



Full wwPDB NMR Structure Validation Report ⓘ

Mar 6, 2026 – 02:29 PM UTC

PDB ID : 2MCD / pdb_00002mcd
BMRB ID : 19436
Title : Backbone 1H, 13C, and 15N Chemical Shift Assignments for murine norovirus NS1/2 D94E mutant
Authors : Borin, B.; Krezel, A.M.
Deposited on : 2013-08-18

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

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

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

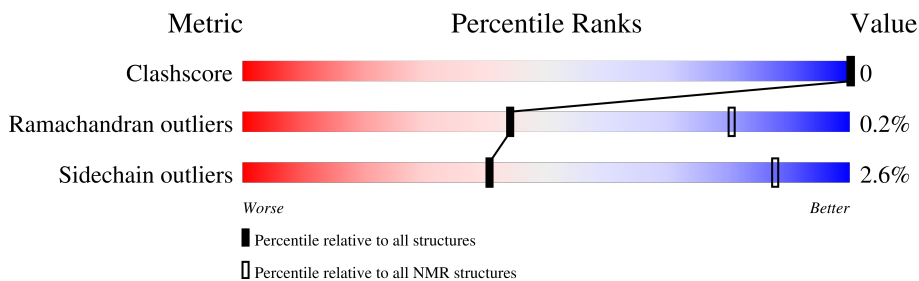
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 76%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	98	

2 Ensemble composition and analysis

This entry contains 20 models. Model 1 is the overall representative, medoid model (most similar to other models).

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:11-A:11, A:28-A:44 (18)	2.78	3
2	A:61-A:114 (54)	0.28	1

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 5 clusters. No single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1530 atoms, of which 746 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Murine norovirus 1.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	98	1530	489	746	147	145	3	0

There are 12 discrepancies between the modelled and reference sequences:

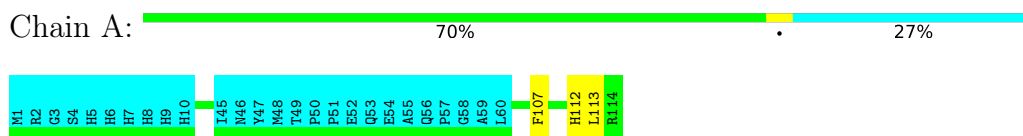
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	expression tag	UNP Q80J95
A	2	ARG	-	expression tag	UNP Q80J95
A	3	GLY	-	expression tag	UNP Q80J95
A	4	SER	-	expression tag	UNP Q80J95
A	5	HIS	-	expression tag	UNP Q80J95
A	6	HIS	-	expression tag	UNP Q80J95
A	7	HIS	-	expression tag	UNP Q80J95
A	8	HIS	-	expression tag	UNP Q80J95
A	9	HIS	-	expression tag	UNP Q80J95
A	10	HIS	-	expression tag	UNP Q80J95
A	11	GLY	-	expression tag	UNP Q80J95
A	94	GLU	ASP	engineered mutation	UNP Q80J95

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Murine norovirus 1

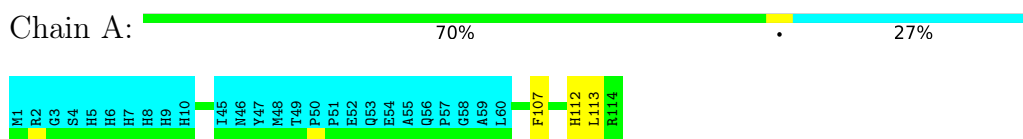


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

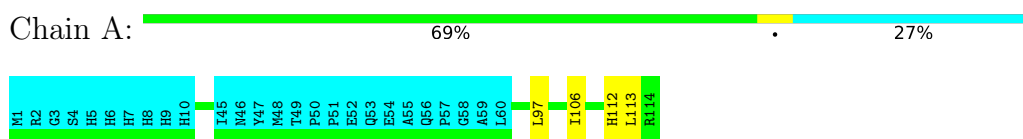
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: Murine norovirus 1



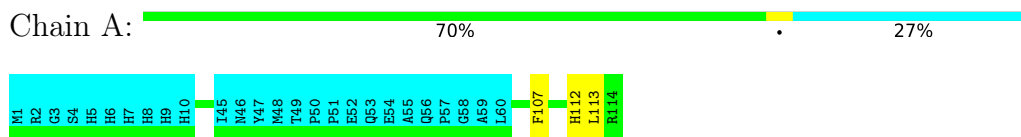
4.2.2 Score per residue for model 2

- Molecule 1: Murine norovirus 1



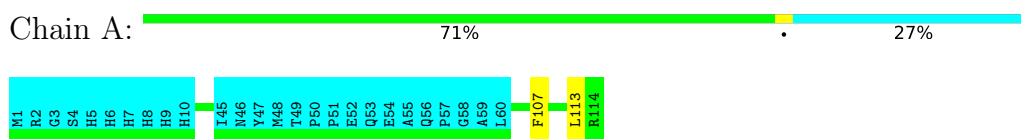
4.2.3 Score per residue for model 3

- Molecule 1: Murine norovirus 1



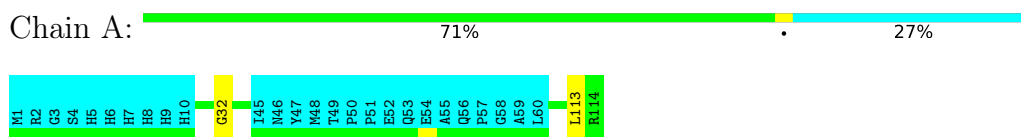
4.2.4 Score per residue for model 4

- Molecule 1: Murine norovirus 1



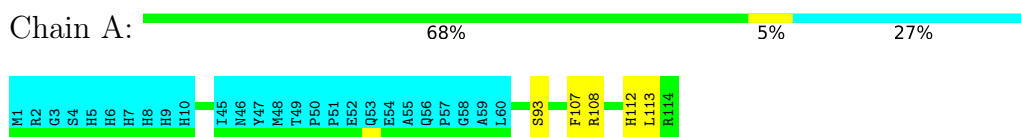
4.2.5 Score per residue for model 5

- Molecule 1: Murine norovirus 1



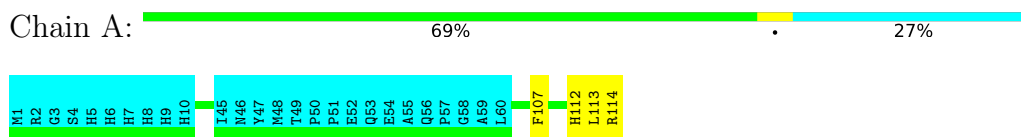
4.2.6 Score per residue for model 6

- Molecule 1: Murine norovirus 1



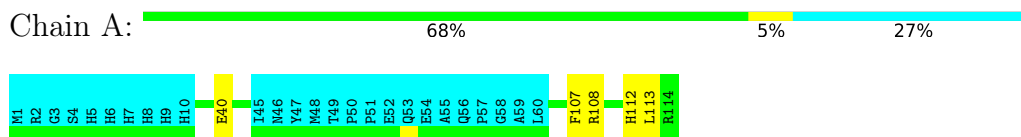
4.2.7 Score per residue for model 7

- Molecule 1: Murine norovirus 1



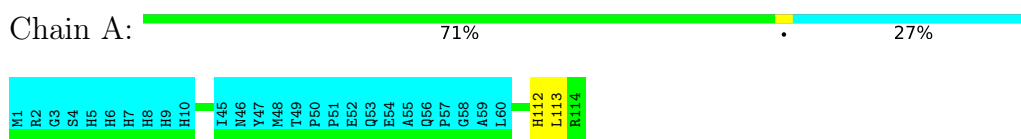
4.2.8 Score per residue for model 8

- Molecule 1: Murine norovirus 1



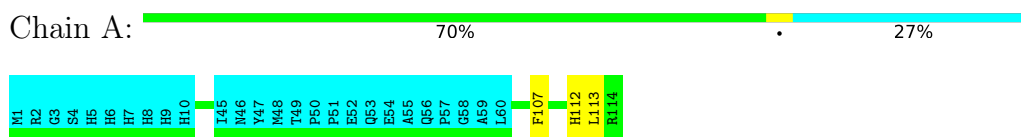
4.2.9 Score per residue for model 9

- Molecule 1: Murine norovirus 1



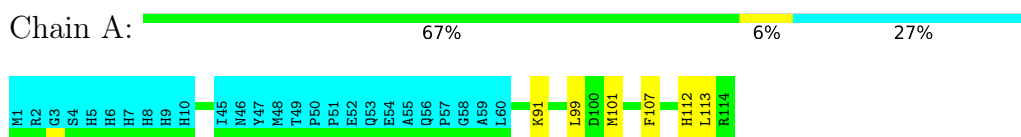
4.2.10 Score per residue for model 10

- Molecule 1: Murine norovirus 1



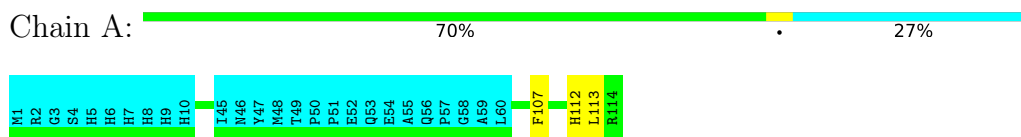
4.2.11 Score per residue for model 11

- Molecule 1: Murine norovirus 1



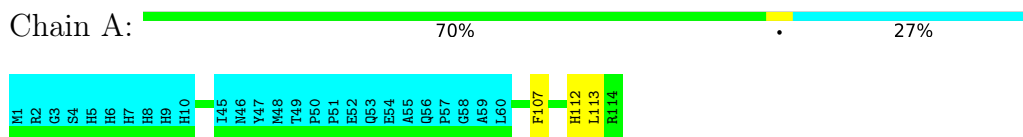
4.2.12 Score per residue for model 12

- Molecule 1: Murine norovirus 1



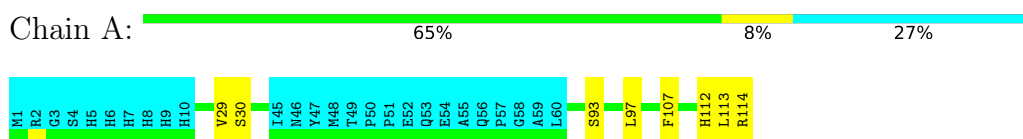
4.2.13 Score per residue for model 13

- Molecule 1: Murine norovirus 1



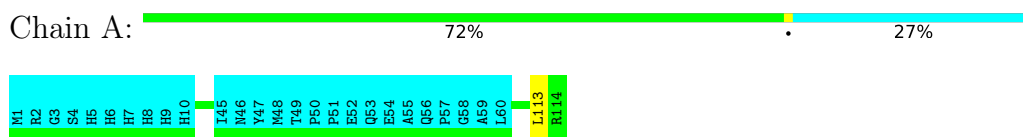
4.2.14 Score per residue for model 14

- Molecule 1: Murine norovirus 1



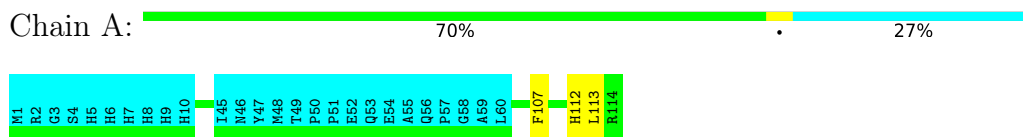
4.2.15 Score per residue for model 15

- Molecule 1: Murine norovirus 1



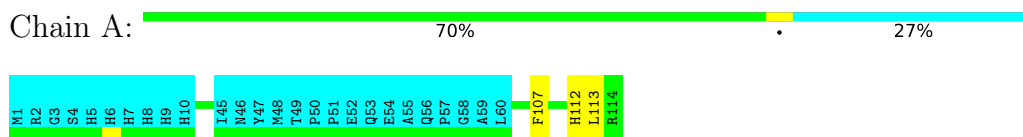
4.2.16 Score per residue for model 16

- Molecule 1: Murine norovirus 1



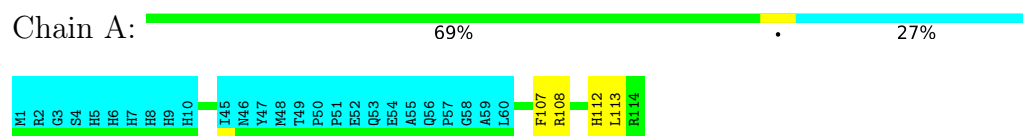
4.2.17 Score per residue for model 17

- Molecule 1: Murine norovirus 1



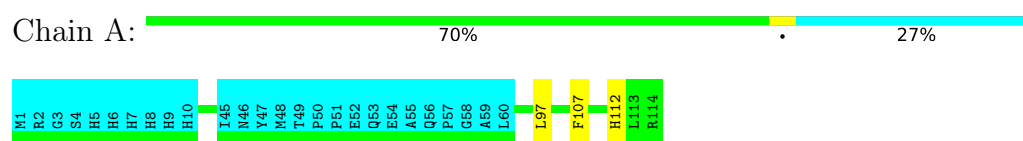
4.2.18 Score per residue for model 18

- Molecule 1: Murine norovirus 1



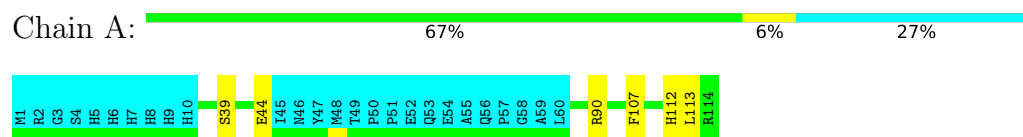
4.2.19 Score per residue for model 19

- Molecule 1: Murine norovirus 1



4.2.20 Score per residue for model 20

- Molecule 1: Murine norovirus 1



5 Refinement protocol and experimental data overview

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

Of the 900 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
TALOS	geometry optimization	
CYANA	structure solution	
Amber	refinement	
ProcheckNMR	geometry optimization	
CYANA	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	911
Number of shifts mapped to atoms	911
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	76%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.94±0.01	0±0/588 (0.0± 0.0%)	1.39±0.02	2±1/794 (0.2± 0.1%)
All	All	0.94	0/11760 (0.0%)	1.39	39/15880 (0.2%)

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	107	PHE	CA-CB-CG	5.95	119.75	113.80	11	16
1	A	93	SER	CA-C-N	5.43	127.06	122.28	6	2
1	A	93	SER	C-N-CA	5.43	127.06	122.28	6	2
1	A	112	HIS	CB-CG-CD2	-5.36	124.24	131.20	20	17
1	A	90	ARG	CA-C-N	5.10	127.11	120.28	20	1
1	A	90	ARG	C-N-CA	5.10	127.11	120.28	20	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	573	557	557	0±0
All	All	11460	11140	11140	1

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 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:99:LEU:HD11	1:A:101:MET:HE2	0.42	1.90	11	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	71/98 (72%)	69±1 (97±2%)	2±1 (3±1%)	0±0 (0±1%)	44 80
All	All	1420/1960 (72%)	1371 (97%)	46 (3%)	3 (0%)	44 80

All 3 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	32	GLY	1
1	A	29	VAL	1
1	A	30	SER	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	61/83 (73%)	59±1 (97±1%)	2±1 (3±1%)	41 88
All	All	1220/1660 (73%)	1188 (97%)	32 (3%)	41 88

All 9 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	113	LEU	19
1	A	97	LEU	3
1	A	108	ARG	3
1	A	114	ARG	2
1	A	106	ILE	1
1	A	40	GLU	1
1	A	91	LYS	1
1	A	39	SER	1
1	A	44	GLU	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 76% for the well-defined parts and 69% 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	911
Number of shifts mapped to atoms	911
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	72	-0.21 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	74	0.36 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}'$	70	0.03 ± 0.18	None needed (< 0.5 ppm)
^{15}N	73	-0.26 ± 0.48	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 76%, i.e. 750 atoms were assigned a chemical shift out of a possible 982. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	298/352 (85%)	124/142 (87%)	114/144 (79%)	60/66 (91%)
Sidechain	422/553 (76%)	284/358 (79%)	138/170 (81%)	0/25 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	30/77 (39%)	28/39 (72%)	0/34 (0%)	2/4 (50%)
Overall	750/982 (76%)	436/539 (81%)	252/348 (72%)	62/95 (65%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 69%, i.e. 911 atoms were assigned a chemical shift out of a possible 1329. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	368/478 (77%)	153/193 (79%)	142/196 (72%)	73/89 (82%)
Sidechain	511/723 (71%)	346/469 (74%)	165/223 (74%)	0/31 (0%)
Aromatic	32/128 (25%)	30/67 (45%)	0/51 (0%)	2/10 (20%)
Overall	911/1329 (69%)	529/729 (73%)	307/470 (65%)	75/130 (58%)

7.1.4 Statistically unusual chemical shifts [i](#)

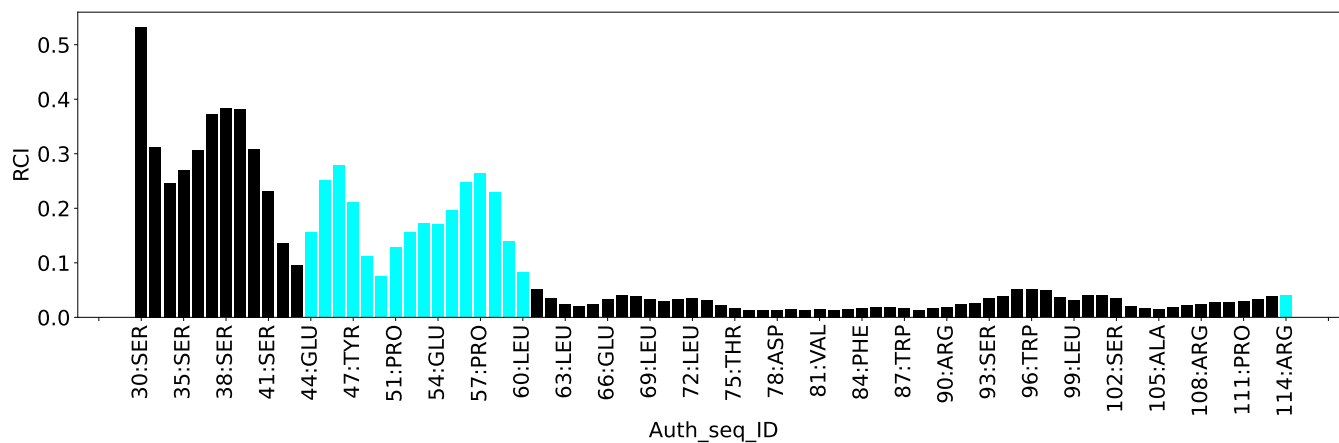
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	99	LEU	HB2	-0.98	-0.07 – 3.30	-7.7
1	A	94	GLU	HB3	0.94	0.95 – 3.05	-5.0

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	703
Intra-residue ($ i-j =0$)	216
Sequential ($ i-j =1$)	205
Medium range ($ i-j >1$ and $ i-j <5$)	106
Long range ($ i-j \geq 5$)	176
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	7.2
Number of long range restraints per residue ¹	1.8

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)	12.3	0.2
0.2-0.5 (Medium)	5.5	0.5
>0.5 (Large)	6.0	1.96

8.2.2 Average number of dihedral-angle violations per model

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

9 Distance violation analysis i

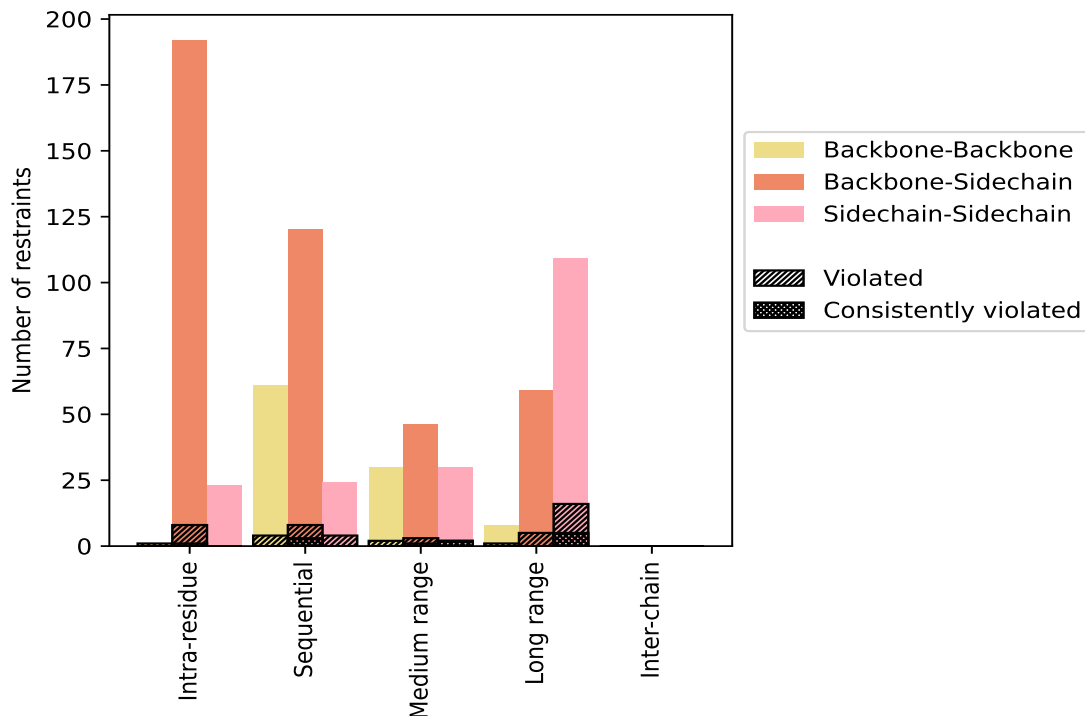
9.1 Summary of distance violations i

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 ($i-j =0$)	216	30.7	9	4.2	1.3	1	0.5	0.1
Backbone-Backbone	1	0.1	1	100.0	0.1	0	0.0	0.0
Backbone-Sidechain	192	27.3	8	4.2	1.1	1	0.5	0.1
Sidechain-Sidechain	23	3.3	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	205	29.2	16	7.8	2.3	3	1.5	0.4
Backbone-Backbone	61	8.7	4	6.6	0.6	0	0.0	0.0
Backbone-Sidechain	120	17.1	8	6.7	1.1	3	2.5	0.4
Sidechain-Sidechain	24	3.4	4	16.7	0.6	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	106	15.1	7	6.6	1.0	3	2.8	0.4
Backbone-Backbone	30	4.3	2	6.7	0.3	0	0.0	0.0
Backbone-Sidechain	46	6.5	3	6.5	0.4	1	2.2	0.1
Sidechain-Sidechain	30	4.3	2	6.7	0.3	2	6.7	0.3
Long range ($i-j \geq 5$)	176	25.0	22	12.5	3.1	5	2.8	0.7
Backbone-Backbone	8	1.1	1	12.5	0.1	0	0.0	0.0
Backbone-Sidechain	59	8.4	5	8.5	0.7	0	0.0	0.0
Sidechain-Sidechain	109	15.5	16	14.7	2.3	5	4.6	0.7
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	703	100.0	54	7.7	7.7	12	1.7	1.7
Backbone-Backbone	100	14.2	8	8.0	1.1	0	0.0	0.0
Backbone-Sidechain	417	59.3	24	5.8	3.4	5	1.2	0.7
Sidechain-Sidechain	186	26.5	22	11.8	3.1	7	3.8	1.0

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

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



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and 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	5	7	4	15	0	31	0.4	1.78	0.42	0.2
2	4	7	5	13	0	29	0.41	1.76	0.44	0.2
3	5	6	4	15	0	30	0.39	1.77	0.42	0.19
4	2	6	4	11	0	23	0.33	1.3	0.3	0.19
5	3	5	4	14	0	26	0.43	1.84	0.46	0.19
6	6	6	4	15	0	31	0.4	1.85	0.42	0.2
7	3	6	3	7	0	19	0.28	0.96	0.25	0.16
8	4	6	5	15	0	30	0.4	1.96	0.45	0.17
9	4	8	5	13	0	30	0.39	1.85	0.43	0.19
10	4	6	4	11	0	25	0.32	1.42	0.32	0.19

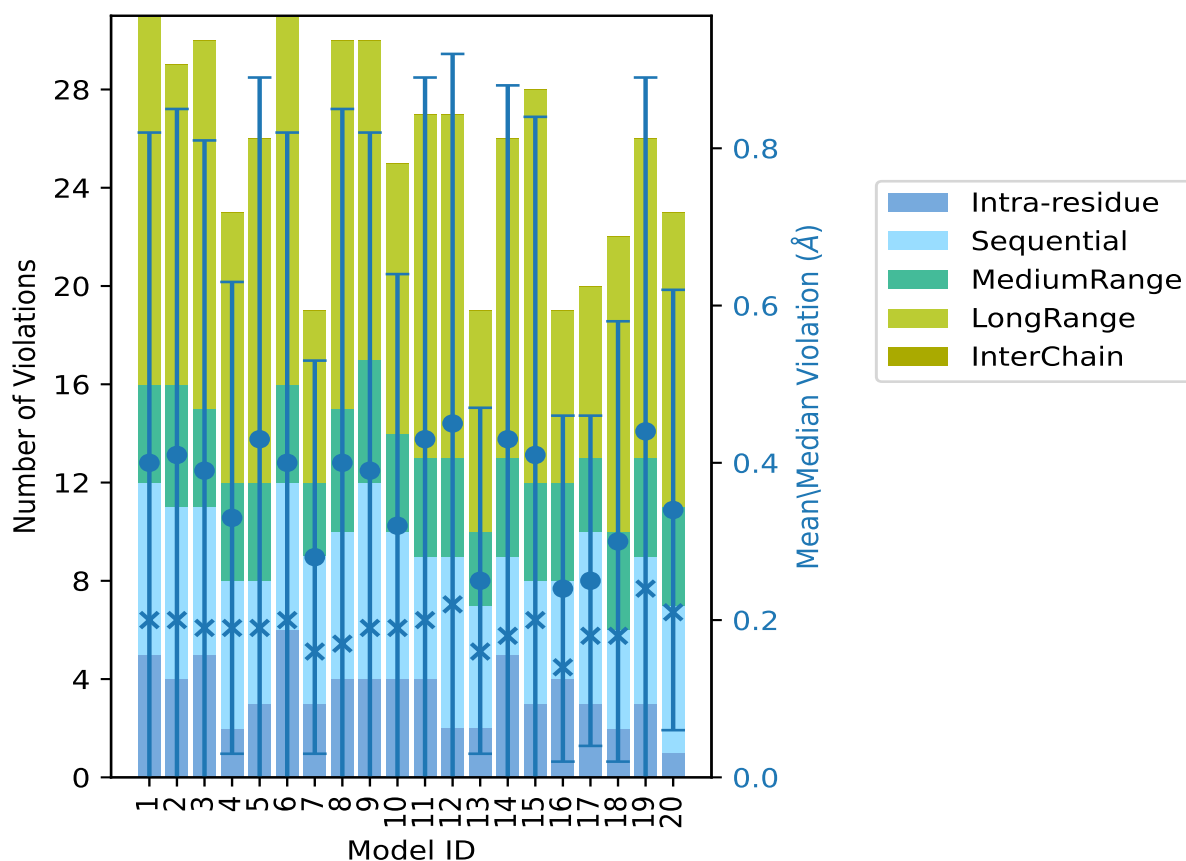
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Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵					
11	4	5	4	14	0	27	0.43	1.88	0.46	0.2
12	2	7	4	14	0	27	0.45	1.95	0.47	0.22
13	2	5	3	9	0	19	0.25	0.95	0.22	0.16
14	5	4	4	13	0	26	0.43	1.79	0.45	0.18
15	3	5	4	16	0	28	0.41	1.78	0.43	0.2
16	4	4	4	7	0	19	0.24	0.94	0.22	0.14
17	3	7	3	7	0	20	0.25	1.01	0.21	0.18
18	2	4	4	12	0	22	0.3	1.15	0.28	0.18
19	3	6	4	13	0	26	0.44	1.88	0.45	0.24
20	1	6	4	12	0	23	0.34	1.23	0.28	0.21

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

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



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

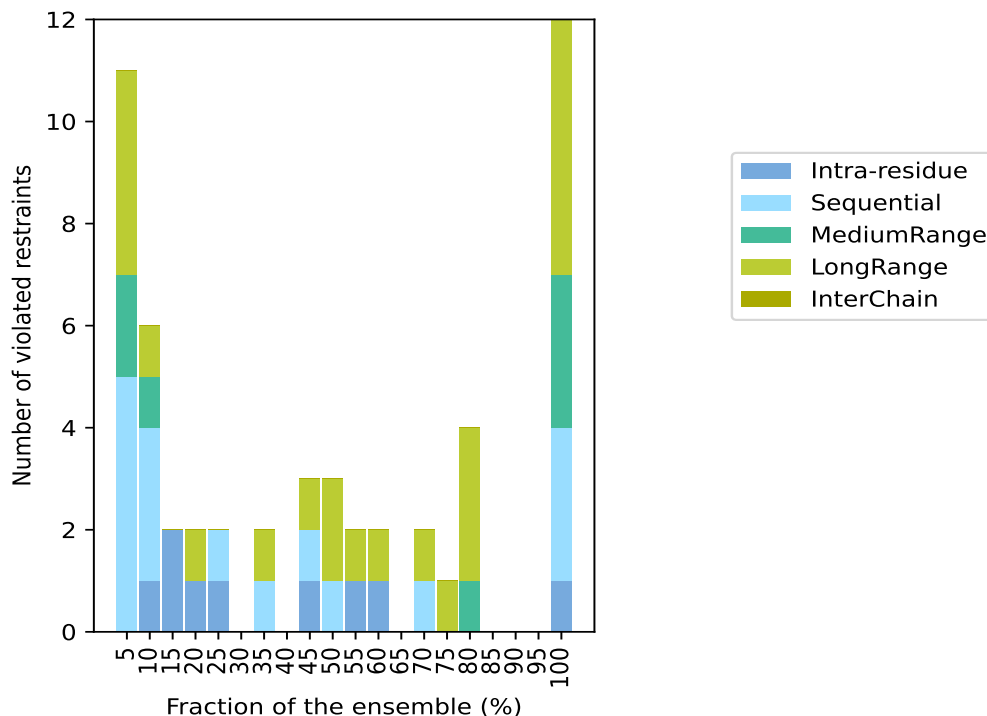
9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 649(IR:207, SQ:189, MR:99, LR:154, IC:0) restraints are not violated in the ensemble.

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

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

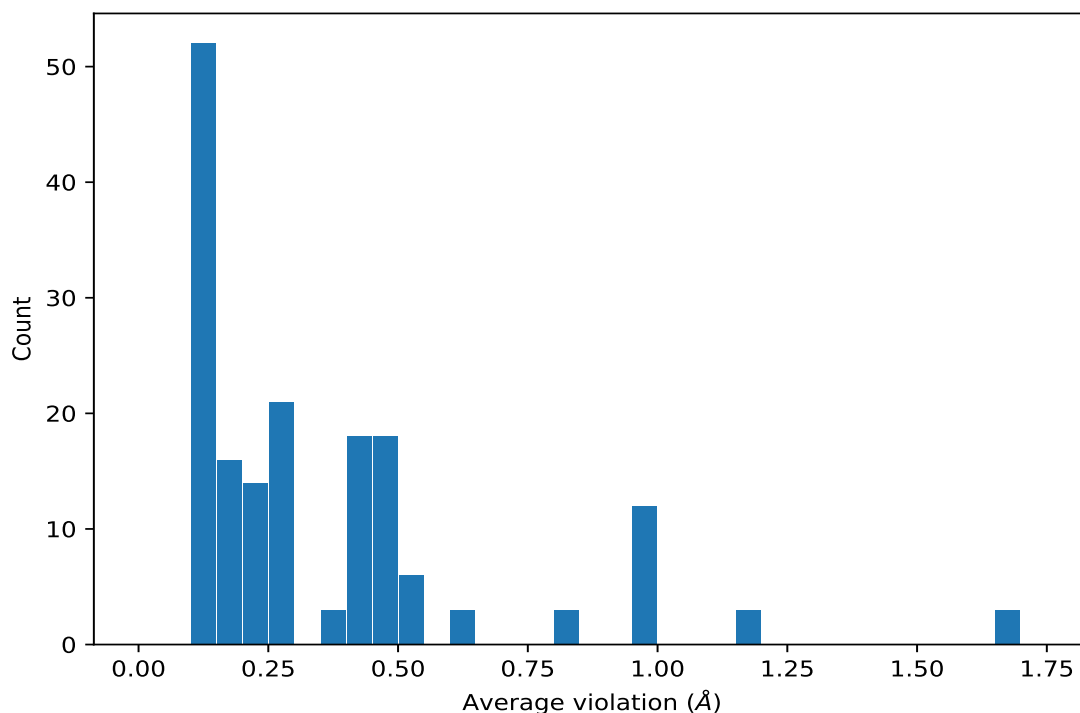
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	20	0.98	0.03	0.98
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	20	0.98	0.03	0.98
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	20	0.98	0.03	0.98
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	20	0.98	0.03	0.98
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	20	0.98	0.03	0.98
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	20	0.98	0.03	0.98
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	20	0.51	0.18	0.57
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	20	0.51	0.18	0.57
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	20	0.51	0.18	0.57
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	20	0.51	0.18	0.57
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	20	0.51	0.18	0.57
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	20	0.51	0.18	0.57
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	20	0.49	0.09	0.53

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	20	0.49	0.09	0.53
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	20	0.49	0.09	0.53
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	20	0.49	0.06	0.48
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	20	0.49	0.06	0.48
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	20	0.49	0.06	0.48
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	20	0.49	0.06	0.48
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	20	0.49	0.06	0.48
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	20	0.49	0.06	0.48
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	20	0.21	0.03	0.21
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	20	0.21	0.03	0.21
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	20	0.2	0.01	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	20	0.2	0.01	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	20	0.2	0.01	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	20	0.2	0.01	0.2
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	20	0.18	0.01	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	20	0.18	0.01	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	20	0.18	0.01	0.18
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	20	0.16	0.02	0.16
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	20	0.14	0.03	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	20	0.14	0.03	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	20	0.14	0.02	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	20	0.14	0.02	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	20	0.14	0.02	0.14
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	20	0.13	0.01	0.13
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	20	0.13	0.01	0.13
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	20	0.13	0.01	0.13
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	16	1.7	0.26	1.78
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	16	1.7	0.26	1.78
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	16	1.7	0.26	1.78
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	16	1.18	0.57	1.48
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	16	1.18	0.57	1.48
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	16	1.18	0.57	1.48
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	16	0.96	0.18	1.0
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	16	0.96	0.18	1.0
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	16	0.96	0.18	1.0
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	16	0.96	0.18	1.0

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	16	0.96	0.18	1.0
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	16	0.96	0.18	1.0
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	16	0.23	0.06	0.22
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	16	0.23	0.06	0.22
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	16	0.23	0.06	0.22
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	16	0.23	0.06	0.22
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	16	0.23	0.06	0.22
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	16	0.23	0.06	0.22
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	15	0.11	0.01	0.11
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	15	0.11	0.01	0.11
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	15	0.11	0.01	0.11
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	14	0.36	0.09	0.36
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	14	0.36	0.09	0.36
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	14	0.36	0.09	0.36
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	14	0.14	0.01	0.14
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	12	0.82	0.02	0.82
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	12	0.82	0.02	0.82
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	12	0.82	0.02	0.82
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	12	0.61	0.06	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	12	0.61	0.06	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	12	0.61	0.06	0.63
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	11	0.18	0.1	0.13
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	11	0.18	0.1	0.13
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	11	0.18	0.1	0.13
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	11	0.18	0.1	0.13
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	11	0.18	0.1	0.13
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	11	0.18	0.1	0.13
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	11	0.11	0.01	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	11	0.11	0.01	0.11
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	10	0.17	0.06	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	10	0.17	0.06	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	10	0.17	0.06	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	10	0.17	0.06	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	10	0.17	0.06	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	10	0.17	0.06	0.16
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	10	0.12	0.01	0.12
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	10	0.12	0.01	0.12
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	10	0.12	0.01	0.12
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	10	0.11	0.01	0.11
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	9	0.3	0.12	0.37
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	9	0.3	0.12	0.37
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	9	0.3	0.12	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	9	0.3	0.12	0.37
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	9	0.3	0.12	0.37
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	9	0.3	0.12	0.37
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	9	0.3	0.12	0.37
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	9	0.3	0.12	0.37
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	9	0.3	0.12	0.37
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	9	0.29	0.12	0.34
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	9	0.29	0.12	0.34
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	9	0.29	0.12	0.34
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	9	0.29	0.12	0.34
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	9	0.29	0.12	0.34
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	9	0.29	0.12	0.34
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	9	0.11	0.01	0.11
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD11	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD12	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD13	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD21	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD22	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD23	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD11	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD12	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD13	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD21	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD22	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD23	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD11	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD12	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD13	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD21	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD22	7	0.42	0.23	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD23	7	0.42	0.23	0.31
(1,429)	1:87:A:TRP:HD1	1:97:A:LEU:HB2	7	0.12	0.01	0.12
(1,353)	1:59:A:ALA:HB1	1:60:A:LEU:H	5	0.14	0.03	0.15
(1,353)	1:59:A:ALA:HB2	1:60:A:LEU:H	5	0.14	0.03	0.15
(1,353)	1:59:A:ALA:HB3	1:60:A:LEU:H	5	0.14	0.03	0.15
(1,440)	1:72:A:LEU:H	1:72:A:LEU:HG	5	0.12	0.02	0.12
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD11	4	0.26	0.01	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD12	4	0.26	0.01	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD13	4	0.26	0.01	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD21	4	0.26	0.01	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD22	4	0.26	0.01	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD23	4	0.26	0.01	0.26

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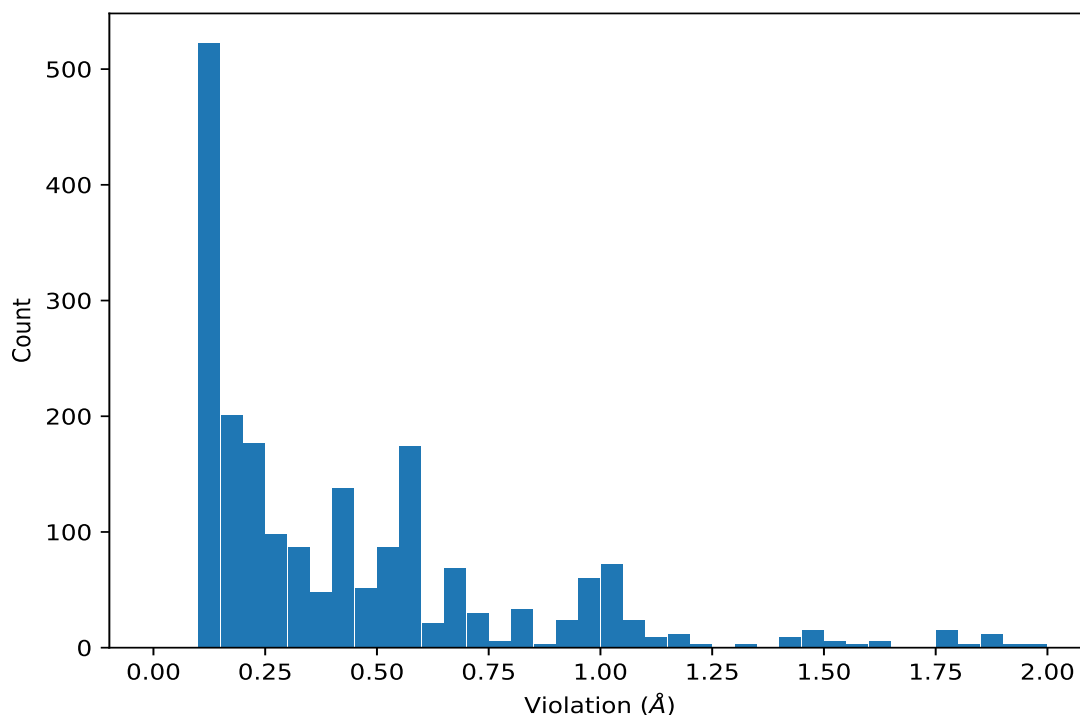
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG11	4	0.11	0.01	0.11
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG12	4	0.11	0.01	0.11
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG13	4	0.11	0.01	0.11
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG21	4	0.11	0.01	0.11
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG22	4	0.11	0.01	0.11
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG23	4	0.11	0.01	0.11
(1,173)	1:89:A:GLU:H	1:89:A:GLU:HG2	3	0.21	0.0	0.21
(1,173)	1:89:A:GLU:H	1:89:A:GLU:HG3	3	0.21	0.0	0.21
(1,54)	1:61:A:ALA:H	1:61:A:ALA:HA	3	0.11	0.0	0.11
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD11	2	0.15	0.01	0.15
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD12	2	0.15	0.01	0.15
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD13	2	0.15	0.01	0.15
(1,22)	1:44:A:GLU:HA	1:45:A:ILE:H	2	0.13	0.01	0.13
(1,550)	1:63:A:LEU:HD11	1:74:A:VAL:H	2	0.13	0.02	0.13
(1,550)	1:63:A:LEU:HD12	1:74:A:VAL:H	2	0.13	0.02	0.13
(1,550)	1:63:A:LEU:HD13	1:74:A:VAL:H	2	0.13	0.02	0.13
(1,550)	1:63:A:LEU:HD21	1:74:A:VAL:H	2	0.13	0.02	0.13
(1,550)	1:63:A:LEU:HD22	1:74:A:VAL:H	2	0.13	0.02	0.13
(1,550)	1:63:A:LEU:HD23	1:74:A:VAL:H	2	0.13	0.02	0.13
(1,45)	1:56:A:GLN:H	1:57:A:PRO:HB2	2	0.12	0.02	0.12
(1,45)	1:56:A:GLN:H	1:57:A:PRO:HB3	2	0.12	0.02	0.12
(1,606)	1:74:A:VAL:HG11	1:75:A:THR:HA	2	0.11	0.0	0.11
(1,606)	1:74:A:VAL:HG12	1:75:A:THR:HA	2	0.11	0.0	0.11
(1,606)	1:74:A:VAL:HG13	1:75:A:THR:HA	2	0.11	0.0	0.11
(1,606)	1:74:A:VAL:HG21	1:75:A:THR:HA	2	0.11	0.0	0.11
(1,606)	1:74:A:VAL:HG22	1:75:A:THR:HA	2	0.11	0.0	0.11
(1,606)	1:74:A:VAL:HG23	1:75:A:THR:HA	2	0.11	0.0	0.11
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD21	2	0.1	0.0	0.1
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD22	2	0.1	0.0	0.1
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD23	2	0.1	0.0	0.1

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)
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	8	1.96
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	8	1.96
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	8	1.96
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	12	1.95
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	12	1.95
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	12	1.95
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	11	1.88
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	11	1.88
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	11	1.88
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	19	1.88
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	19	1.88
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	19	1.88
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	6	1.85
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	6	1.85
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	6	1.85
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	9	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	9	1.85
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	9	1.85
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	5	1.84
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	5	1.84
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	5	1.84
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	14	1.79
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	14	1.79
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	14	1.79
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	1	1.78
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	1	1.78
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	1	1.78
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	15	1.78
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	15	1.78
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	15	1.78
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	3	1.77
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	3	1.77
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	3	1.77
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	2	1.76
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	2	1.76
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	2	1.76
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	2	1.63
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	2	1.63
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	2	1.63
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	12	1.61
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	12	1.61
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	12	1.61
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	11	1.59
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	11	1.59
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	11	1.59
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	19	1.52
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	19	1.52
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	19	1.52
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	8	1.5
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	8	1.5
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	8	1.5
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	1	1.49
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	1	1.49
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	1	1.49
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	5	1.49
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	5	1.49
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	5	1.49
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	14	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	14	1.49
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	14	1.49
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	9	1.48
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	9	1.48
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	9	1.48
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	15	1.46
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	15	1.46
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	15	1.46
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	6	1.45
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	6	1.45
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	6	1.45
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	3	1.42
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	3	1.42
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	3	1.42
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	10	1.42
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	10	1.42
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	10	1.42
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	4	1.3
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	4	1.3
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	4	1.3
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	20	1.23
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	20	1.23
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	20	1.23
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	8	1.16
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	8	1.16
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	8	1.16
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	8	1.16
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	8	1.16
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	8	1.16
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	12	1.16
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	12	1.16
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	12	1.16
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	12	1.16
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	12	1.16
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	12	1.16
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	18	1.15
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	18	1.15
(1,358)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	18	1.15
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	19	1.1
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	19	1.1
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	19	1.1
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	19	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	19	1.1
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	19	1.1
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	11	1.08
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	11	1.08
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	11	1.08
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	11	1.08
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	11	1.08
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	11	1.08
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	5	1.05
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	5	1.05
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	5	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	5	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	5	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	5	1.05
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	6	1.05
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	6	1.05
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	6	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	6	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	6	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	6	1.05
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	9	1.05
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	9	1.05
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	9	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	9	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	9	1.05
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	9	1.05
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	2	1.02
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	2	1.02
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	2	1.02
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	2	1.02
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	2	1.02
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	2	1.02
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	11	1.02
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	11	1.02
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	11	1.02
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	11	1.02
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	11	1.02
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	11	1.02
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	20	1.02
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	20	1.02
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	20	1.02
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	20	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	20	1.02
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	20	1.02
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	1	1.01
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	1	1.01
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	1	1.01
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	1	1.01
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	1	1.01
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	1	1.01
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	17	1.01
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	17	1.01
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	17	1.01
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	17	1.01
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	17	1.01
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	17	1.01
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	14	1.01
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	14	1.01
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	14	1.01
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	14	1.01
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	14	1.01
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	14	1.01
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	5	1.0
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	5	1.0
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	5	1.0
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	5	1.0
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	5	1.0
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	5	1.0
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	9	1.0
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	9	1.0
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	9	1.0
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	9	1.0
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	9	1.0
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	9	1.0
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	14	1.0
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	14	1.0
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	14	1.0
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	14	1.0
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	14	1.0
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	14	1.0
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	19	1.0
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	19	1.0
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	19	1.0
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	19	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	19	1.0
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	19	1.0
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	1	1.0
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	1	1.0
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	1	1.0
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	1	1.0
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	1	1.0
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	1	1.0
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	15	1.0
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	15	1.0
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	15	1.0
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	15	1.0
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	15	1.0
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	15	1.0
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	3	0.98
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	3	0.98
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	3	0.98
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	3	0.98
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	3	0.98
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	3	0.98
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	15	0.98
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	15	0.98
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	15	0.98
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	15	0.98
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	15	0.98
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	15	0.98
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	18	0.98
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	18	0.98
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	18	0.98
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	18	0.98
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	18	0.98
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	18	0.98
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	2	0.98
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	2	0.98
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	2	0.98
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	2	0.98
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	2	0.98
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	2	0.98
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	3	0.98
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	3	0.98
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	3	0.98
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	3	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	3	0.98
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	3	0.98
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	4	0.97
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	4	0.97
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	4	0.97
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	4	0.97
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	4	0.97
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	4	0.97
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	8	0.97
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	8	0.97
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	8	0.97
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	8	0.97
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	8	0.97
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	8	0.97
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	12	0.97
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	12	0.97
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	12	0.97
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	12	0.97
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	12	0.97
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	12	0.97
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	6	0.96
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	6	0.96
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	6	0.96
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	6	0.96
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	6	0.96
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	6	0.96
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	7	0.96
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	7	0.96
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	7	0.96
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	7	0.96
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	7	0.96
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	7	0.96
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	13	0.95
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	13	0.95
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	13	0.95
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	13	0.95
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	13	0.95
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	13	0.95
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	16	0.94
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	16	0.94
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	16	0.94
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	16	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	16	0.94
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	16	0.94
(1,609)	1:74:A:VAL:HG11	1:112:A:HIS:HE1	10	0.92
(1,609)	1:74:A:VAL:HG12	1:112:A:HIS:HE1	10	0.92
(1,609)	1:74:A:VAL:HG13	1:112:A:HIS:HE1	10	0.92
(1,609)	1:74:A:VAL:HG21	1:112:A:HIS:HE1	10	0.92
(1,609)	1:74:A:VAL:HG22	1:112:A:HIS:HE1	10	0.92
(1,609)	1:74:A:VAL:HG23	1:112:A:HIS:HE1	10	0.92
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	10	0.91
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	10	0.91
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	10	0.91
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	10	0.91
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	10	0.91
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	10	0.91
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	11	0.86
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	11	0.86
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	11	0.86
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	2	0.85
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	2	0.85
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	2	0.85
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	8	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	8	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	8	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	9	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	9	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	9	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	12	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	12	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	12	0.83
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	6	0.82
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	6	0.82
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	6	0.82
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	3	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	3	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	3	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	5	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	5	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	5	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	15	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	15	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	15	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	19	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	19	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	19	0.81
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	1	0.8
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	1	0.8
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	1	0.8
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD11	14	0.8
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD12	14	0.8
(1,393)	1:82:A:LEU:HA	1:82:A:LEU:HD13	14	0.8
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	4	0.78
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	4	0.78
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	4	0.78
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	4	0.78
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	4	0.78
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	4	0.78
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	14	0.73
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	14	0.73
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	14	0.73
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	14	0.73
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	14	0.73
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	14	0.73
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	15	0.73
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	15	0.73
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	15	0.73
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	15	0.73
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	15	0.73
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	15	0.73
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	5	0.72
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	5	0.72
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	5	0.72
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	5	0.72
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	5	0.72
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	5	0.72
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	1	0.71
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	1	0.71
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	1	0.71
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	1	0.71
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	1	0.71
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	1	0.71
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	3	0.71
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	3	0.71
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	3	0.71
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	3	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	3	0.71
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	3	0.71
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD11	7	0.7
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD12	7	0.7
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD13	7	0.7
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD21	7	0.7
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD22	7	0.7
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD23	7	0.7
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD11	7	0.7
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD12	7	0.7
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD13	7	0.7
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD21	7	0.7
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD22	7	0.7
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD23	7	0.7
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD11	7	0.7
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD12	7	0.7
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD13	7	0.7
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD21	7	0.7
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD22	7	0.7
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD23	7	0.7
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	2	0.68
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	2	0.68
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	2	0.68
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD11	1	0.67
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD12	1	0.67
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD13	1	0.67
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD21	1	0.67
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD22	1	0.67
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD23	1	0.67
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD11	1	0.67
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD12	1	0.67
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD13	1	0.67
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD21	1	0.67
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD22	1	0.67
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD23	1	0.67
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD11	1	0.67
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD12	1	0.67
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD13	1	0.67
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD21	1	0.67
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD22	1	0.67
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD23	1	0.67
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	3	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	3	0.67
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	3	0.67
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	6	0.67
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	6	0.67
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	6	0.67
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD11	6	0.66
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD12	6	0.66
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD13	6	0.66
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD21	6	0.66
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD22	6	0.66
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD23	6	0.66
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD11	6	0.66
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD12	6	0.66
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD13	6	0.66
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD21	6	0.66
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD22	6	0.66
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD23	6	0.66
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD11	6	0.66
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD12	6	0.66
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD13	6	0.66
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD21	6	0.66
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD22	6	0.66
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD23	6	0.66
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	10	0.65
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	10	0.65
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	10	0.65
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	10	0.65
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	10	0.65
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	10	0.65
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	5	0.64
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	5	0.64
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	5	0.64
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	1	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	1	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	1	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	8	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	8	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	8	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	14	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	14	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	14	0.63
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	15	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	15	0.62
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	15	0.62
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	16	0.61
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	16	0.61
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	16	0.61
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	16	0.61
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	16	0.61
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	16	0.61
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	7	0.6
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	7	0.6
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	7	0.6
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	7	0.6
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	7	0.6
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	7	0.6
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	7	0.6
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	7	0.6
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	7	0.6
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	7	0.6
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	7	0.6
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	7	0.6
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	4	0.6
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	4	0.6
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	4	0.6
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	4	0.6
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	4	0.6
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	4	0.6
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	12	0.6
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	12	0.6
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	12	0.6
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	12	0.6
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	12	0.6
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	12	0.6
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	14	0.59
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	14	0.59
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	14	0.59
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	14	0.59
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	14	0.59
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	14	0.59
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	14	0.59
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	14	0.59
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	14	0.59
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	14	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	14	0.59
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	14	0.59
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	7	0.59
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	7	0.59
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	7	0.59
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	7	0.59
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	7	0.59
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	7	0.59
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	12	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	12	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	12	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	12	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	12	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	12	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	12	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	12	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	12	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	12	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	12	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	12	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	17	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	17	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	17	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	17	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	17	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	17	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	17	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	17	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	17	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	17	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	17	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	17	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	20	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	20	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	20	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	20	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	20	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	20	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	20	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	20	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	20	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	20	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	20	0.58
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	20	0.58
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	20	0.58
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	20	0.58
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	20	0.58
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	20	0.58
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	20	0.58
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	20	0.58
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	2	0.58
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	2	0.58
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	2	0.58
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	2	0.58
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	2	0.58
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	2	0.58
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	5	0.57
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	5	0.57
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	5	0.57
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	5	0.57
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	5	0.57
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	5	0.57
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	5	0.57
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	5	0.57
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	5	0.57
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	5	0.57
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	5	0.57
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	5	0.57
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	20	0.57
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	20	0.57
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	20	0.57
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	20	0.57
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	20	0.57
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	20	0.57
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	11	0.56
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	11	0.56
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	11	0.56
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	11	0.56
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	11	0.56
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	11	0.56
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	11	0.56
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	11	0.56
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	11	0.56
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	11	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	11	0.56
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	11	0.56
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	13	0.56
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	13	0.56
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	13	0.56
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	13	0.56
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	13	0.56
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	13	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	9	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	9	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	9	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	9	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	9	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	9	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	18	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	18	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	18	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	18	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	18	0.56
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	18	0.56
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	11	0.56
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	11	0.56
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	11	0.56
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	12	0.56
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	12	0.56
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	12	0.56
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	2	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	2	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	2	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	2	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	2	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	2	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	2	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	2	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	2	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	2	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	2	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	2	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	19	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	19	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	19	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	19	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	19	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	19	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	19	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	19	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	19	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	19	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	19	0.55
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	19	0.55
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	13	0.55
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	13	0.55
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	13	0.55
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	13	0.55
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	13	0.55
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	13	0.55
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	9	0.54
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	9	0.54
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	9	0.54
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	9	0.54
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	9	0.54
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	9	0.54
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	9	0.54
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	9	0.54
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	9	0.54
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	9	0.54
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	9	0.54
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	9	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	11	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	11	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	11	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	11	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	11	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	11	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	19	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	19	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	19	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	19	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	19	0.54
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	19	0.54
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	1	0.52
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	1	0.52
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	1	0.52
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	1	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	1	0.52
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	1	0.52
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	1	0.52
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	1	0.52
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	1	0.52
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	1	0.52
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	1	0.52
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	1	0.52
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	17	0.52
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	17	0.52
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	17	0.52
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	17	0.52
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	17	0.52
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	17	0.52
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	9	0.52
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	9	0.52
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	9	0.52
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD21	18	0.51
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD22	18	0.51
(1,600)	1:73:A:PRO:HD2	1:82:A:LEU:HD23	18	0.51
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	18	0.51
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	18	0.51
(1,600)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	18	0.51
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	8	0.51
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	8	0.51
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	8	0.51
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	16	0.5
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	16	0.5
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	16	0.5
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	16	0.5
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	16	0.5
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	16	0.5
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	16	0.5
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	16	0.5
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	16	0.5
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	16	0.5
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	16	0.5
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	16	0.5
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	6	0.5
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	6	0.5
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	6	0.5
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	6	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	6	0.5
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	6	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	6	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	6	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	6	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	6	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	6	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	6	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	8	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	8	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	8	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	8	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	8	0.5
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	8	0.5
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	12	0.5
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	12	0.5
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	12	0.5
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	8	0.49
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	8	0.49
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	8	0.49
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	8	0.49
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	8	0.49
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	8	0.49
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	13	0.47
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	13	0.47
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	13	0.47
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	13	0.47
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	13	0.47
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	13	0.47
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	13	0.47
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	13	0.47
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	13	0.47
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	13	0.47
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	13	0.47
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	13	0.47
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	4	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	4	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	4	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	4	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	4	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	4	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	16	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	16	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	16	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	16	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	16	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	16	0.46
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD21	19	0.46
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD22	19	0.46
(1,401)	1:73:A:PRO:HA	1:82:A:LEU:HD23	19	0.46
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	1	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	1	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	1	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	1	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	1	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	1	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	7	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	7	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	7	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	7	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	7	0.45
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	7	0.45
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	8	0.45
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	8	0.45
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	8	0.45
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	8	0.45
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	8	0.45
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	8	0.45
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	3	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	3	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	3	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	3	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	3	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	3	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	3	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	3	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	3	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	3	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	3	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	3	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	15	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	15	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	15	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	15	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	15	0.44
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	15	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	15	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	15	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	15	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	15	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	15	0.44
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	15	0.44
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	12	0.44
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	12	0.44
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	12	0.44
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	12	0.44
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	12	0.44
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	12	0.44
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	19	0.44
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	19	0.44
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	19	0.44
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	2	0.43
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	2	0.43
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	2	0.43
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	2	0.43
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	2	0.43
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	2	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	3	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	3	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	3	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	3	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	3	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	3	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	10	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	10	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	10	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	10	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	10	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	10	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	15	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	15	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	15	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	15	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	15	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	15	0.43
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	12	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	12	0.43
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	12	0.43
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	12	0.43
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	12	0.43
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	12	0.43
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	4	0.43
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	4	0.43
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	4	0.43
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	4	0.43
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	4	0.43
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	4	0.43
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	4	0.43
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	4	0.43
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	4	0.43
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	5	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	5	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	5	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	5	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	5	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	5	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD11	14	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD12	14	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD13	14	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD21	14	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD22	14	0.42
(1,565)	1:64:A:HIS:HD2	1:72:A:LEU:HD23	14	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	10	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	10	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	10	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	10	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	10	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	10	0.42
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	10	0.42
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	10	0.42
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	10	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	18	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	18	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	18	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	18	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	18	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	18	0.42
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	18	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	18	0.42
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	18	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	20	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	20	0.42
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	20	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	20	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	20	0.42
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	20	0.42
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	20	0.42
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	20	0.42
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	20	0.42
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	18	0.41
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	18	0.41
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	18	0.41
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	18	0.41
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	18	0.41
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	18	0.41
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	18	0.41
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	18	0.41
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	18	0.41
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	18	0.41
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	18	0.41
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	18	0.41
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	11	0.41
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	11	0.41
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	11	0.41
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	8	0.4
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	8	0.4
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	8	0.4
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	8	0.4
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	8	0.4
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	8	0.4
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	8	0.4
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	8	0.4
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	8	0.4
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	8	0.4
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	8	0.4
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	8	0.4
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	4	0.38
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	4	0.38
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	4	0.38
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	4	0.38
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	4	0.38
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	4	0.38
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	4	0.38
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	4	0.38
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	4	0.38
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	4	0.38
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	4	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	5	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	5	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	5	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	6	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	6	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	6	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	9	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	9	0.38
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	9	0.38
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	6	0.37
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	6	0.37
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	6	0.37
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	6	0.37
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	6	0.37
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	6	0.37
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	6	0.37
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	6	0.37
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	6	0.37
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	6	0.37
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	6	0.37
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	6	0.37
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	19	0.37
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	19	0.37
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	19	0.37
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	19	0.37
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	19	0.37
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	19	0.37
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	15	0.37
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	15	0.37
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	15	0.37
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	15	0.37
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	15	0.37
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	15	0.37
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	15	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	15	0.37
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	15	0.37
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	18	0.34
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	18	0.34
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	18	0.34
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	18	0.34
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	18	0.34
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	18	0.34
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	10	0.34
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	10	0.34
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	10	0.34
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	10	0.34
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	10	0.34
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	10	0.34
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	19	0.34
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	19	0.34
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	19	0.34
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	19	0.34
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	19	0.34
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	19	0.34
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	20	0.34
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	20	0.34
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	20	0.34
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	20	0.34
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	20	0.34
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	20	0.34
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	14	0.34
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	14	0.34
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	14	0.34
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	1	0.33
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	1	0.33
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	1	0.33
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	15	0.33
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	15	0.33
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	15	0.33
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	9	0.32
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	9	0.32
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	9	0.32
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	9	0.32
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	9	0.32
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	9	0.32
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	11	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	11	0.31
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	11	0.31
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	11	0.31
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	11	0.31
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	11	0.31
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	2	0.31
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	2	0.31
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	2	0.31
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	2	0.31
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	2	0.31
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	2	0.31
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	19	0.31
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	19	0.31
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	19	0.31
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	19	0.31
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	19	0.31
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	19	0.31
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	20	0.31
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	20	0.31
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	20	0.31
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	20	0.31
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	20	0.31
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	20	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD11	20	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD12	20	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD13	20	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD21	20	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD22	20	0.31
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD23	20	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD11	20	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD12	20	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD13	20	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD21	20	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD22	20	0.31
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD23	20	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD11	20	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD12	20	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD13	20	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD21	20	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD22	20	0.31
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD23	20	0.31
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	2	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	2	0.31
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	2	0.31
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	3	0.31
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	3	0.31
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	3	0.31
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	15	0.29
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	15	0.29
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	15	0.29
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	15	0.29
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	15	0.29
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	15	0.29
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	17	0.29
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	17	0.29
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	17	0.29
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	17	0.29
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	17	0.29
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	17	0.29
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	20	0.29
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	20	0.29
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	20	0.29
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	12	0.29
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	12	0.29
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	6	0.28
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	6	0.28
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	6	0.28
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	6	0.28
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	6	0.28
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	6	0.28
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	6	0.28
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	6	0.28
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	6	0.28
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	6	0.28
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	6	0.28
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	6	0.28
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD11	1	0.28
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD12	1	0.28
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD13	1	0.28
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD21	1	0.28
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD22	1	0.28
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD23	1	0.28
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD11	9	0.28
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD12	9	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD13	9	0.28
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD21	9	0.28
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD22	9	0.28
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD23	9	0.28
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD11	9	0.28
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD12	9	0.28
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD13	9	0.28
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD21	9	0.28
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD22	9	0.28
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD23	9	0.28
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD11	9	0.28
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD12	9	0.28
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD13	9	0.28
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD21	9	0.28
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD22	9	0.28
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD23	9	0.28
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	10	0.28
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	10	0.28
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	10	0.28
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	11	0.27
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	11	0.27
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	11	0.27
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	11	0.27
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	11	0.27
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	11	0.27
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	19	0.26
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	19	0.26
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	19	0.26
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	19	0.26
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	19	0.26
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	19	0.26
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	3	0.26
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	3	0.26
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	3	0.26
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	3	0.26
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	3	0.26
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	3	0.26
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	4	0.26
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	4	0.26
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	4	0.26
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	4	0.26
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	4	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD11	2	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD12	2	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD13	2	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD21	2	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD22	2	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD23	2	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD11	3	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD12	3	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD13	3	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD21	3	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD22	3	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD23	3	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD11	14	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD12	14	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD13	14	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD21	14	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD22	14	0.26
(1,529)	1:60:A:LEU:HA	1:60:A:LEU:HD23	14	0.26
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD11	10	0.24
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD12	10	0.24
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD13	10	0.24
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD21	10	0.24
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD22	10	0.24
(1,694)	1:110:A:TYR:HD1	1:113:A:LEU:HD23	10	0.24
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD11	10	0.24
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD12	10	0.24
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD13	10	0.24
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD21	10	0.24
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD22	10	0.24
(1,694)	1:110:A:TYR:HD2	1:113:A:LEU:HD23	10	0.24
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	18	0.24
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	18	0.24
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	18	0.24
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	18	0.24
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	18	0.24
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	18	0.24
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	4	0.24
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	4	0.24
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	4	0.24
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	16	0.24
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	4	0.23
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	4	0.23
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	4	0.23
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	4	0.23
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	4	0.23
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	4	0.23
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	19	0.23
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	19	0.23
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	9	0.23
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	9	0.23
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	9	0.23
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	9	0.23
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	9	0.23
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	9	0.23
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	11	0.23
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	11	0.23
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	11	0.23
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	11	0.23
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	11	0.23
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	11	0.23
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	6	0.23
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	6	0.23
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	8	0.23
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	8	0.23
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	13	0.23
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	13	0.23
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	2	0.22
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	2	0.22
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	2	0.22
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	12	0.22
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	12	0.22
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	12	0.22
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	3	0.22
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	12	0.22
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	16	0.22
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	18	0.22
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	18	0.22
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	17	0.21
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	17	0.21
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	17	0.21
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	17	0.21
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	17	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	17	0.21
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	1	0.21
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	1	0.21
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	1	0.21
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	1	0.21
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	1	0.21
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	1	0.21
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	2	0.21
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	2	0.21
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	2	0.21
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	2	0.21
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	2	0.21
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	2	0.21
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	5	0.21
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	5	0.21
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	5	0.21
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	5	0.21
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	5	0.21
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	5	0.21
(1,592)	1:72:A:LEU:HD11	1:112:A:HIS:HE1	17	0.21
(1,592)	1:72:A:LEU:HD12	1:112:A:HIS:HE1	17	0.21
(1,592)	1:72:A:LEU:HD13	1:112:A:HIS:HE1	17	0.21
(1,592)	1:72:A:LEU:HD21	1:112:A:HIS:HE1	17	0.21
(1,592)	1:72:A:LEU:HD22	1:112:A:HIS:HE1	17	0.21
(1,592)	1:72:A:LEU:HD23	1:112:A:HIS:HE1	17	0.21
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD11	19	0.21
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD12	19	0.21
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD13	19	0.21
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD21	19	0.21
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD22	19	0.21
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD23	19	0.21
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD11	19	0.21
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD12	19	0.21
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD13	19	0.21
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD21	19	0.21
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD22	19	0.21
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD23	19	0.21
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD11	19	0.21
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD12	19	0.21
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD13	19	0.21
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD21	19	0.21
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD22	19	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD23	19	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	1	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	1	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	1	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	7	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	7	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	7	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	14	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	14	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	14	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	15	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	15	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	15	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	16	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	16	0.21
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	16	0.21
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	6	0.21
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	10	0.21
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	13	0.21
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	20	0.21
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	1	0.21
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	1	0.21
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	5	0.21
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	5	0.21
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	11	0.21
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	11	0.21
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	17	0.21
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	17	0.21
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	20	0.21
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	20	0.21
(1,173)	1:89:A:GLU:H	1:89:A:GLU:HG2	10	0.21
(1,173)	1:89:A:GLU:H	1:89:A:GLU:HG3	10	0.21
(1,173)	1:89:A:GLU:H	1:89:A:GLU:HG2	17	0.21
(1,173)	1:89:A:GLU:H	1:89:A:GLU:HG3	17	0.21
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	6	0.2
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	6	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	5	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	5	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	5	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	6	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	6	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	9	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	9	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	9	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	10	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	10	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	10	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	13	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	13	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	13	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	18	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	18	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	18	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	20	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	20	0.2
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	20	0.2
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	1	0.2
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	2	0.2
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	7	0.2
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	8	0.2
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	11	0.2
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	15	0.2
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	17	0.2
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	3	0.2
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	3	0.2
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	7	0.2
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	7	0.2
(1,173)	1:89:A:GLU:H	1:89:A:GLU:HG2	6	0.2
(1,173)	1:89:A:GLU:H	1:89:A:GLU:HG3	6	0.2
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	9	0.19
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	9	0.19
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	9	0.19
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	9	0.19
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	9	0.19
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	9	0.19
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	12	0.19
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	12	0.19
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	12	0.19
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	12	0.19
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	12	0.19
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	12	0.19
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	4	0.19
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	4	0.19
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	10	0.19
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	10	0.19
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	10	0.19
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	3	0.19
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	3	0.19
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	3	0.19
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	3	0.19
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	3	0.19
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	3	0.19
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	3	0.19
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	3	0.19
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	3	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	3	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	3	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	3	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	9	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	9	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	9	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	20	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	20	0.19
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	20	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	4	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	4	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	4	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	8	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	8	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	8	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	11	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	11	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	11	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	17	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	17	0.19
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	17	0.19
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	9	0.19
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	18	0.19
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	19	0.19
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	9	0.19
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	9	0.19
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	10	0.19
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	10	0.19
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	15	0.19
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	13	0.18
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	13	0.18
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	20	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	1	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	1	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	1	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	2	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	2	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	2	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	4	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	4	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	4	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	7	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	7	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	7	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	8	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	8	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	8	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	10	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	10	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	10	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	11	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	11	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	11	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	12	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	12	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	12	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	14	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	14	0.18
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	14	0.18
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	3	0.18
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	3	0.18
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	3	0.18
(1,353)	1:59:A:ALA:HB1	1:60:A:LEU:H	17	0.18
(1,353)	1:59:A:ALA:HB2	1:60:A:LEU:H	17	0.18
(1,353)	1:59:A:ALA:HB3	1:60:A:LEU:H	17	0.18
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	5	0.18
(1,255)	1:87:A:TRP:HE1	1:99:A:LEU:HG	14	0.18
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	2	0.18
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	2	0.18
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	14	0.18
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	9	0.17
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	9	0.17
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	20	0.17
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	20	0.17
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	14	0.17
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	14	0.17
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	14	0.17
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	14	0.17
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	14	0.17
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	14	0.17
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	4	0.17
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	6	0.17
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	16	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	5	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	5	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	5	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	6	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	6	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	6	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	13	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	13	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	13	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	15	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	15	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	15	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	16	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	16	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	16	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	17	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	17	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	17	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	18	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	18	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	18	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD21	19	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD22	19	0.17
(1,373)	1:87:A:TRP:HZ3	1:99:A:LEU:HD23	19	0.17
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE1	19	0.17
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE2	19	0.17
(1,368)	1:99:A:LEU:HG	1:101:A:MET:HE3	19	0.17
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	2	0.17
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	2	0.17
(1,182)	1:90:A:ARG:HG2	1:91:A:LYS:H	19	0.17
(1,182)	1:90:A:ARG:HG3	1:91:A:LYS:H	19	0.17
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	11	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	11	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	11	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	11	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	11	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	11	0.16
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	4	0.16
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	4	0.16
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	14	0.16
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	14	0.16
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	14	0.16
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	14	0.16
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	14	0.16
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	14	0.16
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	14	0.16
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	14	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	1	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	3	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	5	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	7	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	8	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	9	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	10	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	11	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	12	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	13	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	15	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	17	0.16
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	18	0.16
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	5	0.16
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	5	0.16
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	5	0.16
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	5	0.16
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	5	0.16
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	5	0.16
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	5	0.16
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	5	0.16
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	14	0.16
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	14	0.16
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	14	0.16
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	14	0.16
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	14	0.16
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	14	0.16
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	14	0.16
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	14	0.16
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	14	0.16
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	9	0.16
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	9	0.16
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	9	0.16
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	15	0.16
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	15	0.16
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	15	0.16
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD11	2	0.16
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD12	2	0.16
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD13	2	0.16
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	1	0.16
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	18	0.15
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	18	0.15
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	18	0.15
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	18	0.15
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	18	0.15
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	18	0.15
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	2	0.15
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	2	0.15
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	20	0.15
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	20	0.15
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	20	0.15
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	20	0.15
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	20	0.15
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	20	0.15
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	9	0.15
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	9	0.15
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	9	0.15
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	9	0.15
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	9	0.15
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	9	0.15
(1,550)	1:63:A:LEU:HD11	1:74:A:VAL:H	13	0.15
(1,550)	1:63:A:LEU:HD12	1:74:A:VAL:H	13	0.15
(1,550)	1:63:A:LEU:HD13	1:74:A:VAL:H	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:63:A:LEU:HD21	1:74:A:VAL:H	13	0.15
(1,550)	1:63:A:LEU:HD22	1:74:A:VAL:H	13	0.15
(1,550)	1:63:A:LEU:HD23	1:74:A:VAL:H	13	0.15
(1,440)	1:72:A:LEU:H	1:72:A:LEU:HG	17	0.15
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD11	1	0.15
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD12	1	0.15
(1,395)	1:61:A:ALA:HB1	1:82:A:LEU:HD13	1	0.15
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD11	1	0.15
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD12	1	0.15
(1,395)	1:61:A:ALA:HB2	1:82:A:LEU:HD13	1	0.15
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD11	1	0.15
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD12	1	0.15
(1,395)	1:61:A:ALA:HB3	1:82:A:LEU:HD13	1	0.15
(1,353)	1:59:A:ALA:HB1	1:60:A:LEU:H	10	0.15
(1,353)	1:59:A:ALA:HB2	1:60:A:LEU:H	10	0.15
(1,353)	1:59:A:ALA:HB3	1:60:A:LEU:H	10	0.15
(1,353)	1:59:A:ALA:HB1	1:60:A:LEU:H	11	0.15
(1,353)	1:59:A:ALA:HB2	1:60:A:LEU:H	11	0.15
(1,353)	1:59:A:ALA:HB3	1:60:A:LEU:H	11	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	3	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	3	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	3	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	11	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	11	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	11	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	20	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	20	0.15
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	20	0.15
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	3	0.15
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	3	0.15
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	3	0.15
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	15	0.15
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	15	0.15
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	15	0.15
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	2	0.15
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	7	0.15
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	9	0.15
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	10	0.15
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	12	0.14
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	12	0.14
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	10	0.14
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	10	0.14
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	10	0.14
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	10	0.14
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	10	0.14
(1,608)	1:74:A:VAL:HG11	1:112:A:HIS:HD2	13	0.14
(1,608)	1:74:A:VAL:HG12	1:112:A:HIS:HD2	13	0.14
(1,608)	1:74:A:VAL:HG13	1:112:A:HIS:HD2	13	0.14
(1,608)	1:74:A:VAL:HG21	1:112:A:HIS:HD2	13	0.14
(1,608)	1:74:A:VAL:HG22	1:112:A:HIS:HD2	13	0.14
(1,608)	1:74:A:VAL:HG23	1:112:A:HIS:HD2	13	0.14
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	8	0.14
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	8	0.14
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	8	0.14
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	8	0.14
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	8	0.14
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	8	0.14
(1,429)	1:87:A:TRP:HD1	1:97:A:LEU:HB2	20	0.14
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD21	4	0.14
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD22	4	0.14
(1,398)	1:73:A:PRO:HD3	1:82:A:LEU:HD23	4	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	7	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	7	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	7	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	8	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	8	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	8	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	14	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	14	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	14	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	16	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	16	0.14
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	16	0.14
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD11	9	0.14
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD12	9	0.14
(1,339)	1:103:A:ASP:HA	1:106:A:ILE:HD13	9	0.14
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	2	0.14
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	2	0.14
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	2	0.14
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	5	0.14
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	5	0.14
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	5	0.14
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	6	0.14
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	6	0.14
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	7	0.14
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	7	0.14
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	7	0.14
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	12	0.14
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	12	0.14
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	12	0.14
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	14	0.14
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	14	0.14
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	14	0.14
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	16	0.14
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	16	0.14
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	16	0.14
(1,22)	1:44:A:GLU:HA	1:45:A:ILE:H	9	0.14
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	3	0.14
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	15	0.14
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	17	0.14
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	20	0.14
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	11	0.13
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	11	0.13
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	18	0.13
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	18	0.13
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	14	0.13
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	14	0.13
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	14	0.13
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	14	0.13
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	14	0.13
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	14	0.13
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG11	1	0.13
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG12	1	0.13
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG13	1	0.13
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG21	1	0.13
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG22	1	0.13
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG23	1	0.13
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	3	0.13
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	3	0.13
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	3	0.13
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	3	0.13
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	3	0.13
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	3	0.13
(1,429)	1:87:A:TRP:HD1	1:97:A:LEU:HB2	18	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	14	0.13
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	8	0.13
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD21	18	0.13
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD22	18	0.13
(1,399)	1:79:A:ALA:HA	1:82:A:LEU:HD23	18	0.13
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	4	0.13
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	4	0.13
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	4	0.13
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	20	0.13
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	20	0.13
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	20	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	1	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	1	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	1	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	6	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	6	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	6	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	10	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	10	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	10	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	13	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	13	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	13	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	18	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	18	0.13
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	18	0.13
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	1	0.13
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	1	0.13
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	1	0.13
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	8	0.13
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	8	0.13
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	8	0.13
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	9	0.13
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	9	0.13
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	9	0.13
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	13	0.13
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	13	0.13
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	13	0.13
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	17	0.13
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	17	0.13
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	17	0.13
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	20	0.13
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	20	0.13
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	6	0.13
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	6	0.13
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	6	0.13
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	11	0.13
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	11	0.13
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	11	0.13
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	19	0.13
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	19	0.13
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	19	0.13
(1,45)	1:56:A:GLN:H	1:57:A:PRO:HB2	17	0.13
(1,45)	1:56:A:GLN:H	1:57:A:PRO:HB3	17	0.13
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	4	0.13
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	6	0.13
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	9	0.12
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	9	0.12
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	9	0.12
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	9	0.12
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	9	0.12
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	9	0.12
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	15	0.12
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	15	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	1	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	1	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	3	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	3	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	7	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	7	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	16	0.12
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	16	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	3	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	3	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	3	0.12
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	3	0.12
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	3	0.12
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	3	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	5	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	5	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	5	0.12
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	5	0.12
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	5	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	6	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	6	0.12
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	6	0.12
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	6	0.12
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	6	0.12
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	6	0.12
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG11	3	0.12
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG12	3	0.12
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG13	3	0.12
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG21	3	0.12
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG22	3	0.12
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG23	3	0.12
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD11	8	0.12
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD12	8	0.12
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD13	8	0.12
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD21	8	0.12
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD22	8	0.12
(1,525)	1:59:A:ALA:HB1	1:60:A:LEU:HD23	8	0.12
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD11	8	0.12
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD12	8	0.12
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD13	8	0.12
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD21	8	0.12
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD22	8	0.12
(1,525)	1:59:A:ALA:HB2	1:60:A:LEU:HD23	8	0.12
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD11	8	0.12
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD12	8	0.12
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD13	8	0.12
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD21	8	0.12
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD22	8	0.12
(1,525)	1:59:A:ALA:HB3	1:60:A:LEU:HD23	8	0.12
(1,440)	1:72:A:LEU:H	1:72:A:LEU:HG	9	0.12
(1,440)	1:72:A:LEU:H	1:72:A:LEU:HG	19	0.12
(1,429)	1:87:A:TRP:HD1	1:97:A:LEU:HB2	8	0.12
(1,429)	1:87:A:TRP:HD1	1:97:A:LEU:HB2	11	0.12
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	19	0.12
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	1	0.12
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	1	0.12
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	1	0.12
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	2	0.12
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	2	0.12
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	8	0.12
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	8	0.12
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	8	0.12
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	9	0.12
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	9	0.12
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	9	0.12
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	19	0.12
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	19	0.12
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	19	0.12
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	1	0.12
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	12	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	5	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	5	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	5	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	12	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	12	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	12	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	17	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	17	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	17	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	19	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	19	0.12
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	19	0.12
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	11	0.12
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	11	0.12
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	11	0.12
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	18	0.12
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	18	0.12
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	18	0.12
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	8	0.12
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	8	0.12
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	8	0.12
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	10	0.12
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	10	0.12
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	10	0.12
(1,51)	1:59:A:ALA:H	1:60:A:LEU:H	7	0.12
(1,22)	1:44:A:GLU:HA	1:45:A:ILE:H	2	0.12
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	5	0.12
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	2	0.11
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	2	0.11
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	2	0.11
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	2	0.11
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	2	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	1	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	1	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	2	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	2	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	4	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	4	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	7	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	7	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	9	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	9	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	10	0.11
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	10	0.11
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	8	0.11
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	8	0.11
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	10	0.11
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	10	0.11
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	15	0.11
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	15	0.11
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	17	0.11
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	17	0.11
(1,606)	1:74:A:VAL:HG11	1:75:A:THR:HA	8	0.11
(1,606)	1:74:A:VAL:HG12	1:75:A:THR:HA	8	0.11
(1,606)	1:74:A:VAL:HG13	1:75:A:THR:HA	8	0.11
(1,606)	1:74:A:VAL:HG21	1:75:A:THR:HA	8	0.11
(1,606)	1:74:A:VAL:HG22	1:75:A:THR:HA	8	0.11
(1,606)	1:74:A:VAL:HG23	1:75:A:THR:HA	8	0.11
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	1	0.11
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	1	0.11
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	1	0.11
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	1	0.11
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	1	0.11
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	1	0.11
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD21	15	0.11
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD22	15	0.11
(1,596)	1:73:A:PRO:HB2	1:82:A:LEU:HD23	15	0.11
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD21	15	0.11
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD22	15	0.11
(1,596)	1:73:A:PRO:HB3	1:82:A:LEU:HD23	15	0.11
(1,550)	1:63:A:LEU:HD11	1:74:A:VAL:H	8	0.11
(1,550)	1:63:A:LEU:HD12	1:74:A:VAL:H	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:63:A:LEU:HD13	1:74:A:VAL:H	8	0.11
(1,550)	1:63:A:LEU:HD21	1:74:A:VAL:H	8	0.11
(1,550)	1:63:A:LEU:HD22	1:74:A:VAL:H	8	0.11
(1,550)	1:63:A:LEU:HD23	1:74:A:VAL:H	8	0.11
(1,532)	1:60:A:LEU:HD11	1:61:A:ALA:H	2	0.11
(1,532)	1:60:A:LEU:HD12	1:61:A:ALA:H	2	0.11
(1,532)	1:60:A:LEU:HD13	1:61:A:ALA:H	2	0.11
(1,532)	1:60:A:LEU:HD21	1:61:A:ALA:H	2	0.11
(1,532)	1:60:A:LEU:HD22	1:61:A:ALA:H	2	0.11
(1,532)	1:60:A:LEU:HD23	1:61:A:ALA:H	2	0.11
(1,440)	1:72:A:LEU:H	1:72:A:LEU:HG	11	0.11
(1,429)	1:87:A:TRP:HD1	1:97:A:LEU:HB2	12	0.11
(1,429)	1:87:A:TRP:HD1	1:97:A:LEU:HB2	15	0.11
(1,429)	1:87:A:TRP:HD1	1:97:A:LEU:HB2	16	0.11
(1,427)	1:97:A:LEU:H	1:97:A:LEU:HG	2	0.11
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	6	0.11
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	10	0.11
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	13	0.11
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	16	0.11
(1,422)	1:79:A:ALA:H	1:113:A:LEU:HG	3	0.11
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	6	0.11
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	6	0.11
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	6	0.11
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	11	0.11
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	11	0.11
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	11	0.11
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	12	0.11
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	12	0.11
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	12	0.11
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	13	0.11
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	13	0.11
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	13	0.11
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	18	0.11
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	18	0.11
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	18	0.11
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	2	0.11
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	8	0.11
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	15	0.11
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	16	0.11
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	19	0.11
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	20	0.11
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD11	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD12	4	0.11
(1,340)	1:105:A:ALA:HA	1:106:A:ILE:HD13	4	0.11
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	4	0.11
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	4	0.11
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	4	0.11
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	10	0.11
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	10	0.11
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	10	0.11
(1,320)	1:81:A:VAL:HG21	1:82:A:LEU:H	19	0.11
(1,320)	1:81:A:VAL:HG22	1:82:A:LEU:H	19	0.11
(1,320)	1:81:A:VAL:HG23	1:82:A:LEU:H	19	0.11
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	3	0.11
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	3	0.11
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	3	0.11
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	9	0.11
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	9	0.11
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	9	0.11
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	12	0.11
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	12	0.11
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	12	0.11
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	13	0.11
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	13	0.11
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	13	0.11
(1,54)	1:61:A:ALA:H	1:61:A:ALA:HA	3	0.11
(1,54)	1:61:A:ALA:H	1:61:A:ALA:HA	14	0.11
(1,44)	1:55:A:ALA:HA	1:56:A:GLN:H	1	0.11
(1,23)	1:42:A:GLU:HA	1:45:A:ILE:H	8	0.11
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	12	0.11
(1,12)	1:43:A:ASP:HA	1:44:A:GLU:H	13	0.11
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	3	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	3	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	3	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	3	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	3	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	3	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD11	15	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD12	15	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD13	15	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD21	15	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD22	15	0.1
(1,698)	1:112:A:HIS:HD2	1:113:A:LEU:HD23	15	0.1
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	6	0.1
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	8	0.1
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	8	0.1
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG2	16	0.1
(1,687)	1:108:A:ARG:H	1:108:A:ARG:HG3	16	0.1
(1,685)	1:107:A:PHE:HD1	1:108:A:ARG:HB2	5	0.1
(1,685)	1:107:A:PHE:HD1	1:108:A:ARG:HB3	5	0.1
(1,685)	1:107:A:PHE:HD2	1:108:A:ARG:HB2	5	0.1
(1,685)	1:107:A:PHE:HD2	1:108:A:ARG:HB3	5	0.1
(1,666)	1:96:A:TRP:HD1	1:97:A:LEU:HD11	12	0.1
(1,666)	1:96:A:TRP:HD1	1:97:A:LEU:HD12	12	0.1
(1,666)	1:96:A:TRP:HD1	1:97:A:LEU:HD13	12	0.1
(1,666)	1:96:A:TRP:HD1	1:97:A:LEU:HD21	12	0.1
(1,666)	1:96:A:TRP:HD1	1:97:A:LEU:HD22	12	0.1
(1,666)	1:96:A:TRP:HD1	1:97:A:LEU:HD23	12	0.1
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	5	0.1
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	5	0.1
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG2	11	0.1
(1,651)	1:91:A:LYS:HA	1:94:A:GLU:HG3	11	0.1
(1,606)	1:74:A:VAL:HG11	1:75:A:THR:HA	13	0.1
(1,606)	1:74:A:VAL:HG12	1:75:A:THR:HA	13	0.1
(1,606)	1:74:A:VAL:HG13	1:75:A:THR:HA	13	0.1
(1,606)	1:74:A:VAL:HG21	1:75:A:THR:HA	13	0.1
(1,606)	1:74:A:VAL:HG22	1:75:A:THR:HA	13	0.1
(1,606)	1:74:A:VAL:HG23	1:75:A:THR:HA	13	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG11	6	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG12	6	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG13	6	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG21	6	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG22	6	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG23	6	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG11	14	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG12	14	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG13	14	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG21	14	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG22	14	0.1
(1,537)	1:62:A:ALA:H	1:74:A:VAL:HG23	14	0.1
(1,522)	1:54:A:GLU:HB2	1:55:A:ALA:H	12	0.1
(1,522)	1:54:A:GLU:HB3	1:55:A:ALA:H	12	0.1
(1,440)	1:72:A:LEU:H	1:72:A:LEU:HG	18	0.1
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	1	0.1
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	5	0.1
(1,423)	1:113:A:LEU:H	1:113:A:LEU:HG	14	0.1
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD21	7	0.1
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD22	7	0.1
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD23	7	0.1
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD21	16	0.1
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD22	16	0.1
(1,402)	1:82:A:LEU:H	1:82:A:LEU:HD23	16	0.1
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	5	0.1
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	5	0.1
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	5	0.1
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	7	0.1
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	7	0.1
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	7	0.1
(1,384)	1:83:A:ILE:HG21	1:99:A:LEU:HG	15	0.1
(1,384)	1:83:A:ILE:HG22	1:99:A:LEU:HG	15	0.1
(1,384)	1:83:A:ILE:HG23	1:99:A:LEU:HG	15	0.1
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	5	0.1
(1,367)	1:87:A:TRP:HZ2	1:99:A:LEU:HG	7	0.1
(1,353)	1:59:A:ALA:HB1	1:60:A:LEU:H	4	0.1
(1,353)	1:59:A:ALA:HB2	1:60:A:LEU:H	4	0.1
(1,353)	1:59:A:ALA:HB3	1:60:A:LEU:H	4	0.1
(1,353)	1:59:A:ALA:HB1	1:60:A:LEU:H	16	0.1
(1,353)	1:59:A:ALA:HB2	1:60:A:LEU:H	16	0.1
(1,353)	1:59:A:ALA:HB3	1:60:A:LEU:H	16	0.1
(1,273)	1:79:A:ALA:HB1	1:112:A:HIS:HE1	15	0.1
(1,273)	1:79:A:ALA:HB2	1:112:A:HIS:HE1	15	0.1
(1,273)	1:79:A:ALA:HB3	1:112:A:HIS:HE1	15	0.1
(1,248)	1:87:A:TRP:HE1	1:97:A:LEU:HB2	6	0.1
(1,166)	1:87:A:TRP:H	1:99:A:LEU:HD21	18	0.1
(1,166)	1:87:A:TRP:H	1:99:A:LEU:HD22	18	0.1
(1,166)	1:87:A:TRP:H	1:99:A:LEU:HD23	18	0.1
(1,127)	1:75:A:THR:HA	1:78:A:ASP:H	16	0.1
(1,68)	1:64:A:HIS:H	1:70:A:ALA:HA	17	0.1
(1,54)	1:61:A:ALA:H	1:61:A:ALA:HA	6	0.1
(1,45)	1:56:A:GLN:H	1:57:A:PRO:HB2	1	0.1
(1,45)	1:56:A:GLN:H	1:57:A:PRO:HB3	1	0.1

10 Dihedral-angle violation analysis

No dihedral-angle restraints found