	0.72
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG21	2	0.72
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG22	2	0.72
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG23	2	0.72
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD21	3	0.72
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD22	3	0.72
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD23	3	0.72
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD21	8	0.72
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD22	8	0.72
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD23	8	0.72
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	3	0.71
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	2	0.71
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	2	0.71
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	2	0.71
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	5	0.71
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	5	0.71
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	5	0.71
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	7	0.71
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	7	0.71
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	7	0.71
(1,2291)	1:88:A:ASN:HB3	1:125:A:ASP:HB3	8	0.71
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB2	6	0.71
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB3	6	0.71
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB2	6	0.71
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB3	6	0.71
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB2	6	0.71
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB3	6	0.71
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	7	0.71
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	7	0.71
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	7	0.71
(1,808)	1:49:A:VAL:HG21	1:76:A:LEU:HA	4	0.71
(1,808)	1:49:A:VAL:HG22	1:76:A:LEU:HA	4	0.71
(1,808)	1:49:A:VAL:HG23	1:76:A:LEU:HA	4	0.71
(1,4352)	1:55:A:GLU:H	1:55:A:GLU:HG2	6	0.7
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	9	0.7
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	4	0.7
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	5	0.7
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	4	0.7
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	4	0.7
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	4	0.7
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	4	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	4	0.7
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	4	0.7
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	4	0.7
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	4	0.7
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	4	0.7
(1,4303)	1:31:A:GLU:H	1:30:A:ASP:HB3	9	0.69
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	6	0.69
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	2	0.69
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	1	0.69
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	1	0.69
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	1	0.69
(1,2594)	1:26:A:PHE:HB2	1:28:A:LEU:HG	7	0.69
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	2	0.69
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	2	0.69
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	2	0.69
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	8	0.68
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	2	0.68
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	3	0.68
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	3	0.68
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	3	0.68
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	5	0.68
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	5	0.68
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	5	0.68
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	4	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD2	2	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD3	2	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD2	7	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD3	7	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD2	8	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD3	8	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD2	9	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD3	9	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD2	10	0.68
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD3	10	0.68
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD21	9	0.68
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD22	9	0.68
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD23	9	0.68
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	4	0.67
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	8	0.67
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	6	0.67
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG21	1	0.67
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG22	1	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3069)	1:121:A:GLU:H	1:74:A:VAL:HG23	1	0.67
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	3	0.67
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	4	0.67
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	7	0.67
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	4	0.67
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	4	0.67
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	4	0.67
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	6	0.67
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	6	0.67
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	6	0.67
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD2	4	0.67
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD3	4	0.67
(1,1126)	1:110:A:LEU:HD11	1:120:A:PHE:HA	5	0.67
(1,1126)	1:110:A:LEU:HD12	1:120:A:PHE:HA	5	0.67
(1,1126)	1:110:A:LEU:HD13	1:120:A:PHE:HA	5	0.67
(1,476)	1:17:A:SER:HB2	1:21:A:ASP:HB2	5	0.67
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	2	0.66
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	9	0.66
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	5	0.66
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	9	0.66
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	4	0.66
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	10	0.66
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	1	0.66
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	5	0.66
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	6	0.66
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	8	0.66
(1,2875)	1:104:A:ASP:H	1:104:A:ASP:HB3	9	0.66
(1,2465)	1:138:A:ALA:HA	1:133:A:LYS:HG2	3	0.66
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	6	0.66
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	6	0.66
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	6	0.66
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	9	0.66
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	9	0.66
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	9	0.66
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD21	8	0.66
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD22	8	0.66
(1,1436)	1:113:A:MET:HE1	1:148:A:LEU:HD23	8	0.66
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD21	8	0.66
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD22	8	0.66
(1,1436)	1:113:A:MET:HE2	1:148:A:LEU:HD23	8	0.66
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD21	8	0.66
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD22	8	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1436)	1:113:A:MET:HE3	1:148:A:LEU:HD23	8	0.66
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD21	6	0.66
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD22	6	0.66
(1,1147)	1:148:A:LEU:HA	1:148:A:LEU:HD23	6	0.66
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	5	0.65
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	10	0.65
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	10	0.65
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD11	8	0.65
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD12	8	0.65
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD13	8	0.65
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	4	0.65
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	4	0.65
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	4	0.65
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	2	0.65
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	2	0.65
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	2	0.65
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	2	0.65
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	2	0.65
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	2	0.65
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	2	0.65
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	2	0.65
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	2	0.65
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD11	7	0.65
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD12	7	0.65
(1,1184)	1:157:A:LEU:HA	1:16:A:LEU:HD13	7	0.65
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	9	0.64
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	5	0.64
(1,4303)	1:31:A:GLU:H	1:30:A:ASP:HB3	10	0.64
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	1	0.64
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	5	0.64
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	6	0.64
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	9	0.64
(1,3384)	1:40:A:LEU:H	1:23:A:SER:HB3	2	0.64
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	3	0.64
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	3	0.64
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	3	0.64
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	6	0.64
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	6	0.64
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	6	0.64
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	4	0.64
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	4	0.64
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	4	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE1	1	0.64
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE2	1	0.64
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE3	1	0.64
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB2	9	0.64
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB3	9	0.64
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB2	9	0.64
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB3	9	0.64
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB2	9	0.64
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB3	9	0.64
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	2	0.64
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	2	0.64
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	2	0.64
(1,532)	1:48:A:LYS:HB3	1:13:A:LEU:HD21	8	0.64
(1,532)	1:48:A:LYS:HB3	1:13:A:LEU:HD22	8	0.64
(1,532)	1:48:A:LYS:HB3	1:13:A:LEU:HD23	8	0.64
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	2	0.64
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	2	0.64
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	2	0.64
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	10	0.64
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	10	0.64
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	10	0.64
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	10	0.63
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	4	0.63
(1,4025)	1:105:A:GLN:H	1:105:A:GLN:HB3	7	0.63
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	10	0.63
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	4	0.63
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	4	0.63
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	4	0.63
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	2	0.63
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	2	0.63
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	6	0.63
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	6	0.63
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	6	0.63
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	7	0.63
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	7	0.63
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	7	0.63
(1,1523)	1:118:A:VAL:HG11	1:156:A:LYS:HA	9	0.63
(1,1523)	1:118:A:VAL:HG12	1:156:A:LYS:HA	9	0.63
(1,1523)	1:118:A:VAL:HG13	1:156:A:LYS:HA	9	0.63
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	5	0.63
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	5	0.63
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	5	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB2	2	0.63
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB3	2	0.63
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB2	2	0.63
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB3	2	0.63
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB2	2	0.63
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB3	2	0.63
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	2	0.63
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	2	0.63
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	2	0.63
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	10	0.63
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	10	0.63
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	10	0.63
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG21	9	0.63
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG22	9	0.63
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG23	9	0.63
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	8	0.63
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	8	0.63
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	8	0.63
(1,4655)	1:128:A:VAL:H	1:121:A:GLU:HB3	3	0.62
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	3	0.62
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	8	0.62
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	4	0.62
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	5	0.62
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	2	0.62
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	2	0.62
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	2	0.62
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	5	0.62
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	5	0.62
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	5	0.62
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	6	0.62
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	8	0.62
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	8	0.62
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	8	0.62
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	8	0.62
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD11	6	0.62
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD12	6	0.62
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD13	6	0.62
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	3	0.62
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	3	0.62
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	3	0.62
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	3	0.62
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	3	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	3	0.62
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	3	0.62
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	3	0.62
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	3	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	1	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	1	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	1	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	5	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	5	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	5	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	7	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	7	0.62
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	7	0.62
(1,379)	1:28:A:LEU:HD21	1:26:A:PHE:HB2	6	0.62
(1,379)	1:28:A:LEU:HD22	1:26:A:PHE:HB2	6	0.62
(1,379)	1:28:A:LEU:HD23	1:26:A:PHE:HB2	6	0.62
(1,4667)	1:48:A:LYS:H	1:13:A:LEU:HD21	8	0.61
(1,4667)	1:48:A:LYS:H	1:13:A:LEU:HD22	8	0.61
(1,4667)	1:48:A:LYS:H	1:13:A:LEU:HD23	8	0.61
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	1	0.61
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	1	0.61
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	1	0.61
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	5	0.61
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	3	0.61
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	7	0.61
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	10	0.61
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	3	0.61
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	5	0.61
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	9	0.61
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	3	0.61
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	3	0.61
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	3	0.61
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG21	7	0.61
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG22	7	0.61
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG23	7	0.61
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	6	0.61
(1,2072)	1:86:A:ALA:HB1	1:105:A:GLN:HG3	10	0.61
(1,2072)	1:86:A:ALA:HB2	1:105:A:GLN:HG3	10	0.61
(1,2072)	1:86:A:ALA:HB3	1:105:A:GLN:HG3	10	0.61
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD2	5	0.61
(1,1538)	1:133:A:LYS:HB3	1:133:A:LYS:HD3	5	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD11	3	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD12	3	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD13	3	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD11	8	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD12	8	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD13	8	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD11	9	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD12	9	0.61
(1,1157)	1:148:A:LEU:HB3	1:148:A:LEU:HD13	9	0.61
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG21	10	0.61
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG22	10	0.61
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG23	10	0.61
(1,825)	1:49:A:VAL:HG11	1:15:A:SER:HA	6	0.61
(1,825)	1:49:A:VAL:HG12	1:15:A:SER:HA	6	0.61
(1,825)	1:49:A:VAL:HG13	1:15:A:SER:HA	6	0.61
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	6	0.61
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	6	0.61
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	6	0.61
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	8	0.61
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	8	0.61
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	8	0.61
(1,4286)	1:22:A:GLN:H	1:22:A:GLN:HB3	10	0.6
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	7	0.6
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	1	0.6
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	2	0.6
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	6	0.6
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	8	0.6
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	7	0.6
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	7	0.6
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	7	0.6
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	7	0.6
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE1	4	0.6
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE2	4	0.6
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE3	4	0.6
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	1	0.6
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	1	0.6
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	1	0.6
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	8	0.6
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	8	0.6
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	8	0.6
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	8	0.6
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	8	0.6
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	8	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	8	0.6
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	8	0.6
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	8	0.6
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	5	0.6
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	5	0.6
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	5	0.6
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	5	0.6
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	5	0.6
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	5	0.6
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	5	0.6
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	5	0.6
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	5	0.6
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD11	2	0.6
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD12	2	0.6
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD13	2	0.6
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD11	6	0.6
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD12	6	0.6
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD13	6	0.6
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	3	0.6
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	3	0.6
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	3	0.6
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	4	0.6
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	4	0.6
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	4	0.6
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	9	0.6
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	9	0.6
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	9	0.6
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	1	0.6
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	1	0.6
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	1	0.6
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	4	0.6
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	4	0.6
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	4	0.6
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	5	0.6
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	5	0.6
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	5	0.6
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	9	0.6
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	9	0.6
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	9	0.6
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	5	0.59
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	5	0.59
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	5	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	4	0.59
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	4	0.59
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	4	0.59
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD11	7	0.59
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD12	7	0.59
(1,969)	1:16:A:LEU:HA	1:16:A:LEU:HD13	7	0.59
(1,826)	1:49:A:VAL:HG11	1:78:A:PRO:HD2	10	0.59
(1,826)	1:49:A:VAL:HG12	1:78:A:PRO:HD2	10	0.59
(1,826)	1:49:A:VAL:HG13	1:78:A:PRO:HD2	10	0.59
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	6	0.58
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	6	0.58
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	6	0.58
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	1	0.58
(1,3415)	1:45:A:LYS:H	1:45:A:LYS:HB3	6	0.58
(1,2641)	1:86:A:ALA:HB1	1:88:A:ASN:HB3	2	0.58
(1,2641)	1:86:A:ALA:HB2	1:88:A:ASN:HB3	2	0.58
(1,2641)	1:86:A:ALA:HB3	1:88:A:ASN:HB3	2	0.58
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	10	0.58
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	10	0.58
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	10	0.58
(1,2323)	1:28:A:LEU:HD21	1:95:A:LEU:HD21	10	0.58
(1,2323)	1:28:A:LEU:HD21	1:95:A:LEU:HD22	10	0.58
(1,2323)	1:28:A:LEU:HD21	1:95:A:LEU:HD23	10	0.58
(1,2323)	1:28:A:LEU:HD22	1:95:A:LEU:HD21	10	0.58
(1,2323)	1:28:A:LEU:HD22	1:95:A:LEU:HD22	10	0.58
(1,2323)	1:28:A:LEU:HD22	1:95:A:LEU:HD23	10	0.58
(1,2323)	1:28:A:LEU:HD23	1:95:A:LEU:HD21	10	0.58
(1,2323)	1:28:A:LEU:HD23	1:95:A:LEU:HD22	10	0.58
(1,2323)	1:28:A:LEU:HD23	1:95:A:LEU:HD23	10	0.58
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	9	0.58
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	9	0.58
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	9	0.58
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	6	0.58
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	6	0.58
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	6	0.58
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	7	0.58
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	7	0.58
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	7	0.58
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	7	0.58
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	7	0.58
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	7	0.58
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	7	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	7	0.58
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	7	0.58
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	2	0.58
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	2	0.58
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	2	0.58
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	3	0.58
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	3	0.58
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	3	0.58
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG21	9	0.58
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG22	9	0.58
(1,785)	1:120:A:PHE:HA	1:74:A:VAL:HG23	9	0.58
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	6	0.58
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	6	0.58
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	6	0.58
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	7	0.58
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	7	0.58
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	7	0.58
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	8	0.57
(1,3558)	1:55:A:GLU:H	1:55:A:GLU:HB2	9	0.57
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	3	0.57
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	3	0.57
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	3	0.57
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	4	0.57
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	4	0.57
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	4	0.57
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	1	0.57
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	10	0.57
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	10	0.57
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	8	0.57
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	8	0.57
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	8	0.57
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	10	0.57
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	10	0.57
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	10	0.57
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	9	0.57
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	9	0.57
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	9	0.57
(1,1930)	1:40:A:LEU:HB3	1:23:A:SER:HB3	3	0.57
(1,1844)	1:9:A:ILE:HG21	1:55:A:GLU:HB2	2	0.57
(1,1844)	1:9:A:ILE:HG22	1:55:A:GLU:HB2	2	0.57
(1,1844)	1:9:A:ILE:HG23	1:55:A:GLU:HB2	2	0.57
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG21	9	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG22	9	0.57
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG23	9	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	1	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	1	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	1	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	4	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	4	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	4	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	5	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	5	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	5	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	6	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	6	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	6	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	7	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	7	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	7	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	8	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	8	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	8	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	9	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	9	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	9	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD11	10	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD12	10	0.57
(1,1010)	1:50:A:LEU:HB3	1:50:A:LEU:HD13	10	0.57
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	5	0.57
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	5	0.57
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	5	0.57
(1,4655)	1:128:A:VAL:H	1:121:A:GLU:HB3	1	0.56
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	9	0.56
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	9	0.56
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	9	0.56
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	7	0.56
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	7	0.56
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	7	0.56
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	7	0.56
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	7	0.56
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	7	0.56
(1,2634)	1:73:A:MET:HG2	1:56:A:SER:HB3	6	0.56
(1,2468)	1:138:A:ALA:HB1	1:133:A:LYS:HB3	10	0.56
(1,2468)	1:138:A:ALA:HB2	1:133:A:LYS:HB3	10	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2468)	1:138:A:ALA:HB3	1:133:A:LYS:HB3	10	0.56
(1,2287)	1:87:A:ASN:HA	1:139:A:LEU:HD11	7	0.56
(1,2287)	1:87:A:ASN:HA	1:139:A:LEU:HD12	7	0.56
(1,2287)	1:87:A:ASN:HA	1:139:A:LEU:HD13	7	0.56
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	5	0.56
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	5	0.56
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	5	0.56
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	3	0.56
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	3	0.56
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	3	0.56
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	1	0.56
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	1	0.56
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	1	0.56
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	1	0.56
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	1	0.56
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	1	0.56
(1,4297)	1:28:A:LEU:H	1:28:A:LEU:HB3	3	0.55
(1,3558)	1:55:A:GLU:H	1:55:A:GLU:HB2	2	0.55
(1,3558)	1:55:A:GLU:H	1:55:A:GLU:HB2	10	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	1	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	1	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	1	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	3	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	3	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	3	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	5	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	5	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	5	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	7	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	7	0.55
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	7	0.55
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	8	0.55
(1,2899)	1:23:A:SER:H	1:23:A:SER:HB3	10	0.55
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	5	0.55
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	5	0.55
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	5	0.55
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	6	0.55
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	6	0.55
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	6	0.55
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	1	0.55
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	1	0.55
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,359)	1:132:A:VAL:HG11	1:131:A:GLY:HA3	10	0.55
(1,359)	1:132:A:VAL:HG12	1:131:A:GLY:HA3	10	0.55
(1,359)	1:132:A:VAL:HG13	1:131:A:GLY:HA3	10	0.55
(1,3948)	1:90:A:GLU:H	1:89:A:LYS:HB3	8	0.54
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	3	0.54
(1,3630)	1:70:A:LYS:H	1:70:A:LYS:HB3	4	0.54
(1,3558)	1:55:A:GLU:H	1:55:A:GLU:HB2	1	0.54
(1,3558)	1:55:A:GLU:H	1:55:A:GLU:HB2	3	0.54
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	8	0.54
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	8	0.54
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	8	0.54
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG11	10	0.54
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG12	10	0.54
(1,3541)	1:37:A:VAL:H	1:37:A:VAL:HG13	10	0.54
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	6	0.54
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	6	0.54
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	6	0.54
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	6	0.54
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	6	0.54
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	6	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	2	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	2	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	2	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	3	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	3	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	3	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	8	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	8	0.54
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	8	0.54
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG21	9	0.54
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG22	9	0.54
(1,2396)	1:112:A:ASN:HB3	1:118:A:VAL:HG23	9	0.54
(1,1865)	1:16:A:LEU:HD11	1:155:A:PHE:HZ	6	0.54
(1,1865)	1:16:A:LEU:HD12	1:155:A:PHE:HZ	6	0.54
(1,1865)	1:16:A:LEU:HD13	1:155:A:PHE:HZ	6	0.54
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	1	0.54
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	1	0.54
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	1	0.54
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	4	0.53
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	3	0.53
(1,3948)	1:90:A:GLU:H	1:89:A:LYS:HB3	6	0.53
(1,3948)	1:90:A:GLU:H	1:89:A:LYS:HB3	9	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD11	5	0.53
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD12	5	0.53
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD13	5	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	3	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	3	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	3	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	4	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	4	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	4	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	9	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	9	0.53
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	9	0.53
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	4	0.53
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	4	0.53
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	4	0.53
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	5	0.53
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	5	0.53
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	5	0.53
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	8	0.53
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	8	0.53
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	8	0.53
(1,2397)	1:118:A:VAL:HG21	1:113:A:MET:HG2	5	0.53
(1,2397)	1:118:A:VAL:HG22	1:113:A:MET:HG2	5	0.53
(1,2397)	1:118:A:VAL:HG23	1:113:A:MET:HG2	5	0.53
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG21	4	0.53
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG22	4	0.53
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG23	4	0.53
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	9	0.52
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	9	0.52
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	9	0.52
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	10	0.52
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	10	0.52
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	10	0.52
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	5	0.52
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	5	0.52
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	5	0.52
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	1	0.52
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	1	0.52
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	1	0.52
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG21	9	0.52
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG22	9	0.52
(1,2746)	1:74:A:VAL:H	1:74:A:VAL:HG23	9	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2444)	1:133:A:LYS:HG3	1:134:A:ASP:HB3	1	0.52
(1,2326)	1:28:A:LEU:HD11	1:35:A:ILE:HG13	10	0.52
(1,2326)	1:28:A:LEU:HD12	1:35:A:ILE:HG13	10	0.52
(1,2326)	1:28:A:LEU:HD13	1:35:A:ILE:HG13	10	0.52
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG21	4	0.52
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG22	4	0.52
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG23	4	0.52
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	1	0.52
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	1	0.52
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	1	0.52
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	1	0.52
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	1	0.52
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	1	0.52
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	1	0.52
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	1	0.52
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	1	0.52
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	3	0.52
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	3	0.52
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	3	0.52
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	1	0.51
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	6	0.51
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	6	0.51
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	6	0.51
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	6	0.51
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	8	0.51
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	8	0.51
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	8	0.51
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	3	0.51
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	3	0.51
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	3	0.51
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	2	0.51
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	2	0.51
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	2	0.51
(1,2634)	1:73:A:MET:HG2	1:56:A:SER:HB3	3	0.51
(1,2534)	1:159:A:GLU:HA	1:48:A:LYS:HG2	4	0.51
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	10	0.51
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	10	0.51
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	10	0.51
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	10	0.51
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	10	0.51
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	10	0.51
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	10	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	10	0.51
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	10	0.51
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	10	0.51
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	10	0.51
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	10	0.51
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG21	4	0.5
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG22	4	0.5
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG23	4	0.5
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	2	0.5
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	1	0.5
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	1	0.5
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	1	0.5
(1,2899)	1:23:A:SER:H	1:23:A:SER:HB3	8	0.5
(1,2635)	1:73:A:MET:HG3	1:56:A:SER:HB3	10	0.5
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	7	0.5
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	7	0.5
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	7	0.5
(1,2001)	1:142:A:VAL:HG21	1:129:A:PHE:HZ	7	0.5
(1,2001)	1:142:A:VAL:HG22	1:129:A:PHE:HZ	7	0.5
(1,2001)	1:142:A:VAL:HG23	1:129:A:PHE:HZ	7	0.5
(1,1847)	1:9:A:ILE:HG21	1:55:A:GLU:HG2	6	0.5
(1,1847)	1:9:A:ILE:HG22	1:55:A:GLU:HG2	6	0.5
(1,1847)	1:9:A:ILE:HG23	1:55:A:GLU:HG2	6	0.5
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	4	0.5
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	4	0.5
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	4	0.5
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG21	7	0.5
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG22	7	0.5
(1,1337)	1:125:A:ASP:HB3	1:128:A:VAL:HG23	7	0.5
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	2	0.49
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	7	0.49
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	7	0.49
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	7	0.49
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	7	0.49
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG11	1	0.49
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG12	1	0.49
(1,2797)	1:49:A:VAL:H	1:49:A:VAL:HG13	1	0.49
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	10	0.49
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	10	0.49
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	10	0.49
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	4	0.49
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	4	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	4	0.49
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	4	0.49
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	4	0.49
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	4	0.49
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	4	0.49
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	4	0.49
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	4	0.49
(1,1937)	1:40:A:LEU:HD21	1:44:A:GLU:HB3	4	0.49
(1,1937)	1:40:A:LEU:HD22	1:44:A:GLU:HB3	4	0.49
(1,1937)	1:40:A:LEU:HD23	1:44:A:GLU:HB3	4	0.49
(1,1395)	1:71:A:MET:HE1	1:58:A:HIS:HB3	10	0.49
(1,1395)	1:71:A:MET:HE2	1:58:A:HIS:HB3	10	0.49
(1,1395)	1:71:A:MET:HE3	1:58:A:HIS:HB3	10	0.49
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	5	0.48
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	5	0.48
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	5	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	4	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	4	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	4	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	7	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	7	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	7	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	9	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	9	0.48
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	9	0.48
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	8	0.48
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	8	0.48
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	8	0.48
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	5	0.48
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	5	0.48
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	5	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	1	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	1	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	1	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	1	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	1	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	1	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	1	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	1	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	1	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	3	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	3	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	3	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	3	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	3	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	3	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	3	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	3	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	8	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	8	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	8	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	8	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	8	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	8	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	8	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	8	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	8	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	9	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	9	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	9	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	9	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	9	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	9	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	9	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	9	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	9	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	10	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	10	0.48
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	10	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	10	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	10	0.48
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	10	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	10	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	10	0.48
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	10	0.48
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	9	0.48
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	9	0.48
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	9	0.48
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD11	5	0.48
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD12	5	0.48
(1,1950)	1:44:A:GLU:HB3	1:40:A:LEU:HD13	5	0.48
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG11	7	0.48
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG12	7	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1391)	1:71:A:MET:HE1	1:109:A:VAL:HG13	7	0.48
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG11	7	0.48
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG12	7	0.48
(1,1391)	1:71:A:MET:HE2	1:109:A:VAL:HG13	7	0.48
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG11	7	0.48
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG12	7	0.48
(1,1391)	1:71:A:MET:HE3	1:109:A:VAL:HG13	7	0.48
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG21	2	0.48
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG22	2	0.48
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG23	2	0.48
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	7	0.48
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	7	0.48
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	7	0.48
(1,295)	1:118:A:VAL:HG11	1:155:A:PHE:HB2	9	0.48
(1,295)	1:118:A:VAL:HG12	1:155:A:PHE:HB2	9	0.48
(1,295)	1:118:A:VAL:HG13	1:155:A:PHE:HB2	9	0.48
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	7	0.47
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	1	0.47
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	1	0.47
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	1	0.47
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	5	0.47
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	8	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	6	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	6	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	6	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	9	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	9	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	9	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	10	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	10	0.47
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	10	0.47
(1,3604)	1:7:A:SER:H	1:54:A:TYR:HB2	10	0.47
(1,3558)	1:55:A:GLU:H	1:55:A:GLU:HB2	8	0.47
(1,3349)	1:157:A:LEU:H	1:118:A:VAL:HG11	9	0.47
(1,3349)	1:157:A:LEU:H	1:118:A:VAL:HG12	9	0.47
(1,3349)	1:157:A:LEU:H	1:118:A:VAL:HG13	9	0.47
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	4	0.47
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	4	0.47
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	4	0.47
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	8	0.47
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	8	0.47
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	8	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	8	0.47
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	8	0.47
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	8	0.47
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	3	0.47
(1,2899)	1:23:A:SER:H	1:23:A:SER:HB3	9	0.47
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	1	0.47
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	9	0.47
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	2	0.47
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	2	0.47
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	2	0.47
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	2	0.47
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	2	0.47
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	2	0.47
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	2	0.47
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	2	0.47
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	2	0.47
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	7	0.47
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	7	0.47
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	7	0.47
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	7	0.47
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	7	0.47
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	7	0.47
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	7	0.47
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	7	0.47
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	7	0.47
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	9	0.47
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	9	0.47
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	9	0.47
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	1	0.47
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	6	0.46
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	10	0.46
(1,3384)	1:40:A:LEU:H	1:23:A:SER:HB3	9	0.46
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	9	0.46
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	4	0.46
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	6	0.46
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	6	0.46
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	6	0.46
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	6	0.46
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	6	0.46
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	6	0.46
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	6	0.46
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	6	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	6	0.46
(1,1892)	1:28:A:LEU:HB2	1:33:A:TYR:HE1	4	0.46
(1,1892)	1:28:A:LEU:HB2	1:33:A:TYR:HE2	4	0.46
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	8	0.46
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	10	0.46
(1,4655)	1:128:A:VAL:H	1:121:A:GLU:HB3	10	0.45
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	6	0.45
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	6	0.45
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	6	0.45
(1,4303)	1:31:A:GLU:H	1:30:A:ASP:HB3	3	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	1	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	1	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	1	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	4	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	4	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	4	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	5	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	5	0.45
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	5	0.45
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	3	0.45
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	7	0.45
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	8	0.45
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	7	0.45
(1,2640)	1:79:A:THR:HG21	1:78:A:PRO:HG3	1	0.45
(1,2640)	1:79:A:THR:HG22	1:78:A:PRO:HG3	1	0.45
(1,2640)	1:79:A:THR:HG23	1:78:A:PRO:HG3	1	0.45
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG21	5	0.45
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG22	5	0.45
(1,2622)	1:37:A:VAL:HG21	1:18:A:THR:HG23	5	0.45
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG21	5	0.45
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG22	5	0.45
(1,2622)	1:37:A:VAL:HG22	1:18:A:THR:HG23	5	0.45
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG21	5	0.45
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG22	5	0.45
(1,2622)	1:37:A:VAL:HG23	1:18:A:THR:HG23	5	0.45
(1,2105)	1:52:A:SER:HB3	1:8:A:PRO:HB2	6	0.45
(1,1227)	1:122:A:CYS:HB3	1:128:A:VAL:HB	4	0.45
(1,1227)	1:122:A:CYS:HB3	1:128:A:VAL:HB	7	0.45
(1,358)	1:132:A:VAL:HG11	1:155:A:PHE:HE1	3	0.45
(1,358)	1:132:A:VAL:HG11	1:155:A:PHE:HE2	3	0.45
(1,358)	1:132:A:VAL:HG12	1:155:A:PHE:HE1	3	0.45
(1,358)	1:132:A:VAL:HG12	1:155:A:PHE:HE2	3	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,358)	1:132:A:VAL:HG13	1:155:A:PHE:HE1	3	0.45
(1,358)	1:132:A:VAL:HG13	1:155:A:PHE:HE2	3	0.45
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	7	0.45
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	7	0.45
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	7	0.45
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	5	0.44
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	5	0.44
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	5	0.44
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	1	0.44
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	5	0.44
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	4	0.44
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	4	0.44
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	4	0.44
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	1	0.44
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	2	0.44
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	2	0.44
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	2	0.44
(1,3652)	1:44:A:GLU:H	1:44:A:GLU:HB3	2	0.44
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	3	0.44
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	3	0.44
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	3	0.44
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	5	0.44
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	5	0.44
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	5	0.44
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	9	0.44
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	9	0.44
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	9	0.44
(1,2899)	1:23:A:SER:H	1:23:A:SER:HB3	6	0.44
(1,2291)	1:88:A:ASN:HB3	1:125:A:ASP:HB3	2	0.44
(1,2133)	1:57:A:GLN:HB3	1:55:A:GLU:HG3	1	0.44
(1,1395)	1:71:A:MET:HE1	1:58:A:HIS:HB3	8	0.44
(1,1395)	1:71:A:MET:HE2	1:58:A:HIS:HB3	8	0.44
(1,1395)	1:71:A:MET:HE3	1:58:A:HIS:HB3	8	0.44
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD21	6	0.44
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD22	6	0.44
(1,1276)	1:147:A:ASN:HB2	1:148:A:LEU:HD23	6	0.44
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	2	0.44
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	2	0.44
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	2	0.44
(1,379)	1:28:A:LEU:HD21	1:26:A:PHE:HB2	9	0.44
(1,379)	1:28:A:LEU:HD22	1:26:A:PHE:HB2	9	0.44
(1,379)	1:28:A:LEU:HD23	1:26:A:PHE:HB2	9	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:6:A:ILE:HD11	1:54:A:TYR:HB2	5	0.44
(1,238)	1:6:A:ILE:HD12	1:54:A:TYR:HB2	5	0.44
(1,238)	1:6:A:ILE:HD13	1:54:A:TYR:HB2	5	0.44
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	6	0.43
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	6	0.43
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	6	0.43
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG11	8	0.43
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG12	8	0.43
(1,3778)	1:93:A:VAL:H	1:93:A:VAL:HG13	8	0.43
(1,3136)	1:86:A:ALA:H	1:105:A:GLN:HB2	7	0.43
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	1	0.43
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	1	0.43
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	1	0.43
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	6	0.43
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	6	0.43
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	6	0.43
(1,2899)	1:23:A:SER:H	1:23:A:SER:HB3	2	0.43
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	6	0.43
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	8	0.43
(1,2444)	1:133:A:LYS:HG3	1:134:A:ASP:HB3	3	0.43
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	2	0.43
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	2	0.43
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	2	0.43
(1,1331)	1:122:A:CYS:HB3	1:125:A:ASP:HB3	5	0.43
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD1	9	0.43
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD2	9	0.43
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD1	9	0.43
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD2	9	0.43
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD1	9	0.43
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD2	9	0.43
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	6	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	6	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	6	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	7	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	7	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	7	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	8	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	8	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	8	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	10	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	10	0.42
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	10	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	2	0.42
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	7	0.42
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	7	0.42
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	7	0.42
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	3	0.42
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	3	0.42
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	3	0.42
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	5	0.42
(1,1865)	1:16:A:LEU:HD11	1:155:A:PHE:HZ	7	0.42
(1,1865)	1:16:A:LEU:HD12	1:155:A:PHE:HZ	7	0.42
(1,1865)	1:16:A:LEU:HD13	1:155:A:PHE:HZ	7	0.42
(1,1126)	1:110:A:LEU:HD11	1:120:A:PHE:HA	8	0.42
(1,1126)	1:110:A:LEU:HD12	1:120:A:PHE:HA	8	0.42
(1,1126)	1:110:A:LEU:HD13	1:120:A:PHE:HA	8	0.42
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD11	10	0.42
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD12	10	0.42
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD13	10	0.42
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	10	0.42
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	10	0.42
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	10	0.42
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	6	0.42
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	6	0.42
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	6	0.42
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	10	0.42
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	10	0.42
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	10	0.42
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	10	0.42
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	10	0.42
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	10	0.42
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	5	0.41
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	5	0.41
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	5	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	2	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	2	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	2	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	4	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	4	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	4	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	9	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	9	0.41
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	9	0.41
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	9	0.41
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	9	0.41
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	9	0.41
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	9	0.41
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	9	0.41
(1,4352)	1:55:A:GLU:H	1:55:A:GLU:HG2	5	0.41
(1,3196)	1:38:A:GLU:H	1:38:A:GLU:HG3	10	0.41
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	9	0.41
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	9	0.41
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	9	0.41
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD21	6	0.41
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD22	6	0.41
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD23	6	0.41
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	1	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	2	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	2	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	2	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	5	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	5	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	5	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	7	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	7	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	7	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	10	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	10	0.41
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	10	0.41
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	2	0.41
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD1	7	0.41
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD2	7	0.41
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD1	7	0.41
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD2	7	0.41
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD1	7	0.41
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD2	7	0.41
(1,825)	1:49:A:VAL:HG11	1:15:A:SER:HA	7	0.41
(1,825)	1:49:A:VAL:HG12	1:15:A:SER:HA	7	0.41
(1,825)	1:49:A:VAL:HG13	1:15:A:SER:HA	7	0.41
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	4	0.41
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	4	0.41
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	4	0.41
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG21	7	0.41
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG22	7	0.41
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG23	7	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	6	0.4
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	6	0.4
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	6	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	1	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	1	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	1	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	3	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	3	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	3	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG11	5	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG12	5	0.4
(1,4497)	1:132:A:VAL:H	1:132:A:VAL:HG13	5	0.4
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	6	0.4
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	8	0.4
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	9	0.4
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	10	0.4
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	2	0.4
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	2	0.4
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	2	0.4
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	4	0.4
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	5	0.4
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	5	0.4
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	5	0.4
(1,2899)	1:23:A:SER:H	1:23:A:SER:HB3	4	0.4
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	6	0.4
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	6	0.4
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	6	0.4
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	9	0.4
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	9	0.4
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	9	0.4
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	1	0.4
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	1	0.4
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	1	0.4
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	8	0.4
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	8	0.4
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	8	0.4
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	9	0.4
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	9	0.4
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	9	0.4
(1,2444)	1:133:A:LYS:HG3	1:134:A:ASP:HB3	6	0.4
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	5	0.4
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG11	4	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG12	4	0.4
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG13	4	0.4
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD21	2	0.4
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD22	2	0.4
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD23	2	0.4
(1,298)	1:118:A:VAL:HG11	1:157:A:LEU:HB3	9	0.4
(1,298)	1:118:A:VAL:HG12	1:157:A:LEU:HB3	9	0.4
(1,298)	1:118:A:VAL:HG13	1:157:A:LEU:HB3	9	0.4
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	2	0.39
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	2	0.39
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	2	0.39
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	7	0.39
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	5	0.39
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	5	0.39
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	5	0.39
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	2	0.39
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	3	0.39
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	6	0.39
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	6	0.39
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	6	0.39
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	1	0.39
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	1	0.39
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	1	0.39
(1,2795)	1:156:A:LYS:H	1:118:A:VAL:HG11	9	0.39
(1,2795)	1:156:A:LYS:H	1:118:A:VAL:HG12	9	0.39
(1,2795)	1:156:A:LYS:H	1:118:A:VAL:HG13	9	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	1	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	1	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	1	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	3	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	3	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	3	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	4	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	4	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	4	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG11	8	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG12	8	0.39
(1,2679)	1:109:A:VAL:H	1:109:A:VAL:HG13	8	0.39
(1,1227)	1:122:A:CYS:HB3	1:128:A:VAL:HB	9	0.39
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD11	9	0.39
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD12	9	0.39
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD13	9	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	10	0.39
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	10	0.39
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	10	0.39
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	8	0.39
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	8	0.39
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	8	0.39
(1,4352)	1:55:A:GLU:H	1:55:A:GLU:HG2	4	0.38
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	6	0.38
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	6	0.38
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	6	0.38
(1,4309)	1:37:A:VAL:H	1:135:A:ASN:HB2	5	0.38
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	9	0.38
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	10	0.38
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	10	0.38
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	10	0.38
(1,2901)	1:23:A:SER:H	1:22:A:GLN:HB2	10	0.38
(1,2641)	1:86:A:ALA:HB1	1:88:A:ASN:HB3	10	0.38
(1,2641)	1:86:A:ALA:HB2	1:88:A:ASN:HB3	10	0.38
(1,2641)	1:86:A:ALA:HB3	1:88:A:ASN:HB3	10	0.38
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	2	0.38
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	2	0.38
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	2	0.38
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG21	3	0.38
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG22	3	0.38
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG23	3	0.38
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD21	9	0.38
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD22	9	0.38
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD23	9	0.38
(1,825)	1:49:A:VAL:HG11	1:15:A:SER:HA	8	0.38
(1,825)	1:49:A:VAL:HG12	1:15:A:SER:HA	8	0.38
(1,825)	1:49:A:VAL:HG13	1:15:A:SER:HA	8	0.38
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	1	0.38
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	1	0.38
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	1	0.38
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	8	0.38
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	8	0.38
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	8	0.38
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	7	0.38
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	7	0.38
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	7	0.38
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	7	0.38
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	7	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	7	0.38
(1,4606)	1:15:A:SER:H	1:48:A:LYS:HG2	3	0.37
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	10	0.37
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	10	0.37
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	10	0.37
(1,4383)	1:72:A:LEU:H	1:71:A:MET:HB3	3	0.37
(1,3785)	1:93:A:VAL:H	1:92:A:SER:HB2	10	0.37
(1,3196)	1:38:A:GLU:H	1:38:A:GLU:HG3	1	0.37
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD11	8	0.37
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD12	8	0.37
(1,3170)	1:111:A:HIS:H	1:110:A:LEU:HD13	8	0.37
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG21	2	0.37
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG22	2	0.37
(1,2968)	1:133:A:LYS:H	1:132:A:VAL:HG23	2	0.37
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD21	7	0.37
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD22	7	0.37
(1,2822)	1:15:A:SER:H	1:51:A:LEU:HD23	7	0.37
(1,1762)	1:95:A:LEU:HD11	1:35:A:ILE:HG13	1	0.37
(1,1762)	1:95:A:LEU:HD12	1:35:A:ILE:HG13	1	0.37
(1,1762)	1:95:A:LEU:HD13	1:35:A:ILE:HG13	1	0.37
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	8	0.37
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	8	0.37
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	8	0.37
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	2	0.37
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	2	0.37
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	2	0.37
(1,4655)	1:128:A:VAL:H	1:121:A:GLU:HB3	5	0.36
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	1	0.36
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	1	0.36
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	1	0.36
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	10	0.36
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	10	0.36
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	10	0.36
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	4	0.36
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	4	0.36
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	4	0.36
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	7	0.36
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	5	0.36
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	7	0.36
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	4	0.36
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	4	0.36
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	4	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	3	0.36
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	7	0.36
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	7	0.36
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	7	0.36
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	3	0.36
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	8	0.36
(1,2314)	1:26:A:PHE:HB2	1:95:A:LEU:HD21	10	0.36
(1,2314)	1:26:A:PHE:HB2	1:95:A:LEU:HD22	10	0.36
(1,2314)	1:26:A:PHE:HB2	1:95:A:LEU:HD23	10	0.36
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	10	0.36
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD11	6	0.36
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD12	6	0.36
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD13	6	0.36
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD11	6	0.36
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD12	6	0.36
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD13	6	0.36
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD11	6	0.36
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD12	6	0.36
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD13	6	0.36
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD21	5	0.36
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD22	5	0.36
(1,1277)	1:147:A:ASN:HB3	1:148:A:LEU:HD23	5	0.36
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG11	8	0.36
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG12	8	0.36
(1,1194)	1:157:A:LEU:HD11	1:118:A:VAL:HG13	8	0.36
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG11	8	0.36
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG12	8	0.36
(1,1194)	1:157:A:LEU:HD12	1:118:A:VAL:HG13	8	0.36
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG11	8	0.36
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG12	8	0.36
(1,1194)	1:157:A:LEU:HD13	1:118:A:VAL:HG13	8	0.36
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD21	4	0.36
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD22	4	0.36
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD23	4	0.36
(1,980)	1:28:A:LEU:HD21	1:28:A:LEU:HA	7	0.36
(1,980)	1:28:A:LEU:HD22	1:28:A:LEU:HA	7	0.36
(1,980)	1:28:A:LEU:HD23	1:28:A:LEU:HA	7	0.36
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	2	0.36
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	2	0.36
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	2	0.36
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	8	0.36
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	8	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	8	0.36
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	6	0.36
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	6	0.36
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	6	0.36
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	8	0.36
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	8	0.36
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	8	0.36
(1,4352)	1:55:A:GLU:H	1:55:A:GLU:HG2	7	0.35
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	3	0.35
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	5	0.35
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	2	0.35
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG21	10	0.35
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG22	10	0.35
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG23	10	0.35
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG21	2	0.35
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG22	2	0.35
(1,2916)	1:110:A:LEU:H	1:109:A:VAL:HG23	2	0.35
(1,2899)	1:23:A:SER:H	1:23:A:SER:HB3	7	0.35
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	10	0.35
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD11	7	0.35
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD12	7	0.35
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD13	7	0.35
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD11	7	0.35
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD12	7	0.35
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD13	7	0.35
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD11	7	0.35
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD12	7	0.35
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD13	7	0.35
(1,1762)	1:95:A:LEU:HD11	1:35:A:ILE:HG13	4	0.35
(1,1762)	1:95:A:LEU:HD12	1:35:A:ILE:HG13	4	0.35
(1,1762)	1:95:A:LEU:HD13	1:35:A:ILE:HG13	4	0.35
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD1	6	0.35
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD2	6	0.35
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD1	6	0.35
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD2	6	0.35
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD1	6	0.35
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD2	6	0.35
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD21	7	0.35
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD22	7	0.35
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD23	7	0.35
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	3	0.35
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	3	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	3	0.35
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	9	0.35
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	9	0.35
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	9	0.35
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	2	0.34
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	2	0.34
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	2	0.34
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	8	0.34
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	8	0.34
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	8	0.34
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	3	0.34
(1,4225)	1:53:A:TYR:H	1:8:A:PRO:HB3	6	0.34
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	10	0.34
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	10	0.34
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	10	0.34
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	7	0.34
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	9	0.34
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG21	3	0.34
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG22	3	0.34
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG23	3	0.34
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG21	7	0.34
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG22	7	0.34
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG23	7	0.34
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	6	0.34
(1,3134)	1:86:A:ALA:H	1:105:A:GLN:HG3	7	0.34
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD11	7	0.34
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD12	7	0.34
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD13	7	0.34
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD11	7	0.34
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD12	7	0.34
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD13	7	0.34
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD11	7	0.34
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD12	7	0.34
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD13	7	0.34
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	3	0.34
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	3	0.34
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	3	0.34
(1,2259)	1:81:A:ASP:HB3	1:97:A:LYS:HG2	2	0.34
(1,1877)	1:21:A:ASP:HA	1:156:A:LYS:HD2	4	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	1	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	2	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	3	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	4	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	5	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	6	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	7	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	8	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	9	0.34
(1,1703)	1:31:A:GLU:HB2	1:31:A:GLU:HG2	10	0.34
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD21	2	0.34
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD22	2	0.34
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD23	2	0.34
(1,868)	1:118:A:VAL:HA	1:113:A:MET:HG2	3	0.34
(1,868)	1:118:A:VAL:HA	1:113:A:MET:HG2	7	0.34
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	7	0.34
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	7	0.34
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	7	0.34
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	1	0.34
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	1	0.34
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	1	0.34
(1,293)	1:118:A:VAL:HG11	1:157:A:LEU:HG	1	0.34
(1,293)	1:118:A:VAL:HG12	1:157:A:LEU:HG	1	0.34
(1,293)	1:118:A:VAL:HG13	1:157:A:LEU:HG	1	0.34
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	1	0.33
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	8	0.33
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	8	0.33
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	8	0.33
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	4	0.33
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	2	0.33
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	7	0.33
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	10	0.33
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	8	0.33
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	2	0.33
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	5	0.33
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	3	0.33
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	3	0.33
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	3	0.33
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	3	0.33
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	3	0.33
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	3	0.33
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	3	0.33
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	3	0.33
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	3	0.33
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG11	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG12	7	0.33
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG13	7	0.33
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	1	0.33
(1,1844)	1:9:A:ILE:HG21	1:55:A:GLU:HB2	10	0.33
(1,1844)	1:9:A:ILE:HG22	1:55:A:GLU:HB2	10	0.33
(1,1844)	1:9:A:ILE:HG23	1:55:A:GLU:HB2	10	0.33
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG11	5	0.33
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG12	5	0.33
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG13	5	0.33
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD11	5	0.33
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD12	5	0.33
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD13	5	0.33
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD1	4	0.33
(1,1036)	1:51:A:LEU:HD11	1:53:A:TYR:HD2	4	0.33
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD1	4	0.33
(1,1036)	1:51:A:LEU:HD12	1:53:A:TYR:HD2	4	0.33
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD1	4	0.33
(1,1036)	1:51:A:LEU:HD13	1:53:A:TYR:HD2	4	0.33
(1,979)	1:16:A:LEU:HD21	1:24:A:ILE:HG21	7	0.33
(1,979)	1:16:A:LEU:HD21	1:24:A:ILE:HG22	7	0.33
(1,979)	1:16:A:LEU:HD21	1:24:A:ILE:HG23	7	0.33
(1,979)	1:16:A:LEU:HD22	1:24:A:ILE:HG21	7	0.33
(1,979)	1:16:A:LEU:HD22	1:24:A:ILE:HG22	7	0.33
(1,979)	1:16:A:LEU:HD22	1:24:A:ILE:HG23	7	0.33
(1,979)	1:16:A:LEU:HD23	1:24:A:ILE:HG21	7	0.33
(1,979)	1:16:A:LEU:HD23	1:24:A:ILE:HG22	7	0.33
(1,979)	1:16:A:LEU:HD23	1:24:A:ILE:HG23	7	0.33
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	3	0.32
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	3	0.32
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	3	0.32
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	7	0.32
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	7	0.32
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	7	0.32
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG11	9	0.32
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG12	9	0.32
(1,4525)	1:142:A:VAL:H	1:142:A:VAL:HG13	9	0.32
(1,4491)	1:128:A:VAL:H	1:122:A:CYS:HB3	1	0.32
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	5	0.32
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	9	0.32
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	9	0.32
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	9	0.32
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	6	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	10	0.32
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD11	6	0.32
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD12	6	0.32
(1,3700)	1:160:A:THR:H	1:13:A:LEU:HD13	6	0.32
(1,3649)	1:44:A:GLU:H	1:44:A:GLU:HG2	5	0.32
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	3	0.32
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	3	0.32
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	4	0.32
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	5	0.32
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	6	0.32
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	8	0.32
(1,3471)	1:99:A:GLU:H	1:99:A:GLU:HB3	9	0.32
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	3	0.32
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	3	0.32
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	3	0.32
(1,2861)	1:130:A:ILE:H	1:129:A:PHE:HB2	1	0.32
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	3	0.32
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD11	6	0.32
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD12	6	0.32
(1,2637)	1:16:A:LEU:HD21	1:76:A:LEU:HD13	6	0.32
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD11	6	0.32
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD12	6	0.32
(1,2637)	1:16:A:LEU:HD22	1:76:A:LEU:HD13	6	0.32
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD11	6	0.32
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD12	6	0.32
(1,2637)	1:16:A:LEU:HD23	1:76:A:LEU:HD13	6	0.32
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	4	0.32
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	4	0.32
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	4	0.32
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD21	6	0.32
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD22	6	0.32
(1,1025)	1:51:A:LEU:HA	1:51:A:LEU:HD23	6	0.32
(1,951)	1:13:A:LEU:HB3	1:13:A:LEU:HD21	8	0.32
(1,951)	1:13:A:LEU:HB3	1:13:A:LEU:HD22	8	0.32
(1,951)	1:13:A:LEU:HB3	1:13:A:LEU:HD23	8	0.32
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	3	0.32
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	3	0.32
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	3	0.32
(1,816)	1:49:A:VAL:HG21	1:76:A:LEU:HB2	9	0.32
(1,816)	1:49:A:VAL:HG22	1:76:A:LEU:HB2	9	0.32
(1,816)	1:49:A:VAL:HG23	1:76:A:LEU:HB2	9	0.32
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	3	0.32
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	3	0.32
(1,4655)	1:128:A:VAL:H	1:121:A:GLU:HB3	7	0.31
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	4	0.31
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	4	0.31
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	4	0.31
(1,3959)	1:119:A:SER:H	1:113:A:MET:HG2	7	0.31
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	1	0.31
(1,3196)	1:38:A:GLU:H	1:38:A:GLU:HG3	9	0.31
(1,3134)	1:86:A:ALA:H	1:105:A:GLN:HG3	10	0.31
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	2	0.31
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	4	0.31
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG21	7	0.31
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG22	7	0.31
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG23	7	0.31
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	2	0.31
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	2	0.31
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	2	0.31
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG11	2	0.31
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG12	2	0.31
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG13	2	0.31
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG21	10	0.31
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG22	10	0.31
(1,1380)	1:71:A:MET:HB3	1:109:A:VAL:HG23	10	0.31
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG21	5	0.31
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG22	5	0.31
(1,1076)	1:84:A:LEU:HA	1:93:A:VAL:HG23	5	0.31
(1,825)	1:49:A:VAL:HG11	1:15:A:SER:HA	1	0.31
(1,825)	1:49:A:VAL:HG12	1:15:A:SER:HA	1	0.31
(1,825)	1:49:A:VAL:HG13	1:15:A:SER:HA	1	0.31
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG21	1	0.31
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG22	1	0.31
(1,508)	1:129:A:PHE:HB3	1:153:A:ILE:HG23	1	0.31
(1,358)	1:132:A:VAL:HG11	1:155:A:PHE:HE1	1	0.31
(1,358)	1:132:A:VAL:HG11	1:155:A:PHE:HE2	1	0.31
(1,358)	1:132:A:VAL:HG12	1:155:A:PHE:HE1	1	0.31
(1,358)	1:132:A:VAL:HG12	1:155:A:PHE:HE2	1	0.31
(1,358)	1:132:A:VAL:HG13	1:155:A:PHE:HE1	1	0.31
(1,358)	1:132:A:VAL:HG13	1:155:A:PHE:HE2	1	0.31
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	3	0.31
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	3	0.31
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	3	0.31
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	3	0.31
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	3	0.31
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	3	0.3
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	3	0.3
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	3	0.3
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	2	0.3
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	2	0.3
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	2	0.3
(1,3948)	1:90:A:GLU:H	1:89:A:LYS:HB3	10	0.3
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	4	0.3
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	8	0.3
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	9	0.3
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	9	0.3
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	9	0.3
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	9	0.3
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	6	0.3
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE1	6	0.3
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE2	6	0.3
(1,2514)	1:148:A:LEU:HB2	1:113:A:MET:HE3	6	0.3
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG11	5	0.3
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG12	5	0.3
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG13	5	0.3
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG11	3	0.3
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG12	3	0.3
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG13	3	0.3
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	6	0.3
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	6	0.3
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	6	0.3
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD11	8	0.3
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD12	8	0.3
(1,1115)	1:110:A:LEU:HA	1:110:A:LEU:HD13	8	0.3
(1,1114)	1:110:A:LEU:HB3	1:110:A:LEU:HG	5	0.3
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	4	0.3
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	4	0.3
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	4	0.3
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	4	0.3
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	4	0.3
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	4	0.3
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	4	0.3
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	4	0.3
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	4	0.29
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	1	0.29
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	1	0.29
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	1	0.29
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	7	0.29
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	7	0.29
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	7	0.29
(1,4126)	1:79:A:THR:H	1:78:A:PRO:HB3	9	0.29
(1,4039)	1:21:A:ASP:H	1:17:A:SER:HB3	8	0.29
(1,3961)	1:119:A:SER:H	1:155:A:PHE:HB3	6	0.29
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	3	0.29
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG21	6	0.29
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG22	6	0.29
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG23	6	0.29
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	4	0.29
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	4	0.29
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	4	0.29
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD11	6	0.29
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD12	6	0.29
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD13	6	0.29
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	10	0.29
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	10	0.29
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	10	0.29
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	10	0.29
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	10	0.29
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	10	0.29
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	10	0.29
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	10	0.29
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	10	0.29
(1,1762)	1:95:A:LEU:HD11	1:35:A:ILE:HG13	8	0.29
(1,1762)	1:95:A:LEU:HD12	1:35:A:ILE:HG13	8	0.29
(1,1762)	1:95:A:LEU:HD13	1:35:A:ILE:HG13	8	0.29
(1,1114)	1:110:A:LEU:HB3	1:110:A:LEU:HG	8	0.29
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	4	0.29
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	4	0.29
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	4	0.29
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	8	0.29
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	8	0.29
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	8	0.29
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	1	0.29
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	1	0.29
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	1	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	4	0.29
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	4	0.29
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	4	0.29
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	6	0.29
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	6	0.29
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	6	0.29
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	6	0.29
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	6	0.29
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	6	0.29
(1,295)	1:118:A:VAL:HG11	1:155:A:PHE:HB2	1	0.29
(1,295)	1:118:A:VAL:HG12	1:155:A:PHE:HB2	1	0.29
(1,295)	1:118:A:VAL:HG13	1:155:A:PHE:HB2	1	0.29
(1,295)	1:118:A:VAL:HG11	1:155:A:PHE:HB2	2	0.29
(1,295)	1:118:A:VAL:HG12	1:155:A:PHE:HB2	2	0.29
(1,295)	1:118:A:VAL:HG13	1:155:A:PHE:HB2	2	0.29
(1,295)	1:118:A:VAL:HG11	1:155:A:PHE:HB2	6	0.29
(1,295)	1:118:A:VAL:HG12	1:155:A:PHE:HB2	6	0.29
(1,295)	1:118:A:VAL:HG13	1:155:A:PHE:HB2	6	0.29
(1,4655)	1:128:A:VAL:H	1:121:A:GLU:HB3	4	0.28
(1,3785)	1:93:A:VAL:H	1:92:A:SER:HB2	7	0.28
(1,3649)	1:44:A:GLU:H	1:44:A:GLU:HG2	10	0.28
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	2	0.28
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	2	0.28
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	2	0.28
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	2	0.28
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	3	0.28
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG21	2	0.28
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG22	2	0.28
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG23	2	0.28
(1,2553)	1:40:A:LEU:HB2	1:44:A:GLU:HB3	6	0.28
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	4	0.28
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	4	0.28
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	4	0.28
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	5	0.28
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	5	0.28
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	5	0.28
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	10	0.28
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	10	0.28
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	10	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	1	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	1	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	2	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	2	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	2	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	3	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	3	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	3	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	9	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	9	0.28
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	9	0.28
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	5	0.28
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	5	0.28
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	5	0.28
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	9	0.28
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	9	0.28
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	9	0.28
(1,814)	1:49:A:VAL:HG21	1:78:A:PRO:HD2	8	0.28
(1,814)	1:49:A:VAL:HG22	1:78:A:PRO:HD2	8	0.28
(1,814)	1:49:A:VAL:HG23	1:78:A:PRO:HD2	8	0.28
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	9	0.28
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	9	0.28
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	9	0.28
(1,4589)	1:47:A:ASP:H	1:46:A:LYS:HB2	9	0.27
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG21	2	0.27
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG22	2	0.27
(1,4418)	1:85:A:HIS:H	1:93:A:VAL:HG23	2	0.27
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG21	10	0.27
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG22	10	0.27
(1,4311)	1:38:A:GLU:H	1:37:A:VAL:HG23	10	0.27
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	9	0.27
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	9	0.27
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	9	0.27
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	10	0.27
(1,3430)	1:13:A:LEU:H	1:12:A:TYR:HB3	6	0.27
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	4	0.27
(1,3196)	1:38:A:GLU:H	1:38:A:GLU:HG3	5	0.27
(1,3134)	1:86:A:ALA:H	1:105:A:GLN:HG3	1	0.27
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG21	5	0.27
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG22	5	0.27
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG23	5	0.27
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG11	5	0.27
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG12	5	0.27
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG13	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	8	0.27
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	8	0.27
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	8	0.27
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	9	0.27
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	9	0.27
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	9	0.27
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	6	0.27
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	6	0.27
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	6	0.27
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	5	0.27
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	5	0.27
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	5	0.27
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	6	0.27
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	6	0.27
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	6	0.27
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD11	7	0.27
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD12	7	0.27
(1,998)	1:23:A:SER:HB3	1:40:A:LEU:HD13	7	0.27
(1,735)	1:19:A:TYR:HB3	1:154:A:LEU:HB3	4	0.27
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG21	8	0.26
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG22	8	0.26
(1,4432)	1:94:A:GLU:H	1:93:A:VAL:HG23	8	0.26
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	8	0.26
(1,3948)	1:90:A:GLU:H	1:89:A:LYS:HB3	5	0.26
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	6	0.26
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	8	0.26
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	10	0.26
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	2	0.26
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	8	0.26
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	8	0.26
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	8	0.26
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG21	5	0.26
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG22	5	0.26
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG23	5	0.26
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	3	0.26
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	3	0.26
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	3	0.26
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	4	0.26
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	4	0.26
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	4	0.26
(1,479)	1:17:A:SER:HB3	1:156:A:LYS:HB2	4	0.26
(1,373)	1:28:A:LEU:HD11	1:28:A:LEU:HB3	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:28:A:LEU:HD12	1:28:A:LEU:HB3	5	0.26
(1,373)	1:28:A:LEU:HD13	1:28:A:LEU:HB3	5	0.26
(1,373)	1:28:A:LEU:HD11	1:28:A:LEU:HB3	6	0.26
(1,373)	1:28:A:LEU:HD12	1:28:A:LEU:HB3	6	0.26
(1,373)	1:28:A:LEU:HD13	1:28:A:LEU:HB3	6	0.26
(1,4641)	1:135:A:ASN:H	1:134:A:ASP:HB2	2	0.25
(1,4590)	1:47:A:ASP:H	1:46:A:LYS:HB3	1	0.25
(1,4309)	1:37:A:VAL:H	1:135:A:ASN:HB2	10	0.25
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	1	0.25
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	1	0.25
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	1	0.25
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	8	0.25
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	8	0.25
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	8	0.25
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG21	3	0.25
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG22	3	0.25
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG23	3	0.25
(1,3961)	1:119:A:SER:H	1:155:A:PHE:HB3	5	0.25
(1,3959)	1:119:A:SER:H	1:113:A:MET:HG2	3	0.25
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	6	0.25
(1,3561)	1:55:A:GLU:H	1:54:A:TYR:HB2	6	0.25
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG21	10	0.25
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG22	10	0.25
(1,3289)	1:113:A:MET:H	1:118:A:VAL:HG23	10	0.25
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG21	8	0.25
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG22	8	0.25
(1,3201)	1:72:A:LEU:H	1:109:A:VAL:HG23	8	0.25
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	7	0.25
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	7	0.25
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	7	0.25
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	1	0.25
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	1	0.25
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	1	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	1	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	1	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	1	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	2	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	2	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	2	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	3	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	3	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	4	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	4	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	4	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	5	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	5	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	5	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	6	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	6	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	6	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	7	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	7	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	7	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	8	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	8	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	8	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	9	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	9	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	9	0.25
(1,2435)	1:130:A:ILE:HG21	1:130:A:ILE:HG13	10	0.25
(1,2435)	1:130:A:ILE:HG22	1:130:A:ILE:HG13	10	0.25
(1,2435)	1:130:A:ILE:HG23	1:130:A:ILE:HG13	10	0.25
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG11	4	0.25
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG12	4	0.25
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG13	4	0.25
(1,2397)	1:118:A:VAL:HG21	1:113:A:MET:HG2	2	0.25
(1,2397)	1:118:A:VAL:HG22	1:113:A:MET:HG2	2	0.25
(1,2397)	1:118:A:VAL:HG23	1:113:A:MET:HG2	2	0.25
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	4	0.25
(1,1937)	1:40:A:LEU:HD21	1:44:A:GLU:HB3	8	0.25
(1,1937)	1:40:A:LEU:HD22	1:44:A:GLU:HB3	8	0.25
(1,1937)	1:40:A:LEU:HD23	1:44:A:GLU:HB3	8	0.25
(1,1892)	1:28:A:LEU:HB2	1:33:A:TYR:HE1	3	0.25
(1,1892)	1:28:A:LEU:HB2	1:33:A:TYR:HE2	3	0.25
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	6	0.25
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	6	0.25
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	6	0.25
(1,846)	1:74:A:VAL:HG11	1:53:A:TYR:HE1	5	0.25
(1,846)	1:74:A:VAL:HG11	1:53:A:TYR:HE2	5	0.25
(1,846)	1:74:A:VAL:HG12	1:53:A:TYR:HE1	5	0.25
(1,846)	1:74:A:VAL:HG12	1:53:A:TYR:HE2	5	0.25
(1,846)	1:74:A:VAL:HG13	1:53:A:TYR:HE1	5	0.25
(1,846)	1:74:A:VAL:HG13	1:53:A:TYR:HE2	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,373)	1:28:A:LEU:HD11	1:28:A:LEU:HB3	2	0.25
(1,373)	1:28:A:LEU:HD12	1:28:A:LEU:HB3	2	0.25
(1,373)	1:28:A:LEU:HD13	1:28:A:LEU:HB3	2	0.25
(1,373)	1:28:A:LEU:HD11	1:28:A:LEU:HB3	9	0.25
(1,373)	1:28:A:LEU:HD12	1:28:A:LEU:HB3	9	0.25
(1,373)	1:28:A:LEU:HD13	1:28:A:LEU:HB3	9	0.25
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	5	0.25
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	5	0.25
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	5	0.25
(1,4641)	1:135:A:ASN:H	1:134:A:ASP:HB2	4	0.24
(1,4641)	1:135:A:ASN:H	1:134:A:ASP:HB2	8	0.24
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	3	0.24
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	3	0.24
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	3	0.24
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	5	0.24
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	6	0.24
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	10	0.24
(1,2861)	1:130:A:ILE:H	1:129:A:PHE:HB2	10	0.24
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	10	0.24
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	10	0.24
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	10	0.24
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG11	9	0.24
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG12	9	0.24
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG13	9	0.24
(1,2188)	1:70:A:LYS:HA	1:70:A:LYS:HG3	9	0.24
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	5	0.24
(1,2105)	1:52:A:SER:HB3	1:8:A:PRO:HB2	1	0.24
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD11	5	0.24
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD12	5	0.24
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD13	5	0.24
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD11	5	0.24
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD12	5	0.24
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD13	5	0.24
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD11	5	0.24
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD12	5	0.24
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD13	5	0.24
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	9	0.24
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	9	0.24
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	9	0.24
(1,1114)	1:110:A:LEU:HB3	1:110:A:LEU:HG	7	0.24
(1,1114)	1:110:A:LEU:HB3	1:110:A:LEU:HG	9	0.24
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD11	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD12	7	0.24
(1,1091)	1:95:A:LEU:HB3	1:95:A:LEU:HD13	7	0.24
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	7	0.24
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	7	0.24
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	7	0.24
(1,814)	1:49:A:VAL:HG21	1:78:A:PRO:HD2	6	0.24
(1,814)	1:49:A:VAL:HG22	1:78:A:PRO:HD2	6	0.24
(1,814)	1:49:A:VAL:HG23	1:78:A:PRO:HD2	6	0.24
(1,735)	1:19:A:TYR:HB3	1:154:A:LEU:HB3	5	0.24
(1,735)	1:19:A:TYR:HB3	1:154:A:LEU:HB3	8	0.24
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	4	0.24
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	4	0.24
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	4	0.24
(1,379)	1:28:A:LEU:HD21	1:26:A:PHE:HB2	5	0.24
(1,379)	1:28:A:LEU:HD22	1:26:A:PHE:HB2	5	0.24
(1,379)	1:28:A:LEU:HD23	1:26:A:PHE:HB2	5	0.24
(1,358)	1:132:A:VAL:HG11	1:155:A:PHE:HE1	9	0.24
(1,358)	1:132:A:VAL:HG11	1:155:A:PHE:HE2	9	0.24
(1,358)	1:132:A:VAL:HG12	1:155:A:PHE:HE1	9	0.24
(1,358)	1:132:A:VAL:HG12	1:155:A:PHE:HE2	9	0.24
(1,358)	1:132:A:VAL:HG13	1:155:A:PHE:HE1	9	0.24
(1,358)	1:132:A:VAL:HG13	1:155:A:PHE:HE2	9	0.24
(1,17)	1:74:A:VAL:HG21	1:76:A:LEU:HG	1	0.24
(1,17)	1:74:A:VAL:HG22	1:76:A:LEU:HG	1	0.24
(1,17)	1:74:A:VAL:HG23	1:76:A:LEU:HG	1	0.24
(1,4655)	1:128:A:VAL:H	1:121:A:GLU:HB3	9	0.23
(1,4590)	1:47:A:ASP:H	1:46:A:LYS:HB3	8	0.23
(1,4309)	1:37:A:VAL:H	1:135:A:ASN:HB2	3	0.23
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	2	0.23
(1,3384)	1:40:A:LEU:H	1:23:A:SER:HB3	4	0.23
(1,3365)	1:39:A:ASP:H	1:39:A:ASP:HB3	8	0.23
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	6	0.23
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	6	0.23
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	6	0.23
(1,3136)	1:86:A:ALA:H	1:105:A:GLN:HB2	10	0.23
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	1	0.23
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG11	7	0.23
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG12	7	0.23
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG13	7	0.23
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	7	0.23
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	7	0.23
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	8	0.23
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	8	0.23
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	8	0.23
(1,1842)	1:9:A:ILE:HD11	1:55:A:GLU:HB3	3	0.23
(1,1842)	1:9:A:ILE:HD12	1:55:A:GLU:HB3	3	0.23
(1,1842)	1:9:A:ILE:HD13	1:55:A:GLU:HB3	3	0.23
(1,1842)	1:9:A:ILE:HD11	1:55:A:GLU:HB3	9	0.23
(1,1842)	1:9:A:ILE:HD12	1:55:A:GLU:HB3	9	0.23
(1,1842)	1:9:A:ILE:HD13	1:55:A:GLU:HB3	9	0.23
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	5	0.23
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	5	0.23
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	5	0.23
(1,479)	1:17:A:SER:HB3	1:156:A:LYS:HB2	7	0.23
(1,274)	1:153:A:ILE:HD11	1:129:A:PHE:HB3	9	0.23
(1,274)	1:153:A:ILE:HD12	1:129:A:PHE:HB3	9	0.23
(1,274)	1:153:A:ILE:HD13	1:129:A:PHE:HB3	9	0.23
(1,260)	1:9:A:ILE:HD11	1:55:A:GLU:HB2	2	0.23
(1,260)	1:9:A:ILE:HD12	1:55:A:GLU:HB2	2	0.23
(1,260)	1:9:A:ILE:HD13	1:55:A:GLU:HB2	2	0.23
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	10	0.22
(1,4226)	1:53:A:TYR:H	1:9:A:ILE:HG13	5	0.22
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	4	0.22
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	4	0.22
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	4	0.22
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	7	0.22
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	9	0.22
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	1	0.22
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	1	0.22
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	1	0.22
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	7	0.22
(1,2613)	1:73:A:MET:HB2	1:54:A:TYR:HB2	5	0.22
(1,2613)	1:73:A:MET:HB3	1:54:A:TYR:HB2	5	0.22
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	5	0.22
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	5	0.22
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	5	0.22
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	5	0.22
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	5	0.22
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	5	0.22
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	5	0.22
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	5	0.22
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	5	0.22
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG11	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG12	6	0.22
(1,2412)	1:123:A:LYS:HB2	1:109:A:VAL:HG13	6	0.22
(1,2363)	1:107:A:PHE:HB2	1:123:A:LYS:HD3	3	0.22
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD21	9	0.22
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD22	9	0.22
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD23	9	0.22
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD21	9	0.22
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD22	9	0.22
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD23	9	0.22
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD21	9	0.22
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD22	9	0.22
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD23	9	0.22
(1,2148)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	1	0.22
(1,2148)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	7	0.22
(1,2148)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	8	0.22
(1,2148)	1:62:A:GLU:HB2	1:62:A:GLU:HG2	10	0.22
(1,1975)	1:139:A:LEU:HD21	1:108:A:PHE:HZ	7	0.22
(1,1975)	1:139:A:LEU:HD22	1:108:A:PHE:HZ	7	0.22
(1,1975)	1:139:A:LEU:HD23	1:108:A:PHE:HZ	7	0.22
(1,1842)	1:9:A:ILE:HD11	1:55:A:GLU:HB3	8	0.22
(1,1842)	1:9:A:ILE:HD12	1:55:A:GLU:HB3	8	0.22
(1,1842)	1:9:A:ILE:HD13	1:55:A:GLU:HB3	8	0.22
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB2	7	0.22
(1,827)	1:49:A:VAL:HG11	1:47:A:ASP:HB3	7	0.22
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB2	7	0.22
(1,827)	1:49:A:VAL:HG12	1:47:A:ASP:HB3	7	0.22
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB2	7	0.22
(1,827)	1:49:A:VAL:HG13	1:47:A:ASP:HB3	7	0.22
(1,825)	1:49:A:VAL:HG11	1:15:A:SER:HA	3	0.22
(1,825)	1:49:A:VAL:HG12	1:15:A:SER:HA	3	0.22
(1,825)	1:49:A:VAL:HG13	1:15:A:SER:HA	3	0.22
(1,4645)	1:153:A:ILE:H	1:154:A:LEU:HB3	7	0.21
(1,4590)	1:47:A:ASP:H	1:46:A:LYS:HB3	4	0.21
(1,4010)	1:131:A:GLY:H	1:140:A:ILE:HG12	5	0.21
(1,3618)	1:125:A:ASP:H	1:125:A:ASP:HB3	5	0.21
(1,3329)	1:24:A:ILE:H	1:23:A:SER:HB2	9	0.21
(1,2598)	1:30:A:ASP:HB3	1:31:A:GLU:HG3	9	0.21
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG21	4	0.21
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG22	4	0.21
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG23	4	0.21
(1,2433)	1:129:A:PHE:HB3	1:140:A:ILE:HB	6	0.21
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD11	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD12	2	0.21
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD13	2	0.21
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD11	2	0.21
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD12	2	0.21
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD13	2	0.21
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD11	2	0.21
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD12	2	0.21
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD13	2	0.21
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	1	0.21
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	1	0.21
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	1	0.21
(1,1395)	1:71:A:MET:HE1	1:58:A:HIS:HB3	9	0.21
(1,1395)	1:71:A:MET:HE2	1:58:A:HIS:HB3	9	0.21
(1,1395)	1:71:A:MET:HE3	1:58:A:HIS:HB3	9	0.21
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	9	0.21
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	9	0.21
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	9	0.21
(1,379)	1:28:A:LEU:HD21	1:26:A:PHE:HB2	2	0.21
(1,379)	1:28:A:LEU:HD22	1:26:A:PHE:HB2	2	0.21
(1,379)	1:28:A:LEU:HD23	1:26:A:PHE:HB2	2	0.21
(1,4645)	1:153:A:ILE:H	1:154:A:LEU:HB3	3	0.2
(1,3994)	1:152:A:ASN:H	1:152:A:ASN:HB2	1	0.2
(1,3678)	1:100:A:LYS:H	1:99:A:GLU:HB2	4	0.2
(1,3161)	1:14:A:ALA:H	1:48:A:LYS:HG2	1	0.2
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	2	0.2
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG11	9	0.2
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG12	9	0.2
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG13	9	0.2
(1,2105)	1:52:A:SER:HB3	1:8:A:PRO:HB2	3	0.2
(1,2072)	1:86:A:ALA:HB1	1:105:A:GLN:HG3	7	0.2
(1,2072)	1:86:A:ALA:HB2	1:105:A:GLN:HG3	7	0.2
(1,2072)	1:86:A:ALA:HB3	1:105:A:GLN:HG3	7	0.2
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG21	10	0.2
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG22	10	0.2
(1,1928)	1:38:A:GLU:HA	1:37:A:VAL:HG23	10	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	1	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	2	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	3	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	4	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	5	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	6	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	8	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	9	0.2
(1,1905)	1:31:A:GLU:HB3	1:31:A:GLU:HG3	10	0.2
(1,1752)	1:73:A:MET:HE1	1:56:A:SER:HB3	6	0.2
(1,1752)	1:73:A:MET:HE2	1:56:A:SER:HB3	6	0.2
(1,1752)	1:73:A:MET:HE3	1:56:A:SER:HB3	6	0.2
(1,1491)	1:94:A:GLU:HG3	1:94:A:GLU:HB3	4	0.2
(1,1491)	1:94:A:GLU:HG3	1:94:A:GLU:HB3	6	0.2
(1,1491)	1:94:A:GLU:HG3	1:94:A:GLU:HB3	8	0.2
(1,1491)	1:94:A:GLU:HG3	1:94:A:GLU:HB3	9	0.2
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG11	4	0.2
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG12	4	0.2
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG13	4	0.2
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	3	0.2
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	3	0.2
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	3	0.2
(1,1278)	1:147:A:ASN:HB2	1:150:A:THR:HG21	3	0.2
(1,1278)	1:147:A:ASN:HB2	1:150:A:THR:HG22	3	0.2
(1,1278)	1:147:A:ASN:HB2	1:150:A:THR:HG23	3	0.2
(1,814)	1:49:A:VAL:HG21	1:78:A:PRO:HD2	5	0.2
(1,814)	1:49:A:VAL:HG22	1:78:A:PRO:HD2	5	0.2
(1,814)	1:49:A:VAL:HG23	1:78:A:PRO:HD2	5	0.2
(1,354)	1:37:A:VAL:HG11	1:135:A:ASN:HA	2	0.2
(1,354)	1:37:A:VAL:HG12	1:135:A:ASN:HA	2	0.2
(1,354)	1:37:A:VAL:HG13	1:135:A:ASN:HA	2	0.2
(1,13)	1:51:A:LEU:HD21	1:120:A:PHE:HE1	8	0.2
(1,13)	1:51:A:LEU:HD21	1:120:A:PHE:HE2	8	0.2
(1,13)	1:51:A:LEU:HD22	1:120:A:PHE:HE1	8	0.2
(1,13)	1:51:A:LEU:HD22	1:120:A:PHE:HE2	8	0.2
(1,13)	1:51:A:LEU:HD23	1:120:A:PHE:HE1	8	0.2
(1,13)	1:51:A:LEU:HD23	1:120:A:PHE:HE2	8	0.2
(1,4309)	1:37:A:VAL:H	1:135:A:ASN:HB2	7	0.19
(1,4132)	1:79:A:THR:H	1:78:A:PRO:HD3	1	0.19
(1,4010)	1:131:A:GLY:H	1:140:A:ILE:HG12	8	0.19
(1,3961)	1:119:A:SER:H	1:155:A:PHE:HB3	4	0.19
(1,3649)	1:44:A:GLU:H	1:44:A:GLU:HG2	4	0.19
(1,3561)	1:55:A:GLU:H	1:54:A:TYR:HB2	10	0.19
(1,3414)	1:45:A:LYS:H	1:45:A:LYS:HG2	1	0.19
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	2	0.19
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	2	0.19
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	2	0.19
(1,2629)	1:37:A:VAL:HG11	1:24:A:ILE:HG13	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2629)	1:37:A:VAL:HG12	1:24:A:ILE:HG13	6	0.19
(1,2629)	1:37:A:VAL:HG13	1:24:A:ILE:HG13	6	0.19
(1,2626)	1:33:A:TYR:HB2	1:28:A:LEU:HD21	3	0.19
(1,2626)	1:33:A:TYR:HB2	1:28:A:LEU:HD22	3	0.19
(1,2626)	1:33:A:TYR:HB2	1:28:A:LEU:HD23	3	0.19
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG11	3	0.19
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG12	3	0.19
(1,2413)	1:123:A:LYS:HD2	1:109:A:VAL:HG13	3	0.19
(1,2326)	1:28:A:LEU:HD11	1:35:A:ILE:HG13	7	0.19
(1,2326)	1:28:A:LEU:HD12	1:35:A:ILE:HG13	7	0.19
(1,2326)	1:28:A:LEU:HD13	1:35:A:ILE:HG13	7	0.19
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	1	0.19
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	2	0.19
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	3	0.19
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	5	0.19
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	6	0.19
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	7	0.19
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	8	0.19
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	10	0.19
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG21	1	0.19
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG22	1	0.19
(1,2009)	1:104:A:ASP:HB3	1:124:A:THR:HG23	1	0.19
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	2	0.19
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	2	0.19
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	2	0.19
(1,977)	1:16:A:LEU:HD11	1:76:A:LEU:HD21	6	0.19
(1,977)	1:16:A:LEU:HD11	1:76:A:LEU:HD22	6	0.19
(1,977)	1:16:A:LEU:HD11	1:76:A:LEU:HD23	6	0.19
(1,977)	1:16:A:LEU:HD12	1:76:A:LEU:HD21	6	0.19
(1,977)	1:16:A:LEU:HD12	1:76:A:LEU:HD22	6	0.19
(1,977)	1:16:A:LEU:HD12	1:76:A:LEU:HD23	6	0.19
(1,977)	1:16:A:LEU:HD13	1:76:A:LEU:HD21	6	0.19
(1,977)	1:16:A:LEU:HD13	1:76:A:LEU:HD22	6	0.19
(1,977)	1:16:A:LEU:HD13	1:76:A:LEU:HD23	6	0.19
(1,814)	1:49:A:VAL:HG21	1:78:A:PRO:HD2	3	0.19
(1,814)	1:49:A:VAL:HG22	1:78:A:PRO:HD2	3	0.19
(1,814)	1:49:A:VAL:HG23	1:78:A:PRO:HD2	3	0.19
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	5	0.19
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	5	0.19
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	5	0.19
(1,479)	1:17:A:SER:HB3	1:156:A:LYS:HB2	6	0.19
(1,295)	1:118:A:VAL:HG11	1:155:A:PHE:HB2	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,295)	1:118:A:VAL:HG12	1:155:A:PHE:HB2	4	0.19
(1,295)	1:118:A:VAL:HG13	1:155:A:PHE:HB2	4	0.19
(1,4645)	1:153:A:ILE:H	1:154:A:LEU:HB3	9	0.18
(1,4620)	1:56:A:SER:H	1:55:A:GLU:HB3	3	0.18
(1,4590)	1:47:A:ASP:H	1:46:A:LYS:HB3	6	0.18
(1,4589)	1:47:A:ASP:H	1:46:A:LYS:HB2	10	0.18
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	4	0.18
(1,4371)	1:67:A:VAL:H	1:67:A:VAL:HG21	9	0.18
(1,4371)	1:67:A:VAL:H	1:67:A:VAL:HG22	9	0.18
(1,4371)	1:67:A:VAL:H	1:67:A:VAL:HG23	9	0.18
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	2	0.18
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG21	5	0.18
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG22	5	0.18
(1,4118)	1:18:A:THR:H	1:37:A:VAL:HG23	5	0.18
(1,3785)	1:93:A:VAL:H	1:92:A:SER:HB2	2	0.18
(1,3718)	1:6:A:ILE:H	1:5:A:GLY:HA3	5	0.18
(1,3414)	1:45:A:LYS:H	1:45:A:LYS:HG2	6	0.18
(1,3384)	1:40:A:LEU:H	1:23:A:SER:HB3	6	0.18
(1,2839)	1:77:A:SER:H	1:50:A:LEU:HB2	4	0.18
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	8	0.18
(1,2634)	1:73:A:MET:HG2	1:56:A:SER:HB3	8	0.18
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	7	0.18
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG21	5	0.18
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG22	5	0.18
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG23	5	0.18
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG21	5	0.18
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG22	5	0.18
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG23	5	0.18
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG21	5	0.18
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG22	5	0.18
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG23	5	0.18
(1,1909)	1:33:A:TYR:HB3	1:95:A:LEU:HD11	10	0.18
(1,1909)	1:33:A:TYR:HB3	1:95:A:LEU:HD12	10	0.18
(1,1909)	1:33:A:TYR:HB3	1:95:A:LEU:HD13	10	0.18
(1,1842)	1:9:A:ILE:HD11	1:55:A:GLU:HB3	1	0.18
(1,1842)	1:9:A:ILE:HD12	1:55:A:GLU:HB3	1	0.18
(1,1842)	1:9:A:ILE:HD13	1:55:A:GLU:HB3	1	0.18
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD11	10	0.18
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD12	10	0.18
(1,1631)	1:78:A:PRO:HB3	1:28:A:LEU:HD13	10	0.18
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG11	7	0.18
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG12	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1411)	1:73:A:MET:HG3	1:109:A:VAL:HG13	7	0.18
(1,735)	1:19:A:TYR:HB3	1:154:A:LEU:HB3	10	0.18
(1,240)	1:140:A:ILE:HD11	1:131:A:GLY:HA2	3	0.18
(1,240)	1:140:A:ILE:HD12	1:131:A:GLY:HA2	3	0.18
(1,240)	1:140:A:ILE:HD13	1:131:A:GLY:HA2	3	0.18
(1,4645)	1:153:A:ILE:H	1:154:A:LEU:HB3	6	0.17
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	8	0.17
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG21	7	0.17
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG22	7	0.17
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG23	7	0.17
(1,3961)	1:119:A:SER:H	1:155:A:PHE:HB3	7	0.17
(1,3948)	1:90:A:GLU:H	1:89:A:LYS:HB3	2	0.17
(1,3718)	1:6:A:ILE:H	1:5:A:GLY:HA3	4	0.17
(1,3718)	1:6:A:ILE:H	1:5:A:GLY:HA3	8	0.17
(1,3561)	1:55:A:GLU:H	1:54:A:TYR:HB2	1	0.17
(1,3559)	1:55:A:GLU:H	1:55:A:GLU:HG3	8	0.17
(1,3365)	1:39:A:ASP:H	1:39:A:ASP:HB3	1	0.17
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	9	0.17
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	9	0.17
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	9	0.17
(1,2852)	1:130:A:ILE:H	1:130:A:ILE:HG12	6	0.17
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	1	0.17
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	1	0.17
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	1	0.17
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	1	0.17
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	1	0.17
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	1	0.17
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	1	0.17
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	1	0.17
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	1	0.17
(1,2488)	1:153:A:ILE:HG21	1:140:A:ILE:HG12	2	0.17
(1,2488)	1:153:A:ILE:HG22	1:140:A:ILE:HG12	2	0.17
(1,2488)	1:153:A:ILE:HG23	1:140:A:ILE:HG12	2	0.17
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG21	5	0.17
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG22	5	0.17
(1,2398)	1:112:A:ASN:HB2	1:118:A:VAL:HG23	5	0.17
(1,1937)	1:40:A:LEU:HD21	1:44:A:GLU:HB3	7	0.17
(1,1937)	1:40:A:LEU:HD22	1:44:A:GLU:HB3	7	0.17
(1,1937)	1:40:A:LEU:HD23	1:44:A:GLU:HB3	7	0.17
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD11	7	0.17
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD12	7	0.17
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD13	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD11	7	0.17
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD12	7	0.17
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD13	7	0.17
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB1	5	0.17
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB2	5	0.17
(1,1689)	1:105:A:GLN:HB2	1:86:A:ALA:HB3	5	0.17
(1,814)	1:49:A:VAL:HG21	1:78:A:PRO:HD2	1	0.17
(1,814)	1:49:A:VAL:HG22	1:78:A:PRO:HD2	1	0.17
(1,814)	1:49:A:VAL:HG23	1:78:A:PRO:HD2	1	0.17
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG11	2	0.17
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG12	2	0.17
(1,296)	1:120:A:PHE:HE1	1:118:A:VAL:HG13	2	0.17
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG11	2	0.17
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG12	2	0.17
(1,296)	1:120:A:PHE:HE2	1:118:A:VAL:HG13	2	0.17
(1,4645)	1:153:A:ILE:H	1:154:A:LEU:HB3	4	0.16
(1,4620)	1:56:A:SER:H	1:55:A:GLU:HB3	2	0.16
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	1	0.16
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	2	0.16
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	3	0.16
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	5	0.16
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	6	0.16
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	7	0.16
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	10	0.16
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	9	0.16
(1,4225)	1:53:A:TYR:H	1:8:A:PRO:HB3	8	0.16
(1,3432)	1:13:A:LEU:H	1:13:A:LEU:HG	8	0.16
(1,3136)	1:86:A:ALA:H	1:105:A:GLN:HB2	1	0.16
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG11	10	0.16
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG12	10	0.16
(1,3090)	1:123:A:LYS:H	1:109:A:VAL:HG13	10	0.16
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	6	0.16
(1,2598)	1:30:A:ASP:HB3	1:31:A:GLU:HG3	6	0.16
(1,2192)	1:70:A:LYS:HA	1:70:A:LYS:HB2	4	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	1	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	1	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	1	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	4	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	4	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	4	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	7	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	7	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	8	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	8	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	8	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	10	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	10	0.16
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	10	0.16
(1,983)	1:28:A:LEU:HA	1:28:A:LEU:HG	3	0.16
(1,894)	1:140:A:ILE:HD11	1:131:A:GLY:HA3	8	0.16
(1,894)	1:140:A:ILE:HD12	1:131:A:GLY:HA3	8	0.16
(1,894)	1:140:A:ILE:HD13	1:131:A:GLY:HA3	8	0.16
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	6	0.16
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	6	0.16
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	6	0.16
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	6	0.16
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	6	0.16
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	6	0.16
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	6	0.16
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	6	0.16
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	6	0.16
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG11	3	0.16
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG12	3	0.16
(1,849)	1:53:A:TYR:HA	1:74:A:VAL:HG13	3	0.16
(1,814)	1:49:A:VAL:HG21	1:78:A:PRO:HD2	7	0.16
(1,814)	1:49:A:VAL:HG22	1:78:A:PRO:HD2	7	0.16
(1,814)	1:49:A:VAL:HG23	1:78:A:PRO:HD2	7	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	2	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	2	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	2	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	4	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	4	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	4	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	5	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	5	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	5	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG21	7	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG22	7	0.16
(1,607)	1:9:A:ILE:HG12	1:9:A:ILE:HG23	7	0.16
(1,274)	1:153:A:ILE:HD11	1:129:A:PHE:HB3	7	0.16
(1,274)	1:153:A:ILE:HD12	1:129:A:PHE:HB3	7	0.16
(1,274)	1:153:A:ILE:HD13	1:129:A:PHE:HB3	7	0.16
(1,238)	1:6:A:ILE:HD11	1:54:A:TYR:HB2	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:6:A:ILE:HD12	1:54:A:TYR:HB2	2	0.16
(1,238)	1:6:A:ILE:HD13	1:54:A:TYR:HB2	2	0.16
(1,4645)	1:153:A:ILE:H	1:154:A:LEU:HB3	5	0.15
(1,4589)	1:47:A:ASP:H	1:46:A:LYS:HB2	3	0.15
(1,4379)	1:71:A:MET:H	1:71:A:MET:HB2	9	0.15
(1,4329)	1:42:A:LYS:H	1:41:A:LYS:HG2	8	0.15
(1,4329)	1:42:A:LYS:H	1:41:A:LYS:HG3	8	0.15
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	7	0.15
(1,4010)	1:131:A:GLY:H	1:140:A:ILE:HG12	2	0.15
(1,3641)	1:89:A:LYS:H	1:89:A:LYS:HB3	10	0.15
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG21	5	0.15
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG22	5	0.15
(1,3154)	1:50:A:LEU:H	1:49:A:VAL:HG23	5	0.15
(1,2799)	1:49:A:VAL:H	1:48:A:LYS:HG2	7	0.15
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD11	7	0.15
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD12	7	0.15
(1,2794)	1:156:A:LYS:H	1:16:A:LEU:HD13	7	0.15
(1,2634)	1:73:A:MET:HG2	1:56:A:SER:HB3	1	0.15
(1,2628)	1:37:A:VAL:HG11	1:24:A:ILE:HG12	3	0.15
(1,2628)	1:37:A:VAL:HG12	1:24:A:ILE:HG12	3	0.15
(1,2628)	1:37:A:VAL:HG13	1:24:A:ILE:HG12	3	0.15
(1,2463)	1:138:A:ALA:HB1	1:133:A:LYS:HG2	6	0.15
(1,2463)	1:138:A:ALA:HB2	1:133:A:LYS:HG2	6	0.15
(1,2463)	1:138:A:ALA:HB3	1:133:A:LYS:HG2	6	0.15
(1,1842)	1:9:A:ILE:HD11	1:55:A:GLU:HB3	10	0.15
(1,1842)	1:9:A:ILE:HD12	1:55:A:GLU:HB3	10	0.15
(1,1842)	1:9:A:ILE:HD13	1:55:A:GLU:HB3	10	0.15
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG11	1	0.15
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG12	1	0.15
(1,1385)	1:71:A:MET:HG2	1:109:A:VAL:HG13	1	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	2	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	2	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	2	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	3	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	3	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	3	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	5	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	5	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	5	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	6	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	6	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD21	9	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD22	9	0.15
(1,994)	1:40:A:LEU:HB2	1:40:A:LEU:HD23	9	0.15
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG21	7	0.15
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG22	7	0.15
(1,890)	1:142:A:VAL:HG11	1:150:A:THR:HG23	7	0.15
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG21	7	0.15
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG22	7	0.15
(1,890)	1:142:A:VAL:HG12	1:150:A:THR:HG23	7	0.15
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG21	7	0.15
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG22	7	0.15
(1,890)	1:142:A:VAL:HG13	1:150:A:THR:HG23	7	0.15
(1,238)	1:6:A:ILE:HD11	1:54:A:TYR:HB2	9	0.15
(1,238)	1:6:A:ILE:HD12	1:54:A:TYR:HB2	9	0.15
(1,238)	1:6:A:ILE:HD13	1:54:A:TYR:HB2	9	0.15
(1,4645)	1:153:A:ILE:H	1:154:A:LEU:HB3	2	0.14
(1,4590)	1:47:A:ASP:H	1:46:A:LYS:HB3	5	0.14
(1,4590)	1:47:A:ASP:H	1:46:A:LYS:HB3	7	0.14
(1,4589)	1:47:A:ASP:H	1:46:A:LYS:HB2	5	0.14
(1,4324)	1:41:A:LYS:H	1:41:A:LYS:HB3	6	0.14
(1,3641)	1:89:A:LYS:H	1:89:A:LYS:HB3	2	0.14
(1,3641)	1:89:A:LYS:H	1:89:A:LYS:HB3	6	0.14
(1,3430)	1:13:A:LEU:H	1:12:A:TYR:HB3	1	0.14
(1,3306)	1:154:A:LEU:H	1:154:A:LEU:HB3	7	0.14
(1,2861)	1:130:A:ILE:H	1:129:A:PHE:HB2	6	0.14
(1,2775)	1:155:A:PHE:H	1:155:A:PHE:HB3	6	0.14
(1,2775)	1:155:A:PHE:H	1:155:A:PHE:HB3	7	0.14
(1,2630)	1:37:A:VAL:HG11	1:22:A:GLN:HB3	8	0.14
(1,2630)	1:37:A:VAL:HG12	1:22:A:GLN:HB3	8	0.14
(1,2630)	1:37:A:VAL:HG13	1:22:A:GLN:HB3	8	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	2	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	2	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	2	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	2	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	2	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	2	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	2	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	2	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	2	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	8	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	8	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	8	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	8	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	8	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	8	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	8	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	8	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	9	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	9	0.14
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	9	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	9	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	9	0.14
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	9	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	9	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	9	0.14
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	9	0.14
(1,1217)	1:154:A:LEU:HB2	1:117:A:CYS:HB3	9	0.14
(1,1038)	1:51:A:LEU:HD11	1:76:A:LEU:HD11	6	0.14
(1,1038)	1:51:A:LEU:HD11	1:76:A:LEU:HD12	6	0.14
(1,1038)	1:51:A:LEU:HD11	1:76:A:LEU:HD13	6	0.14
(1,1038)	1:51:A:LEU:HD12	1:76:A:LEU:HD11	6	0.14
(1,1038)	1:51:A:LEU:HD12	1:76:A:LEU:HD12	6	0.14
(1,1038)	1:51:A:LEU:HD12	1:76:A:LEU:HD13	6	0.14
(1,1038)	1:51:A:LEU:HD13	1:76:A:LEU:HD11	6	0.14
(1,1038)	1:51:A:LEU:HD13	1:76:A:LEU:HD12	6	0.14
(1,1038)	1:51:A:LEU:HD13	1:76:A:LEU:HD13	6	0.14
(1,894)	1:140:A:ILE:HD11	1:131:A:GLY:HA3	6	0.14
(1,894)	1:140:A:ILE:HD12	1:131:A:GLY:HA3	6	0.14
(1,894)	1:140:A:ILE:HD13	1:131:A:GLY:HA3	6	0.14
(1,825)	1:49:A:VAL:HG11	1:15:A:SER:HA	4	0.14
(1,825)	1:49:A:VAL:HG12	1:15:A:SER:HA	4	0.14
(1,825)	1:49:A:VAL:HG13	1:15:A:SER:HA	4	0.14
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	10	0.14
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	10	0.14
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	10	0.14
(1,295)	1:118:A:VAL:HG11	1:155:A:PHE:HB2	10	0.14
(1,295)	1:118:A:VAL:HG12	1:155:A:PHE:HB2	10	0.14
(1,295)	1:118:A:VAL:HG13	1:155:A:PHE:HB2	10	0.14
(1,4374)	1:70:A:LYS:H	1:70:A:LYS:HG2	9	0.13
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG21	9	0.13
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG22	9	0.13
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG23	9	0.13
(1,3745)	1:56:A:SER:H	1:55:A:GLU:HG3	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3718)	1:6:A:ILE:H	1:5:A:GLY:HA3	7	0.13
(1,3641)	1:89:A:LYS:H	1:89:A:LYS:HB3	4	0.13
(1,3641)	1:89:A:LYS:H	1:89:A:LYS:HB3	5	0.13
(1,3641)	1:89:A:LYS:H	1:89:A:LYS:HB3	8	0.13
(1,2788)	1:156:A:LYS:H	1:155:A:PHE:HB2	8	0.13
(1,2598)	1:30:A:ASP:HB3	1:31:A:GLU:HG3	10	0.13
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG21	9	0.13
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG22	9	0.13
(1,2565)	1:22:A:GLN:HG2	1:37:A:VAL:HG23	9	0.13
(1,2485)	1:140:A:ILE:HD11	1:129:A:PHE:HB3	7	0.13
(1,2485)	1:140:A:ILE:HD12	1:129:A:PHE:HB3	7	0.13
(1,2485)	1:140:A:ILE:HD13	1:129:A:PHE:HB3	7	0.13
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG21	6	0.13
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG22	6	0.13
(1,2142)	1:147:A:ASN:HA	1:142:A:VAL:HG23	6	0.13
(1,2141)	1:58:A:HIS:HB2	1:59:A:PRO:HD3	9	0.13
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD11	3	0.13
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD12	3	0.13
(1,1853)	1:11:A:GLU:HG2	1:50:A:LEU:HD13	3	0.13
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD11	3	0.13
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD12	3	0.13
(1,1853)	1:11:A:GLU:HG3	1:50:A:LEU:HD13	3	0.13
(1,894)	1:140:A:ILE:HD11	1:131:A:GLY:HA3	2	0.13
(1,894)	1:140:A:ILE:HD12	1:131:A:GLY:HA3	2	0.13
(1,894)	1:140:A:ILE:HD13	1:131:A:GLY:HA3	2	0.13
(1,674)	1:153:A:ILE:HG21	1:131:A:GLY:HA2	1	0.13
(1,674)	1:153:A:ILE:HG22	1:131:A:GLY:HA2	1	0.13
(1,674)	1:153:A:ILE:HG23	1:131:A:GLY:HA2	1	0.13
(1,479)	1:17:A:SER:HB3	1:156:A:LYS:HB2	5	0.13
(1,4226)	1:53:A:TYR:H	1:9:A:ILE:HG13	4	0.12
(1,4068)	1:10:A:THR:H	1:9:A:ILE:HG13	2	0.12
(1,3605)	1:7:A:SER:H	1:55:A:GLU:HG2	6	0.12
(1,3430)	1:13:A:LEU:H	1:12:A:TYR:HB3	2	0.12
(1,3430)	1:13:A:LEU:H	1:12:A:TYR:HB3	4	0.12
(1,3430)	1:13:A:LEU:H	1:12:A:TYR:HB3	8	0.12
(1,3430)	1:13:A:LEU:H	1:12:A:TYR:HB3	10	0.12
(1,3196)	1:38:A:GLU:H	1:38:A:GLU:HG3	6	0.12
(1,3048)	1:129:A:PHE:H	1:128:A:VAL:HG11	4	0.12
(1,3048)	1:129:A:PHE:H	1:128:A:VAL:HG12	4	0.12
(1,3048)	1:129:A:PHE:H	1:128:A:VAL:HG13	4	0.12
(1,2861)	1:130:A:ILE:H	1:129:A:PHE:HB2	5	0.12
(1,2630)	1:37:A:VAL:HG11	1:22:A:GLN:HB3	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2630)	1:37:A:VAL:HG12	1:22:A:GLN:HB3	6	0.12
(1,2630)	1:37:A:VAL:HG13	1:22:A:GLN:HB3	6	0.12
(1,2628)	1:37:A:VAL:HG11	1:24:A:ILE:HG12	10	0.12
(1,2628)	1:37:A:VAL:HG12	1:24:A:ILE:HG12	10	0.12
(1,2628)	1:37:A:VAL:HG13	1:24:A:ILE:HG12	10	0.12
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	7	0.12
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	7	0.12
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	7	0.12
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	7	0.12
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	7	0.12
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	7	0.12
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	7	0.12
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	7	0.12
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	7	0.12
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD11	8	0.12
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD12	8	0.12
(1,1966)	1:49:A:VAL:HG21	1:76:A:LEU:HD13	8	0.12
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD11	8	0.12
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD12	8	0.12
(1,1966)	1:49:A:VAL:HG22	1:76:A:LEU:HD13	8	0.12
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD11	8	0.12
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD12	8	0.12
(1,1966)	1:49:A:VAL:HG23	1:76:A:LEU:HD13	8	0.12
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG21	2	0.12
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG22	2	0.12
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG23	2	0.12
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG21	2	0.12
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG22	2	0.12
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG23	2	0.12
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG21	2	0.12
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG22	2	0.12
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG23	2	0.12
(1,1845)	1:9:A:ILE:HD11	1:55:A:GLU:HG3	6	0.12
(1,1845)	1:9:A:ILE:HD12	1:55:A:GLU:HG3	6	0.12
(1,1845)	1:9:A:ILE:HD13	1:55:A:GLU:HG3	6	0.12
(1,1523)	1:118:A:VAL:HG11	1:156:A:LYS:HA	2	0.12
(1,1523)	1:118:A:VAL:HG12	1:156:A:LYS:HA	2	0.12
(1,1523)	1:118:A:VAL:HG13	1:156:A:LYS:HA	2	0.12
(1,735)	1:19:A:TYR:HB3	1:154:A:LEU:HB3	3	0.12
(1,595)	1:9:A:ILE:HD11	1:9:A:ILE:HA	10	0.12
(1,595)	1:9:A:ILE:HD12	1:9:A:ILE:HA	10	0.12
(1,595)	1:9:A:ILE:HD13	1:9:A:ILE:HA	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,478)	1:17:A:SER:HB2	1:156:A:LYS:HB2	10	0.12
(1,331)	1:109:A:VAL:HG11	1:73:A:MET:HG2	5	0.12
(1,331)	1:109:A:VAL:HG12	1:73:A:MET:HG2	5	0.12
(1,331)	1:109:A:VAL:HG13	1:73:A:MET:HG2	5	0.12
(3,23)	1:52:A:SER:H	1:75:A:THR:O	7	0.11
(1,4584)	1:45:A:LYS:H	1:44:A:GLU:HB2	5	0.11
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG21	1	0.11
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG22	1	0.11
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG23	1	0.11
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG21	8	0.11
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG22	8	0.11
(1,4049)	1:135:A:ASN:H	1:132:A:VAL:HG23	8	0.11
(1,4010)	1:131:A:GLY:H	1:140:A:ILE:HG12	3	0.11
(1,3561)	1:55:A:GLU:H	1:54:A:TYR:HB2	3	0.11
(1,3411)	1:42:A:LYS:H	1:42:A:LYS:HB2	10	0.11
(1,3306)	1:154:A:LEU:H	1:154:A:LEU:HB3	2	0.11
(1,3306)	1:154:A:LEU:H	1:154:A:LEU:HB3	9	0.11
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG21	8	0.11
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG22	8	0.11
(1,2904)	1:23:A:SER:H	1:37:A:VAL:HG23	8	0.11
(1,2775)	1:155:A:PHE:H	1:155:A:PHE:HB3	4	0.11
(1,2605)	1:76:A:LEU:HD11	1:74:A:VAL:HB	3	0.11
(1,2605)	1:76:A:LEU:HD12	1:74:A:VAL:HB	3	0.11
(1,2605)	1:76:A:LEU:HD13	1:74:A:VAL:HB	3	0.11
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG11	4	0.11
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG12	4	0.11
(1,2574)	1:24:A:ILE:HD11	1:37:A:VAL:HG13	4	0.11
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG11	4	0.11
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG12	4	0.11
(1,2574)	1:24:A:ILE:HD12	1:37:A:VAL:HG13	4	0.11
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG11	4	0.11
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG12	4	0.11
(1,2574)	1:24:A:ILE:HD13	1:37:A:VAL:HG13	4	0.11
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD21	4	0.11
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD22	4	0.11
(1,2232)	1:51:A:LEU:HD21	1:76:A:LEU:HD23	4	0.11
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD21	4	0.11
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD22	4	0.11
(1,2232)	1:51:A:LEU:HD22	1:76:A:LEU:HD23	4	0.11
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD21	4	0.11
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD22	4	0.11
(1,2232)	1:51:A:LEU:HD23	1:76:A:LEU:HD23	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2033)	1:160:A:THR:HG21	1:15:A:SER:HB3	2	0.11
(1,2033)	1:160:A:THR:HG22	1:15:A:SER:HB3	2	0.11
(1,2033)	1:160:A:THR:HG23	1:15:A:SER:HB3	2	0.11
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG21	4	0.11
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG22	4	0.11
(1,1920)	1:37:A:VAL:HG11	1:24:A:ILE:HG23	4	0.11
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG21	4	0.11
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG22	4	0.11
(1,1920)	1:37:A:VAL:HG12	1:24:A:ILE:HG23	4	0.11
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG21	4	0.11
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG22	4	0.11
(1,1920)	1:37:A:VAL:HG13	1:24:A:ILE:HG23	4	0.11
(1,1412)	1:73:A:MET:HG3	1:109:A:VAL:HG21	1	0.11
(1,1412)	1:73:A:MET:HG3	1:109:A:VAL:HG22	1	0.11
(1,1412)	1:73:A:MET:HG3	1:109:A:VAL:HG23	1	0.11
(1,556)	1:3:A:ILE:HD11	1:3:A:ILE:HA	2	0.11
(1,556)	1:3:A:ILE:HD12	1:3:A:ILE:HA	2	0.11
(1,556)	1:3:A:ILE:HD13	1:3:A:ILE:HA	2	0.11
(1,556)	1:3:A:ILE:HD11	1:3:A:ILE:HA	8	0.11
(1,556)	1:3:A:ILE:HD12	1:3:A:ILE:HA	8	0.11
(1,556)	1:3:A:ILE:HD13	1:3:A:ILE:HA	8	0.11
(1,18)	1:140:A:ILE:HG21	1:132:A:VAL:HG11	2	0.11
(1,18)	1:140:A:ILE:HG21	1:132:A:VAL:HG12	2	0.11
(1,18)	1:140:A:ILE:HG21	1:132:A:VAL:HG13	2	0.11
(1,18)	1:140:A:ILE:HG21	1:132:A:VAL:HG21	2	0.11
(1,18)	1:140:A:ILE:HG21	1:132:A:VAL:HG22	2	0.11
(1,18)	1:140:A:ILE:HG21	1:132:A:VAL:HG23	2	0.11
(1,18)	1:140:A:ILE:HG22	1:132:A:VAL:HG11	2	0.11
(1,18)	1:140:A:ILE:HG22	1:132:A:VAL:HG12	2	0.11
(1,18)	1:140:A:ILE:HG22	1:132:A:VAL:HG13	2	0.11
(1,18)	1:140:A:ILE:HG22	1:132:A:VAL:HG21	2	0.11
(1,18)	1:140:A:ILE:HG22	1:132:A:VAL:HG22	2	0.11
(1,18)	1:140:A:ILE:HG22	1:132:A:VAL:HG23	2	0.11
(1,18)	1:140:A:ILE:HG23	1:132:A:VAL:HG11	2	0.11
(1,18)	1:140:A:ILE:HG23	1:132:A:VAL:HG12	2	0.11
(1,18)	1:140:A:ILE:HG23	1:132:A:VAL:HG13	2	0.11
(1,18)	1:140:A:ILE:HG23	1:132:A:VAL:HG21	2	0.11
(1,18)	1:140:A:ILE:HG23	1:132:A:VAL:HG22	2	0.11
(1,18)	1:140:A:ILE:HG23	1:132:A:VAL:HG23	2	0.11
(1,4589)	1:47:A:ASP:H	1:46:A:LYS:HB2	6	0.1
(1,4068)	1:10:A:THR:H	1:9:A:ILE:HG13	5	0.1
(1,3961)	1:119:A:SER:H	1:155:A:PHE:HB3	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3641)	1:89:A:LYS:H	1:89:A:LYS:HB3	9	0.1
(1,3440)	1:35:A:ILE:H	1:95:A:LEU:HD11	10	0.1
(1,3440)	1:35:A:ILE:H	1:95:A:LEU:HD12	10	0.1
(1,3440)	1:35:A:ILE:H	1:95:A:LEU:HD13	10	0.1
(1,3435)	1:13:A:LEU:H	1:13:A:LEU:HD21	8	0.1
(1,3435)	1:13:A:LEU:H	1:13:A:LEU:HD22	8	0.1
(1,3435)	1:13:A:LEU:H	1:13:A:LEU:HD23	8	0.1
(1,2861)	1:130:A:ILE:H	1:129:A:PHE:HB2	8	0.1
(1,2852)	1:130:A:ILE:H	1:130:A:ILE:HG12	4	0.1
(1,2605)	1:76:A:LEU:HD11	1:74:A:VAL:HB	6	0.1
(1,2605)	1:76:A:LEU:HD12	1:74:A:VAL:HB	6	0.1
(1,2605)	1:76:A:LEU:HD13	1:74:A:VAL:HB	6	0.1
(1,2463)	1:138:A:ALA:HB1	1:133:A:LYS:HG2	1	0.1
(1,2463)	1:138:A:ALA:HB2	1:133:A:LYS:HG2	1	0.1
(1,2463)	1:138:A:ALA:HB3	1:133:A:LYS:HG2	1	0.1
(1,2322)	1:95:A:LEU:HB2	1:95:A:LEU:HD21	10	0.1
(1,2322)	1:95:A:LEU:HB2	1:95:A:LEU:HD22	10	0.1
(1,2322)	1:95:A:LEU:HB2	1:95:A:LEU:HD23	10	0.1
(1,2194)	1:70:A:LYS:HB2	1:70:A:LYS:HE2	1	0.1
(1,2194)	1:70:A:LYS:HB2	1:70:A:LYS:HE3	1	0.1
(1,1779)	1:28:A:LEU:HD11	1:79:A:THR:HG21	3	0.1
(1,1779)	1:28:A:LEU:HD11	1:79:A:THR:HG22	3	0.1
(1,1779)	1:28:A:LEU:HD11	1:79:A:THR:HG23	3	0.1
(1,1779)	1:28:A:LEU:HD12	1:79:A:THR:HG21	3	0.1
(1,1779)	1:28:A:LEU:HD12	1:79:A:THR:HG22	3	0.1
(1,1779)	1:28:A:LEU:HD12	1:79:A:THR:HG23	3	0.1
(1,1779)	1:28:A:LEU:HD13	1:79:A:THR:HG21	3	0.1
(1,1779)	1:28:A:LEU:HD13	1:79:A:THR:HG22	3	0.1
(1,1779)	1:28:A:LEU:HD13	1:79:A:THR:HG23	3	0.1
(1,1762)	1:95:A:LEU:HD11	1:35:A:ILE:HG13	7	0.1
(1,1762)	1:95:A:LEU:HD12	1:35:A:ILE:HG13	7	0.1
(1,1762)	1:95:A:LEU:HD13	1:35:A:ILE:HG13	7	0.1
(1,864)	1:109:A:VAL:HG11	1:109:A:VAL:HG21	3	0.1
(1,864)	1:109:A:VAL:HG11	1:109:A:VAL:HG22	3	0.1
(1,864)	1:109:A:VAL:HG11	1:109:A:VAL:HG23	3	0.1
(1,864)	1:109:A:VAL:HG12	1:109:A:VAL:HG21	3	0.1
(1,864)	1:109:A:VAL:HG12	1:109:A:VAL:HG22	3	0.1
(1,864)	1:109:A:VAL:HG12	1:109:A:VAL:HG23	3	0.1
(1,864)	1:109:A:VAL:HG13	1:109:A:VAL:HG21	3	0.1
(1,864)	1:109:A:VAL:HG13	1:109:A:VAL:HG22	3	0.1
(1,864)	1:109:A:VAL:HG13	1:109:A:VAL:HG23	3	0.1
(1,556)	1:3:A:ILE:HD11	1:3:A:ILE:HA	5	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,556)	1:3:A:ILE:HD12	1:3:A:ILE:HA	5	0.1
(1,556)	1:3:A:ILE:HD13	1:3:A:ILE:HA	5	0.1
(1,240)	1:140:A:ILE:HD11	1:131:A:GLY:HA2	4	0.1
(1,240)	1:140:A:ILE:HD12	1:131:A:GLY:HA2	4	0.1
(1,240)	1:140:A:ILE:HD13	1:131:A:GLY:HA2	4	0.1

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

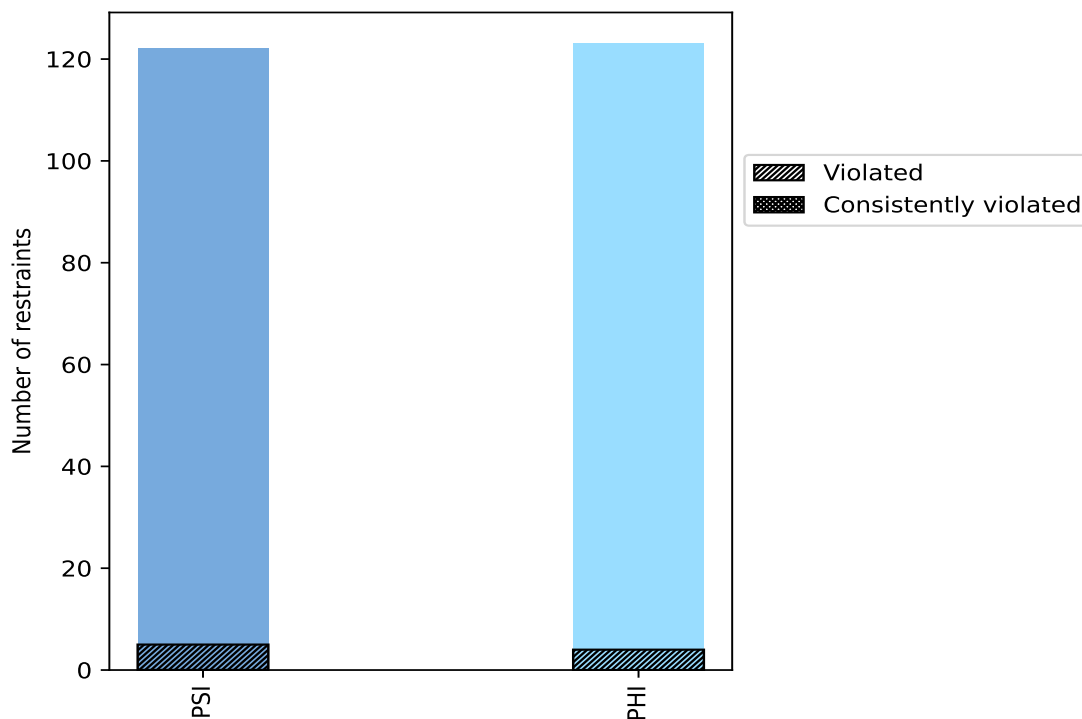
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PSI	122	49.8	5	4.1	2.0	0	0.0	0.0
PHI	123	50.2	4	3.3	1.6	0	0.0	0.0
Total	245	100.0	9	3.7	3.7	0	0.0	0.0

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

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



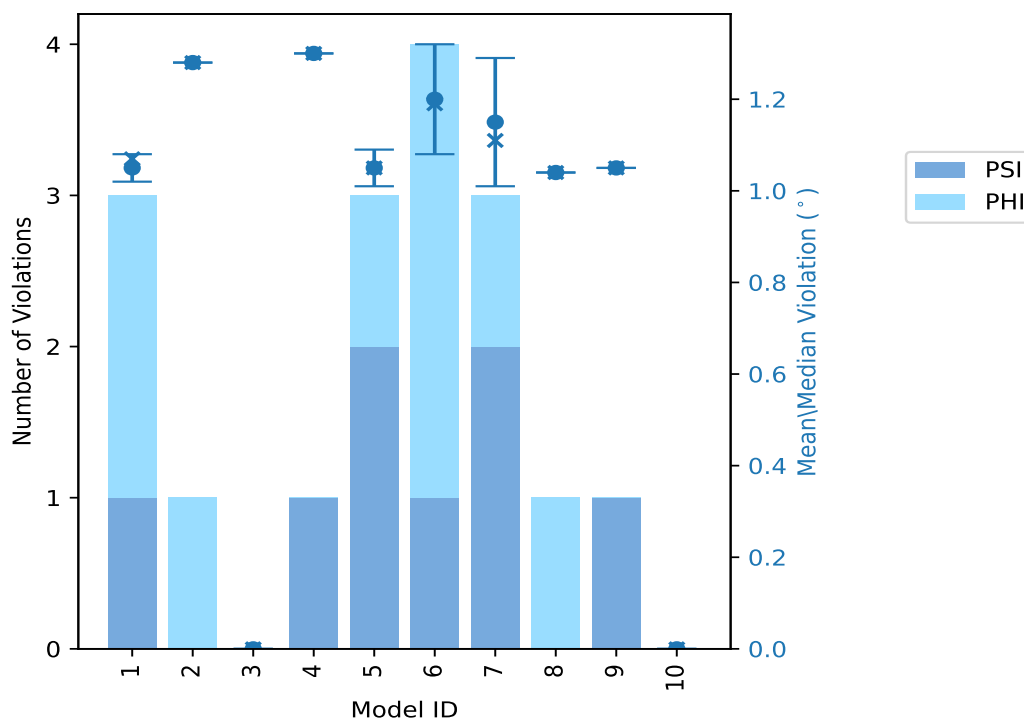
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	1	2	3	1.05	1.07	0.03	1.07
2	0	1	1	1.28	1.28	0.0	1.28
3	0	0	0	0.0	0.0	0.0	0.0
4	1	0	1	1.3	1.3	0.0	1.3
5	2	1	3	1.05	1.1	0.04	1.05
6	1	3	4	1.2	1.36	0.12	1.19
7	2	1	3	1.15	1.34	0.14	1.11
8	0	1	1	1.04	1.04	0.0	1.04
9	1	0	1	1.05	1.05	0.0	1.05
10	0	0	0	0.0	0.0	0.0	0.0

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



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

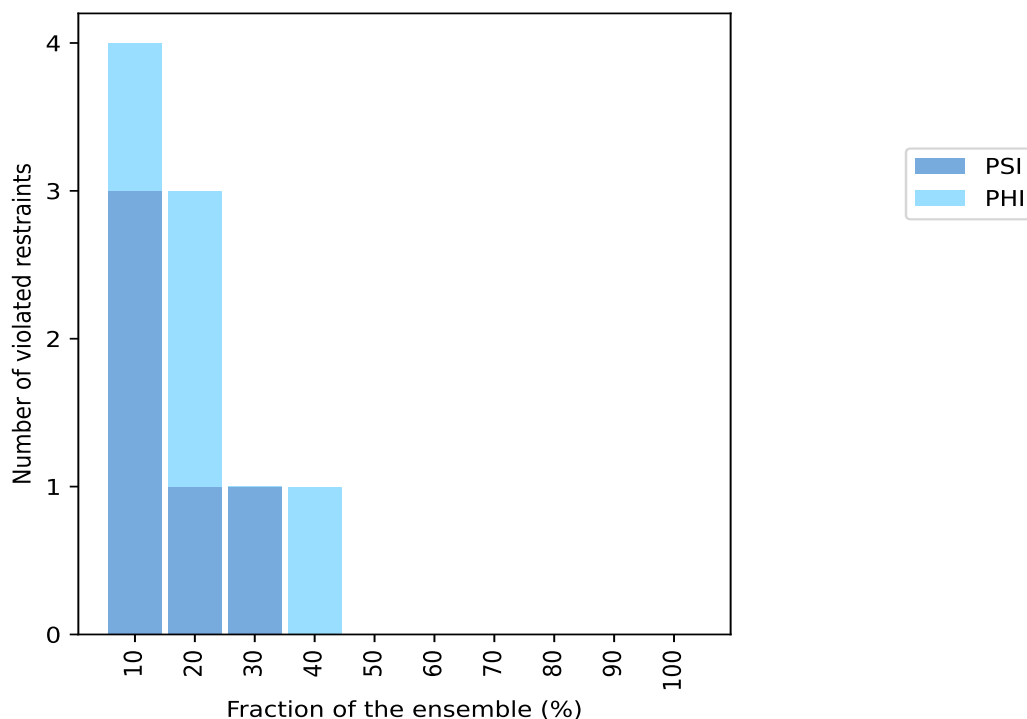
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in very few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of ensemble.

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count ¹	%
3	1	4	1	10.0
1	2	3	2	20.0
1	0	1	3	30.0
0	1	1	4	40.0
0	0	0	5	50.0
0	0	0	6	60.0
0	0	0	7	70.0
0	0	0	8	80.0
0	0	0	9	90.0
0	0	0	10	100.0

¹ Number of models with violations

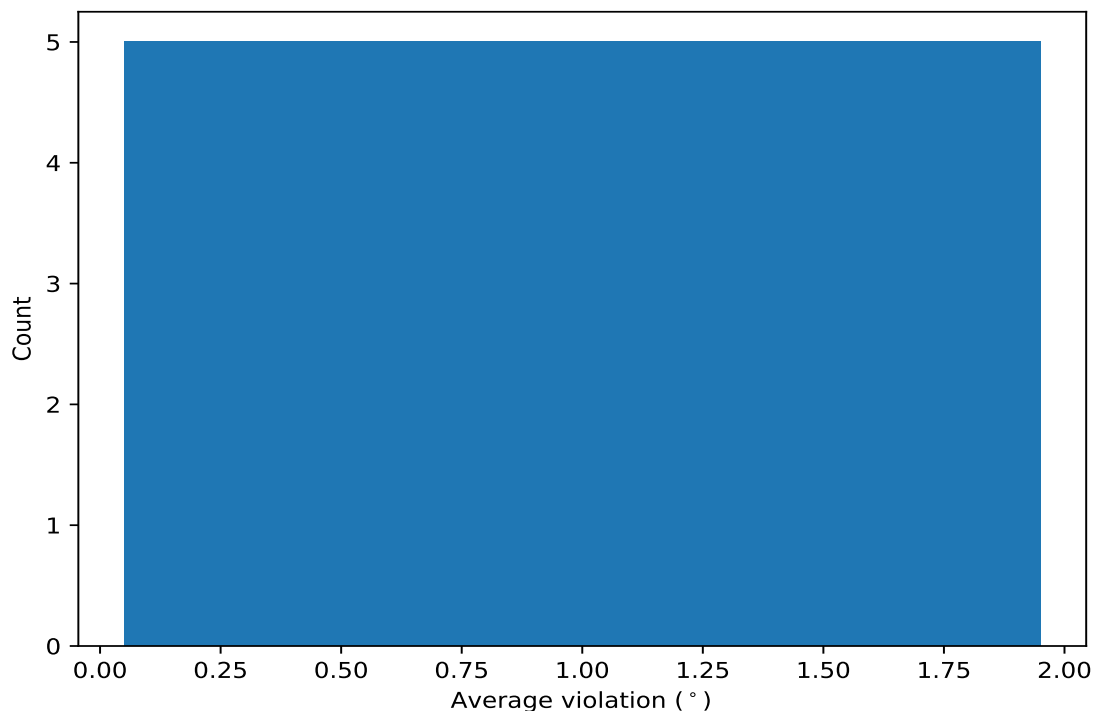
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

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

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



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

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

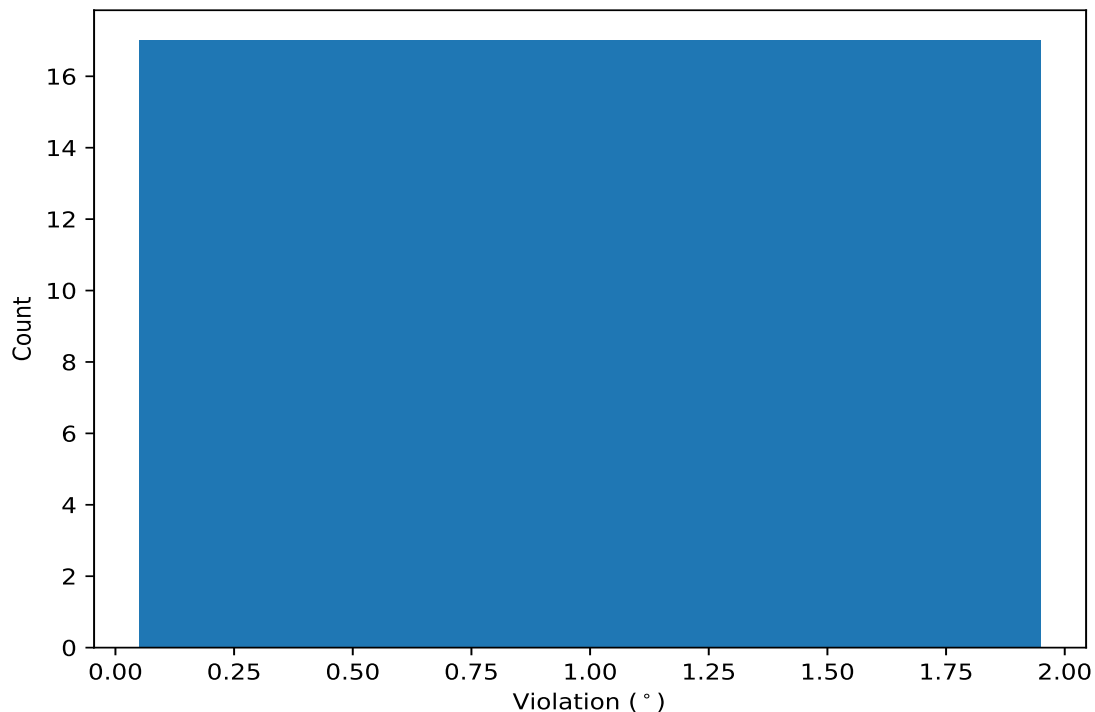
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,172)	1:80:A:LYS:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	4	1.16	0.08	1.14
(1,165)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LEU:N	3	1.33	0.02	1.34
(1,32)	1:12:A:TYR:C	1:13:A:LEU:N	1:13:A:LEU:CA	1:13:A:LEU:C	2	1.13	0.09	1.13
(1,243)	1:159:A:GLU:N	1:159:A:GLU:CA	1:159:A:GLU:C	1:160:A:THR:N	2	1.08	0.03	1.08
(1,22)	1:133:A:LYS:C	1:134:A:ASP:N	1:134:A:ASP:CA	1:134:A:ASP:C	2	1.04	0.01	1.04

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

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

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

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



10.5.2 Table: All violated dihedral-angle restraints [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,165)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LEU:N	6	1.36
(1,165)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LEU:N	7	1.34
(1,165)	1:75:A:THR:N	1:75:A:THR:CA	1:75:A:THR:C	1:76:A:LEU:N	4	1.3
(1,172)	1:80:A:LYS:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	2	1.28
(1,32)	1:12:A:TYR:C	1:13:A:LEU:N	1:13:A:LEU:CA	1:13:A:LEU:C	6	1.22
(1,172)	1:80:A:LYS:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	6	1.17
(1,172)	1:80:A:LYS:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	7	1.11
(1,243)	1:159:A:GLU:N	1:159:A:GLU:CA	1:159:A:GLU:C	1:160:A:THR:N	5	1.1
(1,228)	1:150:A:THR:C	1:151:A:GLU:N	1:151:A:GLU:CA	1:151:A:GLU:C	1	1.07
(1,172)	1:80:A:LYS:C	1:81:A:ASP:N	1:81:A:ASP:CA	1:81:A:ASP:C	1	1.07
(1,243)	1:159:A:GLU:N	1:159:A:GLU:CA	1:159:A:GLU:C	1:160:A:THR:N	9	1.05
(1,22)	1:133:A:LYS:C	1:134:A:ASP:N	1:134:A:ASP:CA	1:134:A:ASP:C	5	1.05
(1,32)	1:12:A:TYR:C	1:13:A:LEU:N	1:13:A:LEU:CA	1:13:A:LEU:C	8	1.04
(1,22)	1:133:A:LYS:C	1:134:A:ASP:N	1:134:A:ASP:CA	1:134:A:ASP:C	6	1.03

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,41)	1:17:A:SER:N	1:17:A:SER:CA	1:17:A:SER:C	1:18:A:THR:N	7	1.01
(1,63)	1:29:A:GLU:N	1:29:A:GLU:CA	1:29:A:GLU:C	1:30:A:ASP:N	1	1.0
(1,51)	1:23:A:SER:N	1:23:A:SER:CA	1:23:A:SER:C	1:24:A:ILE:N	5	1.0