



Full wwPDB NMR Structure Validation Report ⓘ

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PDB ID : 8Z5K / pdb_00008z5k
BMRB ID : 36661
Title : Solution structure of PA2072 CHASE4 monomer.
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Deposited on : 2024-04-18

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

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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

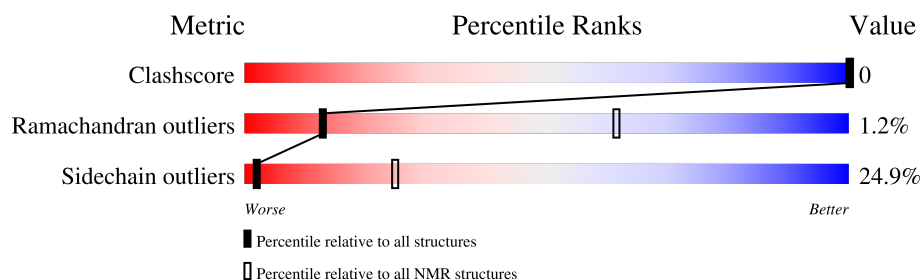
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 84%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	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	208	

2 Ensemble composition and analysis

This entry contains 10 models. Model 6 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:44-A:180, A:186-A:225, A:229-A:246 (195)	0.66	6

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

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

The models can be grouped into 2 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 5, 6, 8, 10
2	4, 7, 9

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 3139 atoms, of which 1541 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Bifunctional diguanylate cyclase/phosphodiesterase.

Mol	Chain	Residues	Atoms						Trace
1	A	208	Total	C	H	N	O	S	
			3139	999	1541	282	315	2	0

There are 2 discrepancies between the modelled and reference sequences:

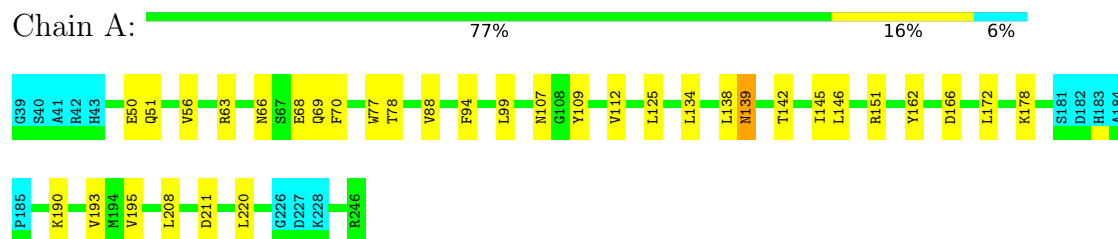
Chain	Residue	Modelled	Actual	Comment	Reference
A	39	GLY	-	expression tag	UNP Q9I243
A	40	SER	-	expression tag	UNP Q9I243

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase

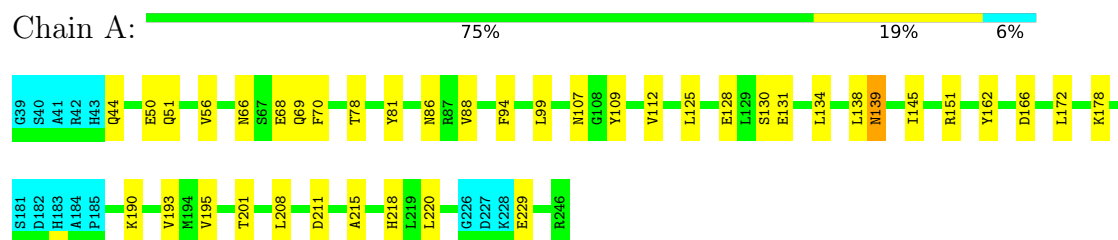


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

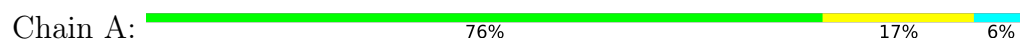
4.2.1 Score per residue for model 1

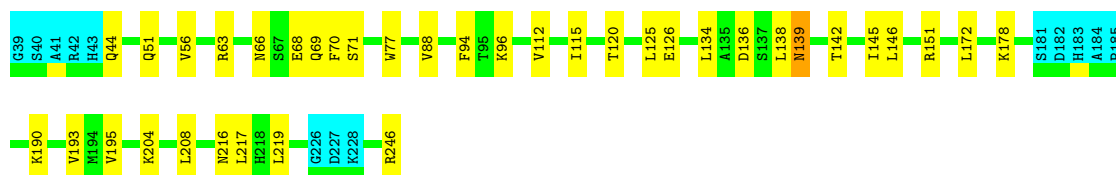
- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



4.2.2 Score per residue for model 2

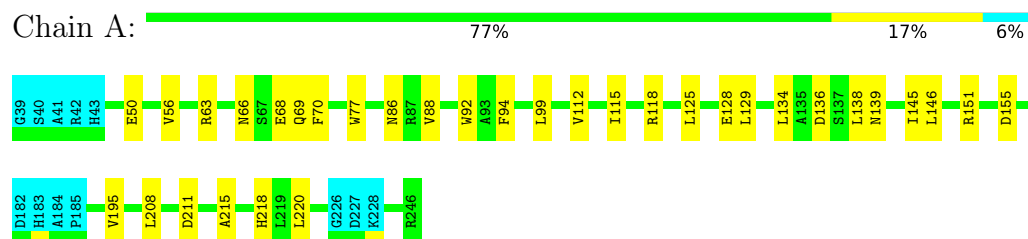
- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase





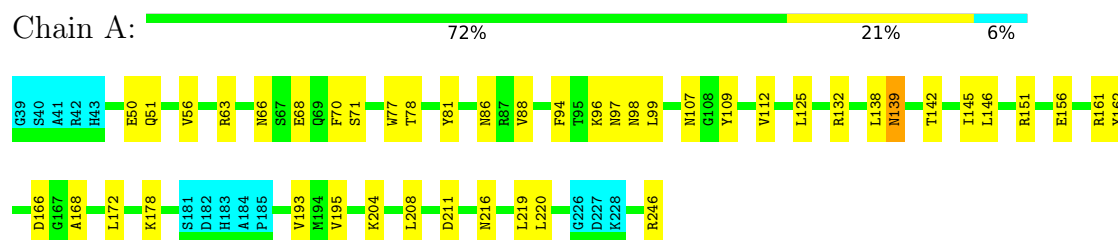
4.2.3 Score per residue for model 3

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



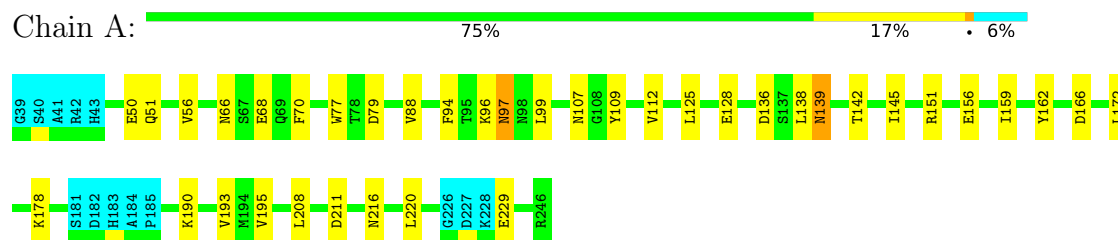
4.2.4 Score per residue for model 4

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



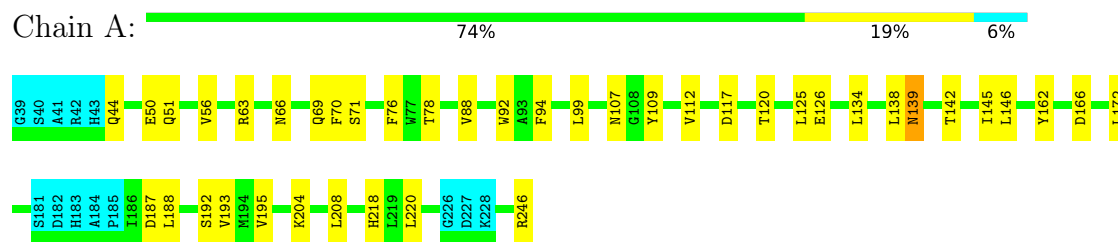
4.2.5 Score per residue for model 5

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



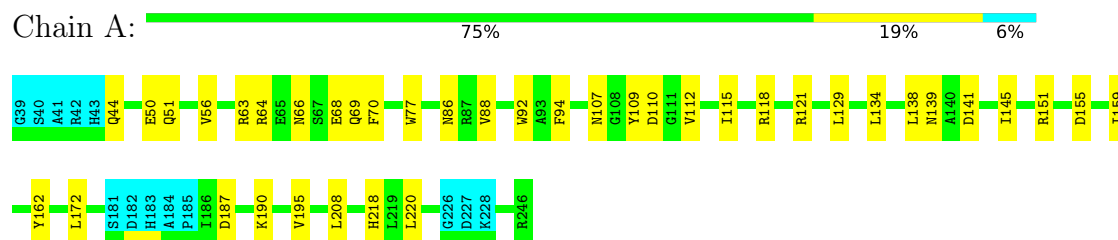
4.2.6 Score per residue for model 6 (medoid)

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



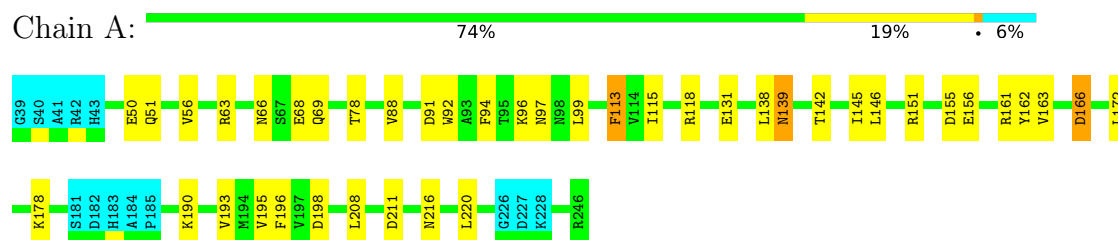
4.2.7 Score per residue for model 7

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



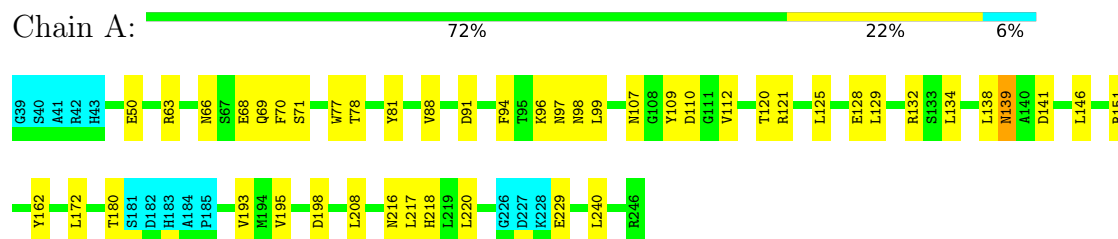
4.2.8 Score per residue for model 8

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



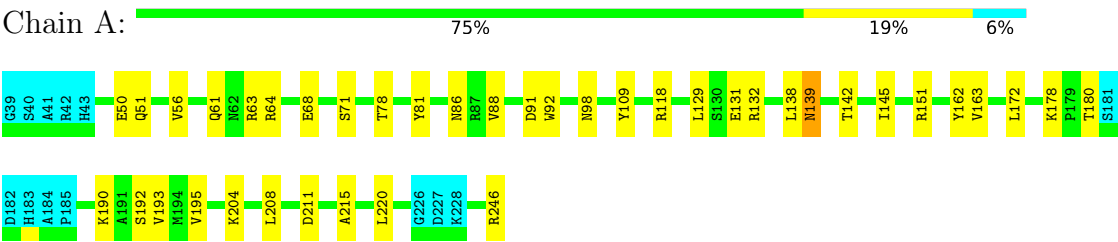
4.2.9 Score per residue for model 9

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



4.2.10 Score per residue for model 10

- Molecule 1: Bifunctional diguanylate cyclase/phosphodiesterase



5 Refinement protocol and experimental data overview

The models were refined using the following method: *distance geometry*.

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CYANA	structure calculation	
Amber	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	2245
Number of shifts mapped to atoms	2245
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	84%

6 Model quality [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	0.90±0.01	0±0/1533 (0.0± 0.0%)	1.32±0.02	1±1/2082 (0.0± 0.0%)
All	All	0.90	0/15330 (0.0%)	1.32	9/20820 (0.0%)

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	196	PHE	CA-CB-CG	5.95	119.75	113.80	8	1
1	A	113	PHE	CA-CB-CG	5.26	119.06	113.80	8	1
1	A	138	LEU	CA-C-N	5.20	131.48	121.54	2	2
1	A	138	LEU	C-N-CA	5.20	131.48	121.54	2	2
1	A	168	ALA	N-CA-C	5.14	112.84	108.22	4	1
1	A	86	ASN	CA-CB-CG	5.02	117.62	112.60	4	1
1	A	110	ASP	CA-CB-CG	5.01	117.61	112.60	9	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
All	All	15050	14610	14610	-

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 -.

There are no clashes.

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	194/208 (93%)	176±3 (90±1%)	16±3 (8±1%)	2±1 (1±1%)	13	61
All	All	1940/2080 (93%)	1755 (90%)	161 (8%)	24 (1%)	13	61

All 7 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	139	ASN	10
1	A	216	ASN	4
1	A	215	ALA	3
1	A	97	ASN	3
1	A	180	THR	2
1	A	88	VAL	1
1	A	166	ASP	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	154/163 (94%)	116±3 (75±2%)	38±3 (25±2%)	2	25
All	All	1540/1630 (94%)	1157 (75%)	383 (25%)	2	25

All 80 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	172	LEU	10
1	A	195	VAL	10
1	A	208	LEU	10
1	A	50	GLU	9
1	A	56	VAL	9
1	A	66	ASN	9
1	A	68	GLU	9
1	A	88	VAL	9
1	A	94	PHE	9
1	A	145	ILE	9
1	A	151	ARG	9
1	A	162	TYR	9
1	A	220	LEU	9
1	A	51	GLN	8
1	A	70	PHE	8
1	A	112	VAL	8
1	A	138	LEU	8
1	A	139	ASN	8
1	A	193	VAL	8
1	A	63	ARG	8
1	A	69	GLN	7
1	A	99	LEU	7
1	A	109	TYR	7
1	A	125	LEU	7
1	A	78	THR	6
1	A	107	ASN	6
1	A	134	LEU	6
1	A	178	LYS	6
1	A	190	LYS	6
1	A	211	ASP	6
1	A	77	TRP	6
1	A	142	THR	6
1	A	146	LEU	6
1	A	166	ASP	5
1	A	218	HIS	5
1	A	71	SER	5
1	A	96	LYS	5
1	A	92	TRP	5
1	A	44	GLN	4
1	A	81	TYR	4
1	A	86	ASN	4
1	A	128	GLU	4
1	A	115	ILE	4

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Mol	Chain	Res	Type	Models (Total)
1	A	204	LYS	4
1	A	246	ARG	4
1	A	118	ARG	4
1	A	129	LEU	4
1	A	131	GLU	3
1	A	229	GLU	3
1	A	120	THR	3
1	A	136	ASP	3
1	A	155	ASP	3
1	A	98	ASN	3
1	A	132	ARG	3
1	A	156	GLU	3
1	A	91	ASP	3
1	A	126	GLU	2
1	A	217	LEU	2
1	A	219	LEU	2
1	A	161	ARG	2
1	A	97	ASN	2
1	A	159	ILE	2
1	A	187	ASP	2
1	A	192	SER	2
1	A	64	ARG	2
1	A	121	ARG	2
1	A	141	ASP	2
1	A	163	VAL	2
1	A	198	ASP	2
1	A	130	SER	1
1	A	201	THR	1
1	A	79	ASP	1
1	A	76	PHE	1
1	A	117	ASP	1
1	A	188	LEU	1
1	A	110	ASP	1
1	A	113	PHE	1
1	A	216	ASN	1
1	A	240	LEU	1
1	A	61	GLN	1

6.3.3 RNA ⓘ

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

The completeness of assignment taking into account all chemical shift lists is 84% for the well-defined parts and 82% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chemical_shifts_1*

7.1.1 Bookkeeping

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

Total number of shifts	2245
Number of shifts mapped to atoms	2245
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	4

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	204	-0.18 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	189	0.01 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	198	0.36 ± 0.35	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 84%, i.e. 2166 atoms were assigned a chemical shift out of a possible 2583. 0 out of 33 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	786/981 (80%)	400/400 (100%)	195/390 (50%)	191/191 (100%)
Sidechain	1241/1394 (89%)	849/910 (93%)	375/427 (88%)	17/57 (30%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	139/208 (67%)	84/101 (83%)	52/101 (51%)	3/6 (50%)
Overall	2166/2583 (84%)	1333/1411 (94%)	622/918 (68%)	211/254 (83%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 82%, i.e. 2245 atoms were assigned a chemical shift out of a possible 2730. 0 out of 33 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	819/1046 (78%)	417/427 (98%)	204/416 (49%)	198/203 (98%)
Sidechain	1281/1462 (88%)	876/953 (92%)	388/448 (87%)	17/61 (28%)
Aromatic	145/222 (65%)	87/109 (80%)	55/105 (52%)	3/8 (38%)
Overall	2245/2730 (82%)	1380/1489 (93%)	647/969 (67%)	218/272 (80%)

7.1.4 Statistically unusual chemical shifts ⓘ

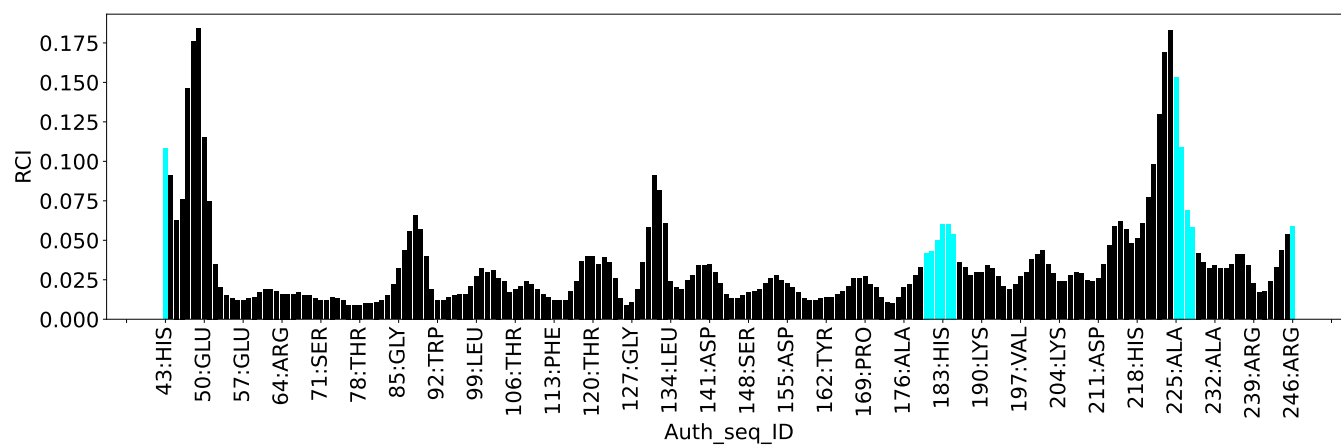
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	98	ASN	HB3	0.38	1.12 – 4.38	-7.3
1	A	126	GLU	HA	1.56	2.24 – 6.23	-6.7
1	A	83	TYR	HB3	0.73	0.93 – 4.76	-5.5
1	A	79	ASP	HB3	1.23	1.32 – 4.00	-5.3

7.1.5 Random Coil Index (RCI) plots ⓘ

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	5257
Intra-residue ($ i-j =0$)	1104
Sequential ($ i-j =1$)	1073
Medium range ($ i-j >1$ and $ i-j <5$)	1257
Long range ($ i-j \geq 5$)	1791
Inter-chain	0
Hydrogen bond restraints	32
Disulfide bond restraints	0
Total dihedral-angle restraints	274
Number of unmapped restraints	0
Number of restraints per residue	26.6
Number of long range restraints per residue ¹	8.7

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	217.5	0.2
0.2-0.5 (Medium)	232.1	0.5
>0.5 (Large)	95.1	2.23

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	58.0	9.95
10.0-20.0 (Medium)	27.8	19.97
>20.0 (Large)	17.5	53.35

9 Distance violation analysis ⓘ

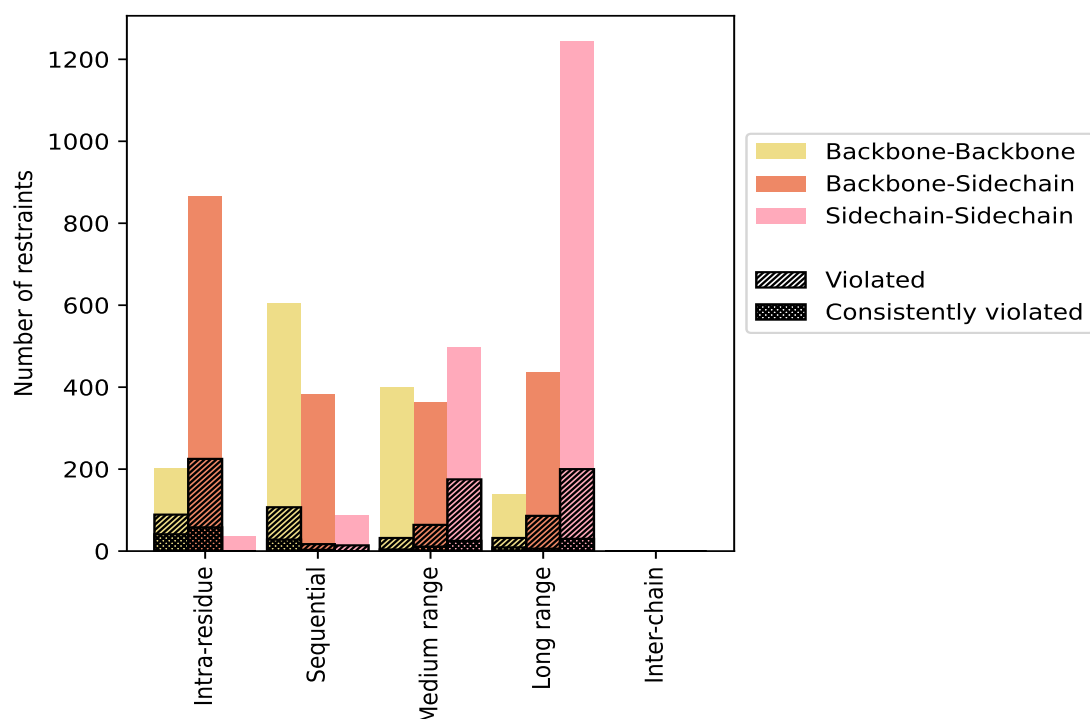
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue (i-j =0)	1104	21.0	314	28.4	6.0	99	9.0	1.9
Backbone-Backbone	202	3.8	89	44.1	1.7	41	20.3	0.8
Backbone-Sidechain	866	16.5	225	26.0	4.3	58	6.7	1.1
Sidechain-Sidechain	36	0.7	0	0.0	0.0	0	0.0	0.0
Sequential (i-j =1)	1073	20.4	138	12.9	2.6	31	2.9	0.6
Backbone-Backbone	604	11.5	107	17.7	2.0	28	4.6	0.5
Backbone-Sidechain	383	7.3	17	4.4	0.3	3	0.8	0.1
Sidechain-Sidechain	86	1.6	14	16.3	0.3	0	0.0	0.0
Medium range (i-j >1 & i-j <5)	1257	23.9	267	21.2	5.1	39	3.1	0.7
Backbone-Backbone	400	7.6	32	8.0	0.6	4	1.0	0.1
Backbone-Sidechain	359	6.8	60	16.7	1.1	10	2.8	0.2
Sidechain-Sidechain	498	9.5	175	35.1	3.3	25	5.0	0.5
Long range (i-j ≥5)	1791	34.1	313	17.5	6.0	45	2.5	0.9
Backbone-Backbone	139	2.6	32	23.0	0.6	9	6.5	0.2
Backbone-Sidechain	408	7.8	81	19.9	1.5	6	1.5	0.1
Sidechain-Sidechain	1244	23.7	200	16.1	3.8	30	2.4	0.6
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	32	0.6	9	28.1	0.2	1	3.1	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	5257	100.0	1041	19.8	19.8	215	4.1	4.1
Backbone-Backbone	1345	25.6	260	19.3	4.9	82	6.1	1.6
Backbone-Sidechain	2048	39.0	392	19.1	7.5	78	3.8	1.5
Sidechain-Sidechain	1864	35.5	389	20.9	7.4	55	3.0	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 disulfied bonds are counted in their appropriate category on the x-axis

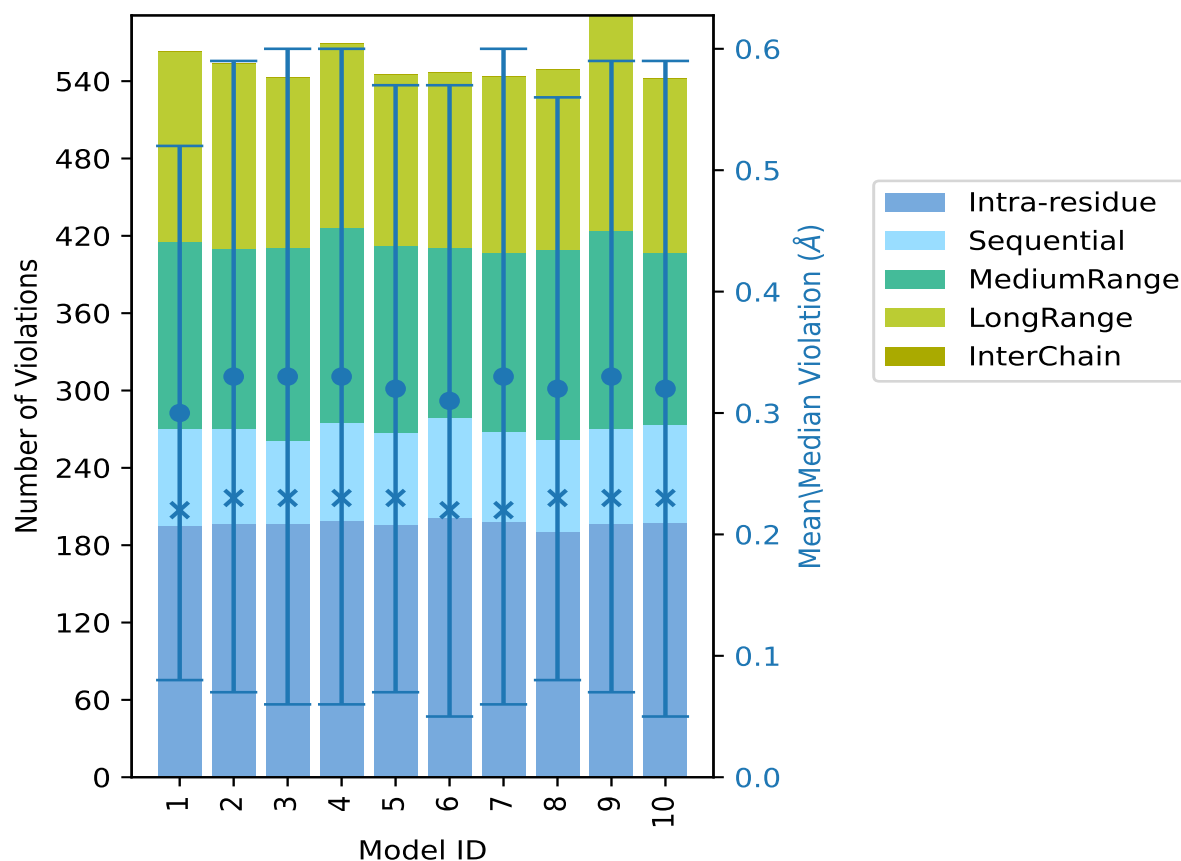
9.2 Distance violation statistics for each model [i](#)

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	195	75	145	148	0	563	0.3	1.52	0.22	0.22
2	197	73	140	144	0	554	0.33	1.33	0.26	0.23
3	197	64	150	132	0	543	0.33	1.71	0.27	0.23
4	199	76	151	143	0	569	0.33	2.23	0.27	0.23
5	196	71	145	133	0	545	0.32	1.66	0.25	0.23
6	201	78	132	136	0	547	0.31	1.79	0.26	0.22
7	198	70	139	137	0	544	0.33	1.46	0.27	0.22
8	190	72	147	140	0	549	0.32	1.47	0.24	0.23
9	197	73	154	167	0	591	0.33	1.76	0.26	0.23
10	197	76	134	135	0	542	0.32	1.7	0.27	0.23

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

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



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

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

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 4193(IR:790, SQ:935, MR:990, LR:1478, 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	%
51	28	49	85	0	213	1	10.0
28	20	36	46	0	130	2	20.0
18	12	20	31	0	81	3	30.0

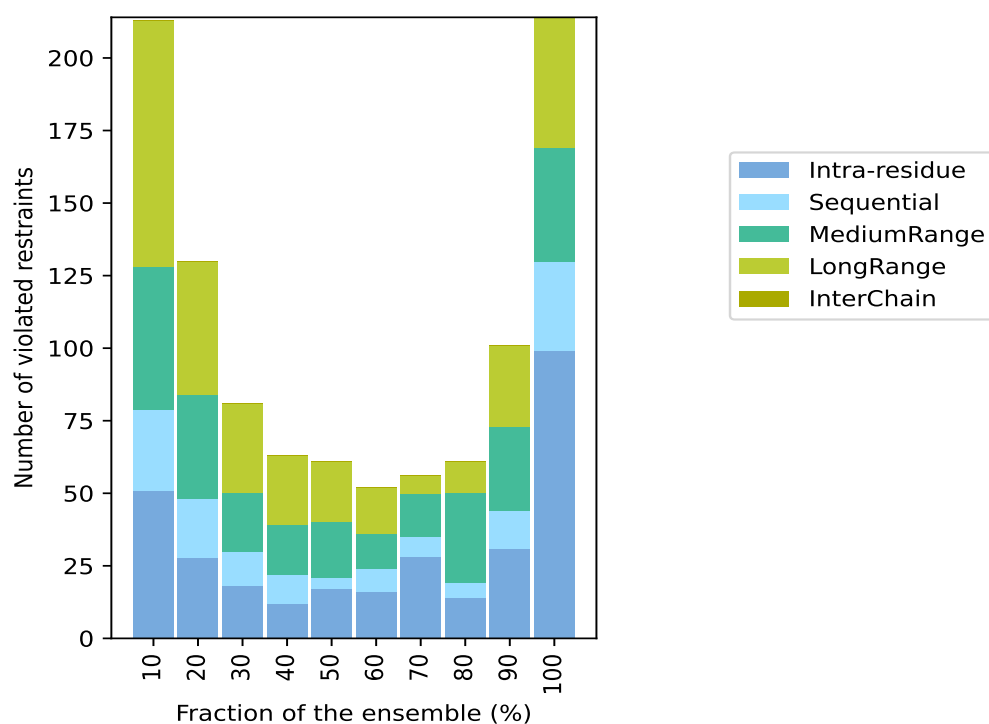
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
12	10	17	24	0	63	4	40.0
17	4	19	21	0	61	5	50.0
16	8	12	16	0	52	6	60.0
28	7	15	6	0	56	7	70.0
14	5	31	11	0	61	8	80.0
31	13	29	28	0	101	9	90.0
99	31	39	45	0	214	10	100.0

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

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

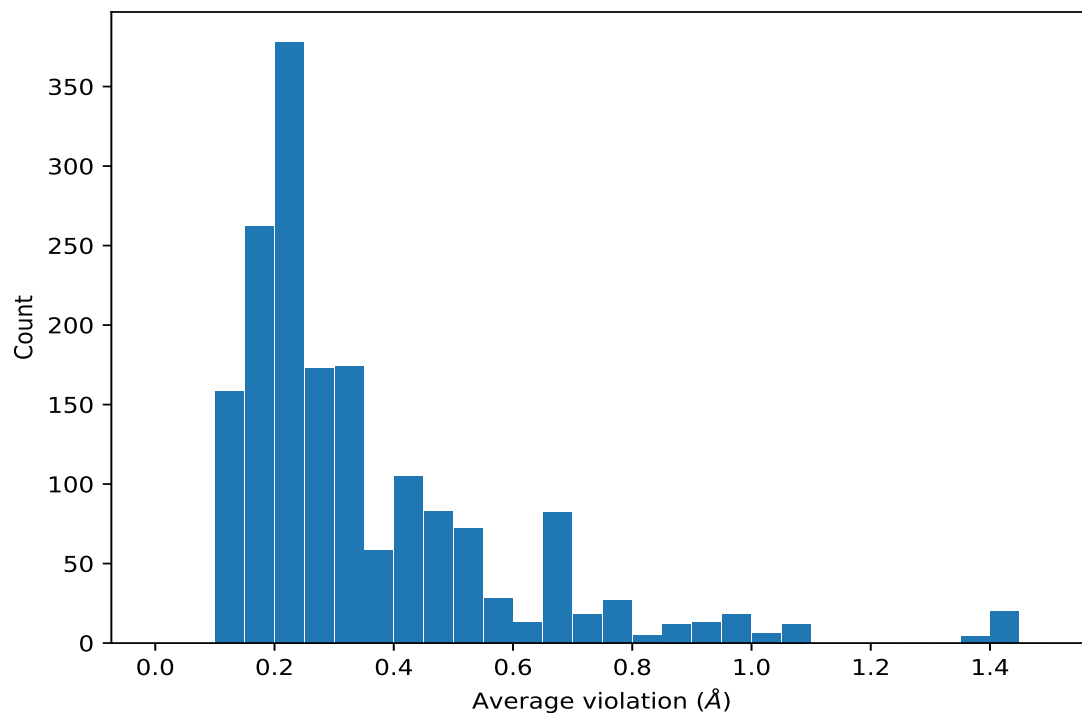


9.4 Most violated distance restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	10	1.42	0.23	1.43
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	10	1.42	0.23	1.43
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	10	1.42	0.23	1.43
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	10	1.42	0.23	1.43
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	10	1.42	0.23	1.43
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	10	1.42	0.23	1.43
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	10	1.42	0.23	1.43
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	10	1.42	0.23	1.43
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	10	1.42	0.23	1.43
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	10	1.42	0.23	1.43
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	10	1.42	0.23	1.43
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	10	1.42	0.23	1.43
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	10	1.42	0.23	1.43
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	10	1.42	0.23	1.43
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	10	1.42	0.23	1.43

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	10	1.42	0.23	1.43
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	10	1.42	0.23	1.43
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	10	1.42	0.23	1.43
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	10	1.05	0.14	1.01
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	10	1.05	0.14	1.01
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	10	1.05	0.14	1.01
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	10	1.05	0.14	1.01
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	10	1.05	0.14	1.01
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	10	1.05	0.14	1.01
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	10	1.04	0.14	1.02
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	10	1.04	0.14	1.02
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	10	1.04	0.14	1.02
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	10	1.04	0.14	1.02
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	10	1.04	0.14	1.02
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	10	1.04	0.14	1.02
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	10	0.99	0.17	1.04
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	10	0.99	0.17	1.04
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	10	0.99	0.17	1.04
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	10	0.99	0.17	1.04
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	10	0.95	0.41	0.91
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	10	0.95	0.41	0.91
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	10	0.95	0.41	0.91
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	10	0.95	0.41	0.91
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	10	0.95	0.41	0.91
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	10	0.95	0.41	0.91
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	10	0.95	0.41	0.91
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	10	0.95	0.41	0.91
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	10	0.95	0.41	0.91
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	10	0.95	0.41	0.91
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	10	0.95	0.41	0.91
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	10	0.95	0.41	0.91
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	10	0.89	0.23	0.88
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	10	0.89	0.23	0.88
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	10	0.89	0.23	0.88
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	10	0.89	0.23	0.88
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	10	0.88	0.13	0.89
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	10	0.88	0.13	0.89
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	10	0.87	0.21	0.9
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	10	0.87	0.21	0.9
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	10	0.8	0.1	0.84
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	10	0.78	0.41	0.78
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	10	0.78	0.41	0.78

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	10	0.78	0.11	0.74
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	10	0.78	0.11	0.74
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	10	0.78	0.11	0.74
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	10	0.76	0.3	0.89
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	10	0.76	0.3	0.89
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	10	0.76	0.3	0.89
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	10	0.76	0.3	0.89
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	10	0.76	0.3	0.89
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	10	0.76	0.3	0.89
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	10	0.75	0.09	0.74
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	10	0.75	0.09	0.74
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	10	0.75	0.09	0.74
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	10	0.75	0.07	0.76
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	10	0.75	0.07	0.76
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	10	0.75	0.07	0.76
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	10	0.75	0.07	0.76
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	10	0.75	0.07	0.76
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	10	0.75	0.07	0.76
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	10	0.7	0.23	0.68
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	10	0.7	0.23	0.68
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	10	0.69	0.15	0.7
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	10	0.69	0.15	0.7
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	10	0.69	0.15	0.7
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	10	0.69	0.15	0.7
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	10	0.66	0.15	0.68
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	10	0.66	0.15	0.68
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	10	0.66	0.15	0.68
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	10	0.66	0.15	0.68
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	10	0.66	0.15	0.68
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	10	0.66	0.15	0.68
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	10	0.66	0.15	0.68
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	10	0.66	0.15	0.68
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	10	0.66	0.15	0.68
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	10	0.66	0.15	0.68

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	10	0.66	0.12	0.68
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	10	0.66	0.12	0.68
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	10	0.66	0.12	0.68
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	10	0.66	0.12	0.68
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	10	0.66	0.12	0.7
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	10	0.65	0.16	0.66
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	10	0.6	0.04	0.59
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	10	0.6	0.04	0.59
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	10	0.6	0.04	0.59
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	10	0.59	0.16	0.57
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	10	0.59	0.16	0.57
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	10	0.59	0.16	0.57
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	10	0.59	0.17	0.55
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	10	0.59	0.17	0.55
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	10	0.59	0.17	0.55
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	10	0.59	0.17	0.55
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	10	0.59	0.17	0.55
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	10	0.59	0.17	0.55
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	10	0.59	0.14	0.58
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	10	0.59	0.14	0.58
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	10	0.59	0.14	0.58
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	10	0.59	0.14	0.58
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	10	0.54	0.15	0.54
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	10	0.54	0.15	0.54
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	10	0.54	0.15	0.54
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	10	0.52	0.1	0.54
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	10	0.52	0.1	0.54
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	10	0.52	0.1	0.54
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	10	0.51	0.05	0.5
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	10	0.51	0.05	0.5
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	10	0.49	0.2	0.54
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	10	0.49	0.2	0.54
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	10	0.49	0.2	0.54
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	10	0.49	0.2	0.54
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	10	0.49	0.2	0.54
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	10	0.49	0.2	0.54
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	10	0.49	0.2	0.54
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	10	0.49	0.2	0.54
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	10	0.49	0.2	0.54
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	10	0.49	0.11	0.46
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	10	0.46	0.15	0.52
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	10	0.46	0.15	0.52

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	10	0.46	0.15	0.52
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	10	0.46	0.15	0.52
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	10	0.46	0.15	0.52
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	10	0.46	0.15	0.52
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	10	0.46	0.12	0.46
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	10	0.46	0.12	0.46
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	10	0.46	0.12	0.46
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	10	0.46	0.12	0.46
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	10	0.46	0.12	0.46
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	10	0.46	0.12	0.46
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	10	0.46	0.13	0.41
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	10	0.46	0.04	0.47
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	10	0.44	0.2	0.55
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	10	0.44	0.2	0.55
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	10	0.43	0.09	0.42
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	10	0.43	0.09	0.42
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	10	0.43	0.05	0.42
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	10	0.43	0.05	0.42
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	10	0.42	0.18	0.38
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	10	0.42	0.18	0.38
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	10	0.42	0.09	0.41
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	10	0.42	0.09	0.41
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	10	0.42	0.04	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	10	0.42	0.04	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	10	0.42	0.04	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	10	0.42	0.04	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	10	0.42	0.04	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	10	0.42	0.04	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	10	0.42	0.04	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	10	0.42	0.04	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	10	0.42	0.04	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	10	0.42	0.04	0.42
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	10	0.42	0.03	0.41
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	10	0.42	0.03	0.41

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	10	0.39	0.14	0.36
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	10	0.39	0.14	0.36
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	10	0.39	0.14	0.36
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	10	0.39	0.14	0.36
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	10	0.39	0.14	0.36
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	10	0.39	0.14	0.36
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	10	0.38	0.19	0.4
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	10	0.38	0.19	0.4
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	10	0.38	0.19	0.4
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	10	0.38	0.19	0.4
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	10	0.38	0.19	0.4
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	10	0.38	0.19	0.4
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	10	0.38	0.19	0.4
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	10	0.38	0.19	0.4
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	10	0.38	0.19	0.4
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	10	0.34	0.19	0.28
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	10	0.34	0.19	0.28
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	10	0.34	0.19	0.28
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	10	0.32	0.09	0.34
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	10	0.32	0.1	0.29
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	10	0.32	0.1	0.29
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	10	0.32	0.1	0.29
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	10	0.29	0.11	0.26
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	10	0.29	0.11	0.26
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	10	0.29	0.11	0.26
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	10	0.28	0.02	0.28
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	10	0.28	0.02	0.28
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	10	0.28	0.02	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	10	0.28	0.02	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	10	0.28	0.02	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	10	0.28	0.02	0.28
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	10	0.28	0.02	0.28
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	10	0.28	0.02	0.28
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	10	0.28	0.02	0.28
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	10	0.28	0.02	0.28
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	10	0.28	0.02	0.28
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	10	0.28	0.02	0.28
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	10	0.27	0.06	0.27
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	10	0.27	0.06	0.27
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	10	0.27	0.04	0.26
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	10	0.27	0.04	0.26
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	10	0.27	0.04	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	10	0.27	0.11	0.24
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	10	0.27	0.09	0.24
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	10	0.27	0.09	0.24
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	10	0.26	0.13	0.23
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	10	0.26	0.13	0.23
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	10	0.26	0.13	0.23
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	10	0.25	0.1	0.24
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	10	0.25	0.05	0.24
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	10	0.25	0.0	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	10	0.25	0.0	0.25
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	10	0.25	0.01	0.25
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	10	0.25	0.02	0.26
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	10	0.24	0.04	0.23
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	10	0.24	0.0	0.24
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	10	0.24	0.0	0.24
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	10	0.24	0.0	0.24
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	10	0.24	0.0	0.24
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	10	0.24	0.05	0.23
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	10	0.24	0.05	0.23
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	10	0.24	0.01	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	10	0.24	0.01	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	10	0.24	0.0	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	10	0.24	0.0	0.24
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	10	0.24	0.07	0.22
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	10	0.24	0.07	0.22
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	10	0.24	0.01	0.24
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	10	0.24	0.01	0.24
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	10	0.24	0.0	0.24
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	10	0.24	0.0	0.24
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	10	0.24	0.0	0.24
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	10	0.24	0.0	0.24
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	10	0.24	0.0	0.24
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	10	0.23	0.01	0.24
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	10	0.23	0.01	0.24
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	10	0.23	0.0	0.23
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	10	0.23	0.0	0.23
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	10	0.23	0.02	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	10	0.23	0.02	0.24
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	10	0.23	0.01	0.24
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	10	0.23	0.01	0.23
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	10	0.23	0.01	0.23
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	10	0.23	0.01	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	10	0.23	0.01	0.23
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	10	0.23	0.06	0.24
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	10	0.23	0.06	0.24
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	10	0.23	0.06	0.24
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	10	0.23	0.0	0.23
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	10	0.22	0.01	0.22
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	10	0.22	0.01	0.22
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	10	0.22	0.01	0.22
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	10	0.22	0.0	0.22
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	10	0.22	0.0	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	10	0.22	0.0	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	10	0.22	0.0	0.22
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	10	0.22	0.01	0.22
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	10	0.22	0.01	0.22
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	10	0.22	0.01	0.22
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	10	0.21	0.01	0.21
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	10	0.21	0.01	0.21
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	10	0.21	0.01	0.21
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	10	0.21	0.02	0.22
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	10	0.21	0.01	0.21
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	10	0.21	0.02	0.2
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	10	0.21	0.02	0.2
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	10	0.21	0.04	0.19
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	10	0.21	0.01	0.2
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	10	0.21	0.0	0.21
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	10	0.2	0.01	0.2
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	10	0.2	0.08	0.19
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	10	0.2	0.04	0.21
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	10	0.2	0.04	0.22
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	10	0.2	0.01	0.2
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	10	0.2	0.04	0.19
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	10	0.2	0.04	0.19
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	10	0.2	0.01	0.2
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	10	0.2	0.01	0.2
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	10	0.2	0.07	0.19
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	10	0.2	0.01	0.2
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	10	0.2	0.02	0.2
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	10	0.2	0.01	0.19
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	10	0.19	0.06	0.18
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	10	0.19	0.0	0.19
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	10	0.19	0.01	0.19
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	10	0.19	0.02	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	10	0.19	0.01	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	10	0.19	0.01	0.19
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	10	0.18	0.01	0.18
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	10	0.18	0.09	0.16
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	10	0.18	0.02	0.18
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	10	0.18	0.02	0.18
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	10	0.18	0.01	0.18
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	10	0.18	0.01	0.18
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	10	0.18	0.03	0.19
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	10	0.18	0.01	0.18
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	10	0.18	0.01	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	10	0.18	0.0	0.18
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	10	0.18	0.03	0.19
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	10	0.18	0.01	0.18
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	10	0.18	0.02	0.18
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	10	0.18	0.05	0.16
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	10	0.18	0.05	0.16
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	10	0.18	0.03	0.18
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	10	0.18	0.03	0.18
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	10	0.18	0.0	0.18
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	10	0.17	0.01	0.17
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	10	0.17	0.01	0.17
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	10	0.17	0.02	0.17
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	10	0.17	0.01	0.17
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	10	0.17	0.01	0.16
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	10	0.17	0.01	0.17
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	10	0.16	0.02	0.16
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	10	0.16	0.03	0.18
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	10	0.16	0.01	0.17
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	10	0.16	0.04	0.18
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	10	0.16	0.02	0.16
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	10	0.16	0.02	0.17
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	10	0.16	0.01	0.16
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	10	0.16	0.01	0.16
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	10	0.16	0.01	0.16
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	10	0.16	0.03	0.16
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	10	0.16	0.02	0.16
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	10	0.15	0.0	0.15
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	10	0.15	0.02	0.16
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	10	0.15	0.01	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	10	0.15	0.01	0.15
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	10	0.15	0.01	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	10	0.15	0.02	0.15
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	10	0.15	0.02	0.15
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	10	0.15	0.02	0.15
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	10	0.15	0.01	0.15
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	10	0.14	0.02	0.14
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	10	0.14	0.02	0.14
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	10	0.14	0.02	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	10	0.14	0.01	0.14
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	10	0.14	0.02	0.15
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	10	0.14	0.02	0.15
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	10	0.14	0.02	0.14
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	10	0.14	0.01	0.14
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	10	0.14	0.02	0.14
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	10	0.13	0.02	0.12
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	10	0.13	0.02	0.12
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	10	0.13	0.03	0.12
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	10	0.12	0.01	0.12
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	10	0.12	0.01	0.12
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	10	0.11	0.01	0.11
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	9	1.43	0.12	1.38
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	9	1.43	0.12	1.38
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	9	1.38	0.26	1.25
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	9	1.38	0.26	1.25
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	9	1.38	0.26	1.25
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	9	1.38	0.26	1.25
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	9	0.8	0.11	0.78
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	9	0.8	0.11	0.78
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	9	0.8	0.11	0.78
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	9	0.72	0.68	0.32
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	9	0.71	0.29	0.73
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	9	0.71	0.29	0.73
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	9	0.71	0.29	0.73
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	9	0.71	0.29	0.73
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	9	0.71	0.29	0.73
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	9	0.71	0.29	0.73
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	9	0.71	0.29	0.73
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	9	0.71	0.29	0.73
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	9	0.71	0.29	0.73
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	9	0.7	0.46	0.49
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	9	0.7	0.46	0.49
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	9	0.7	0.46	0.49
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	9	0.7	0.46	0.49

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	9	0.68	0.18	0.65
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	9	0.68	0.18	0.65
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	9	0.68	0.18	0.65
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	9	0.68	0.18	0.65
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	9	0.65	0.19	0.72
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	9	0.65	0.19	0.72
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	9	0.65	0.19	0.72
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	9	0.65	0.19	0.72
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	9	0.65	0.19	0.72
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	9	0.65	0.19	0.72
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	9	0.65	0.19	0.72
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	9	0.65	0.19	0.72
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	9	0.65	0.19	0.72
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	9	0.65	0.19	0.72
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	9	0.65	0.24	0.62
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	9	0.65	0.24	0.62
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	9	0.65	0.24	0.62
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	9	0.65	0.24	0.62
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	9	0.65	0.24	0.62
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	9	0.65	0.24	0.62
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	9	0.65	0.24	0.62
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	9	0.65	0.24	0.62
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	9	0.65	0.24	0.62
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	9	0.65	0.24	0.62
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	9	0.65	0.24	0.62
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	9	0.65	0.24	0.62
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	9	0.61	0.13	0.65
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	9	0.61	0.13	0.65
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	9	0.59	0.25	0.5
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	9	0.59	0.25	0.5
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	9	0.59	0.25	0.5
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	9	0.56	0.09	0.56
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	9	0.51	0.02	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	9	0.51	0.02	0.5

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	9	0.51	0.02	0.5
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	9	0.51	0.02	0.5
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	9	0.51	0.02	0.5
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	9	0.51	0.02	0.5
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	9	0.51	0.06	0.49
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	9	0.51	0.06	0.49
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	9	0.51	0.06	0.49
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	9	0.51	0.19	0.43
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	9	0.51	0.19	0.43
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	9	0.51	0.19	0.43
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	9	0.51	0.19	0.43
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	9	0.51	0.19	0.43
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	9	0.51	0.19	0.43
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	9	0.45	0.15	0.41
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	9	0.45	0.15	0.41
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	9	0.45	0.15	0.4
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	9	0.45	0.15	0.4
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	9	0.45	0.15	0.4
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	9	0.45	0.15	0.4
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	9	0.44	0.12	0.46
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	9	0.44	0.12	0.46
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	9	0.44	0.12	0.46
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	9	0.44	0.12	0.46
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	9	0.44	0.12	0.46
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	9	0.44	0.12	0.46
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	9	0.44	0.13	0.43
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	9	0.44	0.13	0.43
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	9	0.43	0.23	0.38
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	9	0.43	0.23	0.38
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	9	0.43	0.23	0.38
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	9	0.43	0.19	0.37
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	9	0.43	0.19	0.37
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	9	0.43	0.19	0.37
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	9	0.43	0.19	0.37
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	9	0.43	0.19	0.37
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	9	0.43	0.19	0.37
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	9	0.41	0.22	0.31
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	9	0.41	0.22	0.31
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	9	0.41	0.22	0.31
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	9	0.41	0.22	0.31
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	9	0.41	0.22	0.31
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	9	0.41	0.22	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	9	0.39	0.17	0.44
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	9	0.39	0.17	0.44
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	9	0.39	0.17	0.44
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	9	0.37	0.11	0.35
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	9	0.37	0.11	0.35
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	9	0.37	0.11	0.35
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	9	0.37	0.17	0.37
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	9	0.33	0.14	0.27
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	9	0.33	0.14	0.27
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	9	0.33	0.14	0.27
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	9	0.33	0.14	0.27
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	9	0.33	0.14	0.27
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	9	0.33	0.14	0.27
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	9	0.33	0.14	0.27
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	9	0.33	0.14	0.27
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	9	0.33	0.14	0.27
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	9	0.33	0.14	0.27
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	9	0.33	0.14	0.27
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	9	0.33	0.14	0.27
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	9	0.33	0.12	0.31
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	9	0.33	0.12	0.31
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	9	0.33	0.12	0.31
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	9	0.33	0.12	0.31
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	9	0.33	0.12	0.31
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	9	0.33	0.12	0.31
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	9	0.32	0.14	0.25
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	9	0.32	0.14	0.25
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	9	0.32	0.14	0.25
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	9	0.31	0.1	0.3
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	9	0.29	0.16	0.19
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	9	0.29	0.16	0.19
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	9	0.29	0.16	0.19
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	9	0.27	0.08	0.26
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	9	0.27	0.06	0.28
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	9	0.27	0.06	0.28
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	9	0.27	0.06	0.28
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	9	0.27	0.06	0.28
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	9	0.27	0.06	0.28
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	9	0.27	0.06	0.28
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	9	0.26	0.08	0.28
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	9	0.26	0.01	0.26
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	9	0.24	0.09	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	9	0.24	0.0	0.24
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	9	0.24	0.0	0.24
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	9	0.24	0.09	0.23
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	9	0.24	0.0	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	9	0.24	0.0	0.24
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	9	0.23	0.0	0.23
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	9	0.23	0.0	0.23
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	9	0.23	0.08	0.22
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	9	0.23	0.08	0.22
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	9	0.23	0.08	0.22
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	9	0.23	0.08	0.22
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	9	0.23	0.08	0.22
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	9	0.23	0.08	0.22
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	9	0.23	0.08	0.22
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	9	0.23	0.08	0.22
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	9	0.23	0.08	0.22
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	9	0.23	0.01	0.23
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	9	0.23	0.01	0.23
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	9	0.23	0.05	0.22
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	9	0.23	0.05	0.22
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	9	0.23	0.05	0.22
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	9	0.23	0.05	0.22
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	9	0.23	0.05	0.22
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	9	0.23	0.05	0.22
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	9	0.22	0.05	0.22
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	9	0.22	0.05	0.22
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	9	0.22	0.02	0.23
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	9	0.21	0.03	0.22
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	9	0.21	0.03	0.22
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	9	0.21	0.02	0.21
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	9	0.21	0.02	0.21
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	9	0.21	0.04	0.23
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	9	0.21	0.04	0.23
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	9	0.21	0.08	0.19
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	9	0.21	0.08	0.19
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	9	0.21	0.08	0.19
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	9	0.21	0.08	0.19
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	9	0.21	0.08	0.19
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	9	0.21	0.08	0.19
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	9	0.2	0.05	0.21
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	9	0.2	0.06	0.2
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	9	0.2	0.04	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	9	0.2	0.04	0.19
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	9	0.19	0.06	0.21
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	9	0.19	0.03	0.19
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	9	0.19	0.03	0.19
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	9	0.19	0.03	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	9	0.19	0.03	0.19
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	9	0.18	0.01	0.18
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	9	0.18	0.03	0.19
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	9	0.18	0.07	0.16
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	9	0.18	0.07	0.16
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	9	0.18	0.07	0.16
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	9	0.18	0.07	0.16
(1,757)	1:72:A:THR:H	1:71:A:SER:H	9	0.18	0.04	0.18
(1,758)	1:71:A:SER:H	1:72:A:THR:H	9	0.18	0.04	0.18
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	9	0.18	0.02	0.19
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	9	0.17	0.02	0.18
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	9	0.16	0.04	0.16
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	9	0.16	0.04	0.16
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	9	0.16	0.04	0.16
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	9	0.16	0.01	0.16
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	9	0.16	0.03	0.16
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	9	0.15	0.01	0.15
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	9	0.15	0.02	0.15
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	9	0.15	0.03	0.15
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	9	0.14	0.04	0.13
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	9	0.14	0.01	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	9	0.13	0.01	0.14
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	8	0.76	0.25	0.76
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	8	0.69	0.12	0.66
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	8	0.61	0.45	0.42
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	8	0.61	0.45	0.42
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	8	0.61	0.1	0.57
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	8	0.61	0.1	0.57
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	8	0.61	0.1	0.57
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	8	0.61	0.1	0.57
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	8	0.58	0.22	0.54
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	8	0.58	0.22	0.54
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	8	0.52	0.2	0.59
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	8	0.46	0.29	0.36
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	8	0.46	0.29	0.36
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	8	0.43	0.17	0.45
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	8	0.43	0.17	0.45
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	8	0.4	0.15	0.43
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	8	0.4	0.15	0.43
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	8	0.4	0.15	0.43
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	8	0.4	0.15	0.43
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	8	0.4	0.06	0.39
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	8	0.39	0.1	0.38
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	8	0.39	0.1	0.38
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	8	0.39	0.1	0.38
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	8	0.39	0.1	0.38
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	8	0.39	0.1	0.38
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	8	0.39	0.1	0.38
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	8	0.38	0.19	0.3
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	8	0.34	0.12	0.33
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	8	0.34	0.12	0.33
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	8	0.34	0.12	0.33
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	8	0.34	0.12	0.33
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	8	0.34	0.12	0.33
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	8	0.34	0.12	0.33
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	8	0.33	0.2	0.28
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	8	0.33	0.2	0.28
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	8	0.32	0.13	0.29
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	8	0.32	0.13	0.31
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	8	0.32	0.13	0.31
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	8	0.32	0.13	0.31
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	8	0.32	0.13	0.31
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	8	0.32	0.13	0.31

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	8	0.32	0.13	0.31
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	8	0.32	0.15	0.29
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	8	0.32	0.15	0.29
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	8	0.32	0.15	0.29
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	8	0.32	0.15	0.29
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	8	0.32	0.15	0.29
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	8	0.32	0.15	0.29
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	8	0.32	0.15	0.29
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	8	0.32	0.15	0.29
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	8	0.32	0.15	0.29
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	8	0.32	0.15	0.29
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	8	0.31	0.17	0.26
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	8	0.31	0.17	0.26
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	8	0.31	0.17	0.26
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	8	0.28	0.08	0.26
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	8	0.28	0.08	0.26
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	8	0.27	0.07	0.26
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	8	0.25	0.0	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	8	0.25	0.0	0.25
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	8	0.24	0.11	0.26
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	8	0.24	0.11	0.26
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	8	0.24	0.11	0.26
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	8	0.24	0.1	0.2
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	8	0.24	0.1	0.2
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	8	0.24	0.11	0.22
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	8	0.24	0.11	0.22
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	8	0.24	0.11	0.22
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	8	0.24	0.08	0.23
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	8	0.24	0.08	0.23
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	8	0.24	0.08	0.23
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	8	0.24	0.08	0.23
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	8	0.24	0.08	0.23
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	8	0.24	0.08	0.23
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	8	0.24	0.08	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	8	0.24	0.08	0.23
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	8	0.24	0.08	0.23
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	8	0.24	0.08	0.23
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	8	0.24	0.08	0.23
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	8	0.24	0.08	0.23
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	8	0.24	0.12	0.21
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	8	0.24	0.12	0.21
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	8	0.24	0.12	0.21
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	8	0.23	0.01	0.24
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	8	0.23	0.05	0.24
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	8	0.23	0.05	0.24
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	8	0.23	0.05	0.24
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	8	0.23	0.04	0.22
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	8	0.23	0.08	0.19
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	8	0.23	0.08	0.19
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	8	0.23	0.08	0.19
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	8	0.22	0.09	0.2
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	8	0.21	0.01	0.22
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	8	0.2	0.09	0.18
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	8	0.2	0.09	0.18
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	8	0.2	0.08	0.18
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	8	0.2	0.04	0.22
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	8	0.19	0.03	0.2
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	8	0.18	0.03	0.2
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	8	0.18	0.03	0.19
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	8	0.18	0.03	0.19
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	8	0.17	0.02	0.18
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	8	0.17	0.02	0.17
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	8	0.15	0.03	0.15
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	8	0.15	0.03	0.16
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	8	0.15	0.03	0.14
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	8	0.13	0.02	0.13
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	8	0.12	0.01	0.12
(1,706)	1:69:A:GLN:HE21	1:69:A:GLN:H	7	0.81	0.26	0.88
(1,1063)	1:87:A:ARG:HA	1:89:A:ASP:H	7	0.54	0.22	0.65
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD11	7	0.51	0.14	0.51
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD12	7	0.51	0.14	0.51
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD13	7	0.51	0.14	0.51
(1,2209)	1:145:A:ILE:HD11	1:142:A:THR:HB	7	0.51	0.14	0.51
(1,2209)	1:145:A:ILE:HD12	1:142:A:THR:HB	7	0.51	0.14	0.51
(1,2209)	1:145:A:ILE:HD13	1:142:A:THR:HB	7	0.51	0.14	0.51
(1,1645)	1:88:A:VAL:HG21	1:122:A:TYR:HB3	7	0.48	0.14	0.4

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1645)	1:88:A:VAL:HG22	1:122:A:TYR:HB3	7	0.48	0.14	0.4
(1,1645)	1:88:A:VAL:HG23	1:122:A:TYR:HB3	7	0.48	0.14	0.4
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG21	7	0.48	0.14	0.4
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG22	7	0.48	0.14	0.4
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG23	7	0.48	0.14	0.4
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD11	7	0.45	0.22	0.41
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD12	7	0.45	0.22	0.41
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD13	7	0.45	0.22	0.41
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD11	7	0.45	0.22	0.41
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD12	7	0.45	0.22	0.41
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD13	7	0.45	0.22	0.41
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD11	7	0.45	0.22	0.41
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD12	7	0.45	0.22	0.41
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD13	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG11	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG12	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG13	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG11	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG12	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG13	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG11	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG12	7	0.45	0.22	0.41
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG13	7	0.45	0.22	0.41
(1,2879)	1:163:A:VAL:HG11	1:171:A:ILE:H	7	0.37	0.11	0.34
(1,2879)	1:163:A:VAL:HG12	1:171:A:ILE:H	7	0.37	0.11	0.34
(1,2879)	1:163:A:VAL:HG13	1:171:A:ILE:H	7	0.37	0.11	0.34
(1,1459)	1:109:A:TYR:HD1	1:108:A:GLY:H	7	0.37	0.17	0.32
(1,1459)	1:109:A:TYR:HD2	1:108:A:GLY:H	7	0.37	0.17	0.32
(1,4030)	1:204:A:LYS:HG2	1:207:A:LYS:HG3	7	0.36	0.13	0.34
(1,4031)	1:207:A:LYS:HG3	1:204:A:LYS:HG2	7	0.36	0.13	0.34
(1,1054)	1:88:A:VAL:HB	1:88:A:VAL:H	7	0.36	0.12	0.42
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG11	7	0.33	0.16	0.32
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG12	7	0.33	0.16	0.32
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG13	7	0.33	0.16	0.32
(1,1292)	1:102:A:VAL:HG11	1:98:A:ASN:HA	7	0.33	0.16	0.32
(1,1292)	1:102:A:VAL:HG12	1:98:A:ASN:HA	7	0.33	0.16	0.32
(1,1292)	1:102:A:VAL:HG13	1:98:A:ASN:HA	7	0.33	0.16	0.32
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD11	7	0.32	0.13	0.3
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD12	7	0.32	0.13	0.3
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD13	7	0.32	0.13	0.3
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD11	7	0.31	0.2	0.2
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD12	7	0.31	0.2	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD13	7	0.31	0.2	0.2
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD11	7	0.31	0.2	0.2
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD12	7	0.31	0.2	0.2
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD13	7	0.31	0.2	0.2
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD11	7	0.31	0.2	0.2
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD12	7	0.31	0.2	0.2
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD13	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG11	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG12	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG13	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG11	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG12	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG13	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG11	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG12	7	0.31	0.2	0.2
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG13	7	0.31	0.2	0.2
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG21	7	0.27	0.11	0.24
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG22	7	0.27	0.11	0.24
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG23	7	0.27	0.11	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG21	7	0.27	0.11	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG22	7	0.27	0.11	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG23	7	0.27	0.11	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG21	7	0.27	0.11	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG22	7	0.27	0.11	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG23	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG11	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG12	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG13	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG11	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG12	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG13	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG11	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG12	7	0.27	0.11	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG13	7	0.27	0.11	0.24
(1,1215)	1:98:A:ASN:H	1:97:A:ASN:H	7	0.24	0.1	0.22
(1,1216)	1:97:A:ASN:H	1:98:A:ASN:H	7	0.24	0.1	0.22
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE1	7	0.24	0.08	0.24
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE2	7	0.24	0.08	0.24
(1,4600)	1:229:A:GLU:HA	1:228:A:LYS:H	7	0.21	0.11	0.17
(1,1474)	1:110:A:ASP:HB3	1:110:A:ASP:HA	7	0.2	0.04	0.21
(1,1475)	1:110:A:ASP:HA	1:110:A:ASP:HB3	7	0.2	0.04	0.21
(1,1017)	1:86:A:ASN:HA	1:86:A:ASN:HB3	7	0.2	0.04	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1018)	1:86:A:ASN:HB3	1:86:A:ASN:HA	7	0.2	0.04	0.21
(1,1198)	1:97:A:ASN:HB3	1:97:A:ASN:HA	7	0.18	0.03	0.19
(1,1199)	1:97:A:ASN:HA	1:97:A:ASN:HB3	7	0.18	0.03	0.19
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD21	7	0.18	0.05	0.18
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD22	7	0.18	0.05	0.18
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD23	7	0.18	0.05	0.18
(1,3974)	1:205:A:LEU:HD21	1:202:A:PRO:HD3	7	0.18	0.05	0.18
(1,3974)	1:205:A:LEU:HD22	1:202:A:PRO:HD3	7	0.18	0.05	0.18
(1,3974)	1:205:A:LEU:HD23	1:202:A:PRO:HD3	7	0.18	0.05	0.18
(1,1805)	1:125:A:LEU:HA	1:125:A:LEU:HB3	7	0.17	0.04	0.17
(1,1806)	1:125:A:LEU:HB3	1:125:A:LEU:HA	7	0.17	0.04	0.17
(1,2518)	1:156:A:GLU:HB3	1:156:A:GLU:HA	7	0.17	0.04	0.18
(1,2519)	1:156:A:GLU:HA	1:156:A:GLU:HB3	7	0.17	0.04	0.18
(1,922)	1:81:A:TYR:HA	1:81:A:TYR:HB3	7	0.17	0.02	0.16
(1,923)	1:81:A:TYR:HB3	1:81:A:TYR:HA	7	0.17	0.02	0.16
(1,1961)	1:132:A:ARG:HA	1:132:A:ARG:H	7	0.16	0.02	0.15
(1,814)	1:73:A:THR:H	1:74:A:TYR:H	7	0.16	0.03	0.17
(1,815)	1:74:A:TYR:H	1:73:A:THR:H	7	0.16	0.03	0.17
(1,2544)	1:156:A:GLU:H	1:157:A:ALA:H	7	0.16	0.03	0.14
(1,2286)	1:146:A:LEU:HB2	1:146:A:LEU:HA	7	0.15	0.03	0.16
(1,2287)	1:146:A:LEU:HA	1:146:A:LEU:HB2	7	0.15	0.03	0.16
(1,727)	1:70:A:PHE:HA	1:70:A:PHE:H	7	0.14	0.03	0.15
(1,193)	1:51:A:GLN:HB2	1:51:A:GLN:HA	7	0.14	0.03	0.13
(1,194)	1:51:A:GLN:HA	1:51:A:GLN:HB2	7	0.14	0.03	0.13
(1,4165)	1:207:A:LYS:HG3	1:211:A:ASP:H	7	0.14	0.02	0.14
(1,723)	1:70:A:PHE:HB3	1:70:A:PHE:HA	7	0.13	0.01	0.13
(1,724)	1:70:A:PHE:HA	1:70:A:PHE:HB3	7	0.13	0.01	0.13
(1,466)	1:60:A:LEU:HA	1:60:A:LEU:H	7	0.12	0.01	0.12
(1,955)	1:82:A:VAL:HA	1:82:A:VAL:H	7	0.12	0.02	0.11
(1,2023)	1:135:A:ALA:HA	1:135:A:ALA:H	7	0.12	0.01	0.11
(1,2315)	1:147:A:ARG:HA	1:147:A:ARG:H	7	0.12	0.01	0.11
(1,2339)	1:148:A:SER:HA	1:148:A:SER:H	7	0.11	0.01	0.11
(1,356)	1:57:A:GLU:HA	1:57:A:GLU:H	7	0.11	0.01	0.11
(1,5067)	1:218:A:HIS:HD2	1:242:A:TRP:HB2	6	0.86	0.29	0.96
(1,5068)	1:242:A:TRP:HB2	1:218:A:HIS:HD2	6	0.86	0.29	0.96
(1,4567)	1:218:A:HIS:HD2	1:228:A:LYS:HE3	6	0.73	0.41	0.84
(1,4568)	1:228:A:LYS:HE3	1:218:A:HIS:HD2	6	0.73	0.41	0.84
(1,1718)	1:120:A:THR:HG21	1:123:A:ALA:H	6	0.64	0.18	0.69
(1,1718)	1:120:A:THR:HG22	1:123:A:ALA:H	6	0.64	0.18	0.69
(1,1718)	1:120:A:THR:HG23	1:123:A:ALA:H	6	0.64	0.18	0.69
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG21	6	0.55	0.03	0.55
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG22	6	0.55	0.03	0.55

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG23	6	0.55	0.03	0.55
(1,5171)	1:214:A:ILE:HG21	1:244:A:SER:HB3	6	0.55	0.03	0.55
(1,5171)	1:214:A:ILE:HG22	1:244:A:SER:HB3	6	0.55	0.03	0.55
(1,5171)	1:214:A:ILE:HG23	1:244:A:SER:HB3	6	0.55	0.03	0.55
(1,1434)	1:107:A:ASN:H	1:106:A:THR:H	6	0.49	0.15	0.46
(1,1435)	1:106:A:THR:H	1:107:A:ASN:H	6	0.49	0.15	0.46
(1,1967)	1:133:A:SER:HB2	1:120:A:THR:H	6	0.47	0.37	0.39
(1,23)	1:43:A:HIS:HA	1:46:A:ASP:H	6	0.43	0.14	0.46
(1,866)	1:76:A:PHE:H	1:77:A:TRP:H	6	0.41	0.31	0.27
(1,867)	1:77:A:TRP:H	1:76:A:PHE:H	6	0.41	0.31	0.27
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD11	6	0.4	0.12	0.34
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD12	6	0.4	0.12	0.34
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD13	6	0.4	0.12	0.34
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD11	6	0.4	0.12	0.34
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD12	6	0.4	0.12	0.34
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD13	6	0.4	0.12	0.34
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD11	6	0.4	0.12	0.34
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD12	6	0.4	0.12	0.34
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD13	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG21	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG22	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG23	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG21	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG22	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG23	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG21	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG22	6	0.4	0.12	0.34
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG23	6	0.4	0.12	0.34
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD21	6	0.4	0.24	0.33
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD22	6	0.4	0.24	0.33
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD23	6	0.4	0.24	0.33
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD21	6	0.4	0.24	0.33
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD22	6	0.4	0.24	0.33
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD23	6	0.4	0.24	0.33
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD21	6	0.4	0.24	0.33
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD22	6	0.4	0.24	0.33
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD23	6	0.4	0.24	0.33
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE1	6	0.34	0.05	0.34
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE2	6	0.34	0.05	0.34
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE1	6	0.34	0.05	0.34
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE2	6	0.34	0.05	0.34
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE1	6	0.34	0.05	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE2	6	0.34	0.05	0.34
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD21	6	0.34	0.29	0.16
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD22	6	0.34	0.29	0.16
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD23	6	0.34	0.29	0.16
(1,4169)	1:208:A:LEU:HD21	1:211:A:ASP:HB2	6	0.34	0.29	0.16
(1,4169)	1:208:A:LEU:HD22	1:211:A:ASP:HB2	6	0.34	0.29	0.16
(1,4169)	1:208:A:LEU:HD23	1:211:A:ASP:HB2	6	0.34	0.29	0.16
(1,655)	1:68:A:GLU:HG2	1:64:A:ARG:HB2	6	0.27	0.11	0.32
(1,656)	1:64:A:ARG:HB2	1:68:A:GLU:HG2	6	0.27	0.11	0.32
(1,796)	1:74:A:TYR:HD1	1:71:A:SER:HA	6	0.24	0.14	0.2
(1,796)	1:74:A:TYR:HD2	1:71:A:SER:HA	6	0.24	0.14	0.2
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD1	6	0.24	0.14	0.2
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD2	6	0.24	0.14	0.2
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD11	6	0.24	0.08	0.22
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD12	6	0.24	0.08	0.22
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD13	6	0.24	0.08	0.22
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD11	6	0.24	0.08	0.22
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD12	6	0.24	0.08	0.22
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD13	6	0.24	0.08	0.22
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD11	6	0.24	0.08	0.22
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD12	6	0.24	0.08	0.22
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD13	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG21	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG22	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG23	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG21	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG22	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG23	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG21	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG22	6	0.24	0.08	0.22
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG23	6	0.24	0.08	0.22
(1,894)	1:79:A:ASP:HB2	1:79:A:ASP:HA	6	0.23	0.0	0.23
(1,895)	1:79:A:ASP:HA	1:79:A:ASP:HB2	6	0.23	0.0	0.23
(1,1379)	1:102:A:VAL:HA	1:105:A:THR:H	6	0.22	0.06	0.21
(1,1865)	1:129:A:LEU:HD21	1:94:A:PHE:H	6	0.2	0.06	0.18
(1,1865)	1:129:A:LEU:HD22	1:94:A:PHE:H	6	0.2	0.06	0.18
(1,1865)	1:129:A:LEU:HD23	1:94:A:PHE:H	6	0.2	0.06	0.18
(1,2756)	1:166:A:ASP:HA	1:166:A:ASP:HB3	6	0.2	0.04	0.21
(1,2757)	1:166:A:ASP:HB3	1:166:A:ASP:HA	6	0.2	0.04	0.21
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD21	6	0.2	0.07	0.2
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD22	6	0.2	0.07	0.2
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD23	6	0.2	0.07	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1934)	1:125:A:LEU:HD21	1:132:A:ARG:HA	6	0.2	0.07	0.2
(1,1934)	1:125:A:LEU:HD22	1:132:A:ARG:HA	6	0.2	0.07	0.2
(1,1934)	1:125:A:LEU:HD23	1:132:A:ARG:HA	6	0.2	0.07	0.2
(1,868)	1:77:A:TRP:HA	1:77:A:TRP:HB3	6	0.2	0.03	0.21
(1,869)	1:77:A:TRP:HB3	1:77:A:TRP:HA	6	0.2	0.03	0.21
(1,1300)	1:101:A:SER:H	1:102:A:VAL:H	6	0.19	0.04	0.2
(1,1301)	1:102:A:VAL:H	1:101:A:SER:H	6	0.19	0.04	0.2
(1,897)	1:79:A:ASP:HB3	1:79:A:ASP:H	6	0.19	0.01	0.19
(1,1183)	1:96:A:LYS:HB2	1:96:A:LYS:HA	6	0.18	0.03	0.18
(1,1184)	1:96:A:LYS:HA	1:96:A:LYS:HB2	6	0.18	0.03	0.18
(1,2369)	1:147:A:ARG:HA	1:150:A:ARG:H	6	0.16	0.06	0.16
(1,857)	1:76:A:PHE:HA	1:76:A:PHE:H	6	0.16	0.02	0.17
(1,2099)	1:139:A:ASN:HA	1:139:A:ASN:HB3	6	0.16	0.01	0.15
(1,2100)	1:139:A:ASN:HB3	1:139:A:ASN:HA	6	0.16	0.01	0.15
(1,633)	1:66:A:ASN:HA	1:66:A:ASN:H	6	0.14	0.02	0.13
(1,2814)	1:168:A:ALA:HB1	1:170:A:ALA:H	6	0.13	0.02	0.13
(1,2814)	1:168:A:ALA:HB2	1:170:A:ALA:H	6	0.13	0.02	0.13
(1,2814)	1:168:A:ALA:HB3	1:170:A:ALA:H	6	0.13	0.02	0.13
(1,4468)	1:219:A:LEU:HA	1:219:A:LEU:HB2	6	0.13	0.01	0.14
(1,248)	1:54:A:PHE:HB3	1:51:A:GLN:HB2	6	0.12	0.02	0.12
(1,2132)	1:141:A:ASP:HA	1:141:A:ASP:H	6	0.12	0.02	0.12
(1,122)	1:49:A:ILE:HA	1:49:A:ILE:H	6	0.12	0.03	0.11
(1,1150)	1:94:A:PHE:H	1:93:A:ALA:H	6	0.12	0.01	0.11
(1,1151)	1:93:A:ALA:H	1:94:A:PHE:H	6	0.12	0.01	0.11
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD21	5	0.96	0.17	0.99
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD22	5	0.96	0.17	0.99
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD23	5	0.96	0.17	0.99
(1,4478)	1:220:A:LEU:HD21	1:218:A:HIS:HD2	5	0.96	0.17	0.99
(1,4478)	1:220:A:LEU:HD22	1:218:A:HIS:HD2	5	0.96	0.17	0.99
(1,4478)	1:220:A:LEU:HD23	1:218:A:HIS:HD2	5	0.96	0.17	0.99
(1,1842)	1:124:A:MET:HG3	1:128:A:GLU:H	5	0.91	0.37	1.12
(1,4473)	1:218:A:HIS:HD2	1:220:A:LEU:HA	5	0.86	0.2	0.86
(1,4474)	1:220:A:LEU:HA	1:218:A:HIS:HD2	5	0.86	0.2	0.86
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD11	5	0.73	0.27	0.62
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD12	5	0.73	0.27	0.62
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD13	5	0.73	0.27	0.62
(1,4570)	1:220:A:LEU:HD11	1:228:A:LYS:HD2	5	0.73	0.27	0.62
(1,4570)	1:220:A:LEU:HD12	1:228:A:LYS:HD2	5	0.73	0.27	0.62
(1,4570)	1:220:A:LEU:HD13	1:228:A:LYS:HD2	5	0.73	0.27	0.62
(1,2293)	1:147:A:ARG:HB3	1:144:A:ASP:HB3	5	0.62	0.18	0.66
(1,2294)	1:144:A:ASP:HB3	1:147:A:ARG:HB3	5	0.62	0.18	0.66
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD11	5	0.45	0.09	0.43

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD12	5	0.45	0.09	0.43
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD13	5	0.45	0.09	0.43
(1,5212)	1:244:A:SER:HB2	1:246:A:ARG:HG2	5	0.39	0.16	0.33
(1,5213)	1:246:A:ARG:HG2	1:244:A:SER:HB2	5	0.39	0.16	0.33
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG21	5	0.37	0.18	0.47
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG22	5	0.37	0.18	0.47
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG23	5	0.37	0.18	0.47
(1,5071)	1:228:A:LYS:HB3	1:242:A:TRP:H	5	0.36	0.12	0.41
(1,1103)	1:83:A:TYR:HE1	1:92:A:TRP:HE1	5	0.32	0.06	0.35
(1,1103)	1:83:A:TYR:HE2	1:92:A:TRP:HE1	5	0.32	0.06	0.35
(1,3785)	1:110:A:ASP:HA	1:199:A:ARG:H	5	0.31	0.11	0.29
(1,109)	1:49:A:ILE:HG21	1:46:A:ASP:HB3	5	0.31	0.07	0.29
(1,109)	1:49:A:ILE:HG22	1:46:A:ASP:HB3	5	0.31	0.07	0.29
(1,109)	1:49:A:ILE:HG23	1:46:A:ASP:HB3	5	0.31	0.07	0.29
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG21	5	0.31	0.07	0.29
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG22	5	0.31	0.07	0.29
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG23	5	0.31	0.07	0.29
(1,310)	1:53:A:HIS:HB3	1:56:A:VAL:HB	5	0.3	0.32	0.14
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG21	5	0.29	0.24	0.16
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG22	5	0.29	0.24	0.16
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG23	5	0.29	0.24	0.16
(1,1524)	1:88:A:VAL:HG21	1:114:A:VAL:HB	5	0.29	0.24	0.16
(1,1524)	1:88:A:VAL:HG22	1:114:A:VAL:HB	5	0.29	0.24	0.16
(1,1524)	1:88:A:VAL:HG23	1:114:A:VAL:HB	5	0.29	0.24	0.16
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD21	5	0.29	0.13	0.29
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD22	5	0.29	0.13	0.29
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD23	5	0.29	0.13	0.29
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD21	5	0.29	0.13	0.29
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD22	5	0.29	0.13	0.29
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD23	5	0.29	0.13	0.29
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE1	5	0.29	0.13	0.29
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE2	5	0.29	0.13	0.29
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE1	5	0.29	0.13	0.29
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE2	5	0.29	0.13	0.29
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE1	5	0.29	0.13	0.29
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE2	5	0.29	0.13	0.29
(1,3397)	1:191:A:ALA:HB1	1:150:A:ARG:HE	5	0.28	0.28	0.17
(1,3397)	1:191:A:ALA:HB2	1:150:A:ARG:HE	5	0.28	0.28	0.17
(1,3397)	1:191:A:ALA:HB3	1:150:A:ARG:HE	5	0.28	0.28	0.17
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG21	5	0.28	0.22	0.22
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG22	5	0.28	0.22	0.22
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG23	5	0.28	0.22	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2687)	1:163:A:VAL:HG21	1:161:A:ARG:HB2	5	0.28	0.22	0.22
(1,2687)	1:163:A:VAL:HG22	1:161:A:ARG:HB2	5	0.28	0.22	0.22
(1,2687)	1:163:A:VAL:HG23	1:161:A:ARG:HB2	5	0.28	0.22	0.22
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD11	5	0.24	0.05	0.26
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD12	5	0.24	0.05	0.26
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD13	5	0.24	0.05	0.26
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD11	5	0.24	0.05	0.26
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD12	5	0.24	0.05	0.26
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD13	5	0.24	0.05	0.26
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD11	5	0.24	0.05	0.26
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD12	5	0.24	0.05	0.26
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD13	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG21	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG22	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG23	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG21	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG22	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG23	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG21	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG22	5	0.24	0.05	0.26
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG23	5	0.24	0.05	0.26
(1,1981)	1:113:A:PHE:HE1	1:134:A:LEU:HA	5	0.24	0.07	0.27
(1,1981)	1:113:A:PHE:HE2	1:134:A:LEU:HA	5	0.24	0.07	0.27
(1,2311)	1:147:A:ARG:HA	1:147:A:ARG:HB3	5	0.24	0.02	0.24
(1,2312)	1:147:A:ARG:HB3	1:147:A:ARG:HA	5	0.24	0.02	0.24
(1,2313)	1:147:A:ARG:HA	1:147:A:ARG:HB2	5	0.24	0.02	0.25
(1,2314)	1:147:A:ARG:HB2	1:147:A:ARG:HA	5	0.24	0.02	0.25
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG11	5	0.23	0.05	0.23
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG12	5	0.23	0.05	0.23
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG13	5	0.23	0.05	0.23
(1,1489)	1:112:A:VAL:HG11	1:99:A:LEU:HB3	5	0.23	0.05	0.23
(1,1489)	1:112:A:VAL:HG12	1:99:A:LEU:HB3	5	0.23	0.05	0.23
(1,1489)	1:112:A:VAL:HG13	1:99:A:LEU:HB3	5	0.23	0.05	0.23
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB1	5	0.22	0.05	0.24
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB2	5	0.22	0.05	0.24
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB3	5	0.22	0.05	0.24
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB1	5	0.22	0.05	0.24
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB2	5	0.22	0.05	0.24
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB3	5	0.22	0.05	0.24
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB1	5	0.22	0.05	0.24
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB2	5	0.22	0.05	0.24
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB3	5	0.22	0.05	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB1	5	0.22	0.05	0.24
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB2	5	0.22	0.05	0.24
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB3	5	0.22	0.05	0.24
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB1	5	0.22	0.05	0.24
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB2	5	0.22	0.05	0.24
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB3	5	0.22	0.05	0.24
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB1	5	0.22	0.05	0.24
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB2	5	0.22	0.05	0.24
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB3	5	0.22	0.05	0.24
(1,72)	1:48:A:ALA:HB1	1:44:A:GLN:HG2	5	0.22	0.1	0.2
(1,72)	1:48:A:ALA:HB2	1:44:A:GLN:HG2	5	0.22	0.1	0.2
(1,72)	1:48:A:ALA:HB3	1:44:A:GLN:HG2	5	0.22	0.1	0.2
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB1	5	0.22	0.1	0.2
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB2	5	0.22	0.1	0.2
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB3	5	0.22	0.1	0.2
(1,1947)	1:130:A:SER:HA	1:132:A:ARG:H	5	0.22	0.07	0.22
(1,2921)	1:162:A:TYR:HA	1:172:A:LEU:H	5	0.2	0.02	0.21
(1,755)	1:71:A:SER:HA	1:72:A:THR:H	5	0.19	0.07	0.21
(1,740)	1:71:A:SER:HB2	1:71:A:SER:HA	5	0.18	0.02	0.19
(1,741)	1:71:A:SER:HA	1:71:A:SER:HB2	5	0.18	0.02	0.19
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD11	5	0.18	0.04	0.18
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD12	5	0.18	0.04	0.18
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD13	5	0.18	0.04	0.18
(1,1095)	1:91:A:ASP:HB2	1:91:A:ASP:H	5	0.18	0.04	0.19
(1,4585)	1:228:A:LYS:HA	1:228:A:LYS:HB2	5	0.18	0.03	0.16
(1,4586)	1:228:A:LYS:HB2	1:228:A:LYS:HA	5	0.18	0.03	0.16
(1,5222)	1:246:A:ARG:HB3	1:246:A:ARG:H	5	0.18	0.05	0.15
(1,609)	1:65:A:GLU:HB3	1:65:A:GLU:HA	5	0.17	0.04	0.18
(1,610)	1:65:A:GLU:HA	1:65:A:GLU:HB3	5	0.17	0.04	0.18
(1,700)	1:69:A:GLN:HA	1:69:A:GLN:HB3	5	0.17	0.05	0.15
(1,702)	1:69:A:GLN:HA	1:69:A:GLN:HB2	5	0.16	0.04	0.14
(1,1108)	1:91:A:ASP:HA	1:92:A:TRP:H	5	0.16	0.02	0.17
(1,2475)	1:151:A:ARG:HA	1:154:A:VAL:H	5	0.16	0.03	0.15
(1,377)	1:55:A:TYR:HE1	1:58:A:LYS:HB3	5	0.15	0.04	0.14
(1,377)	1:55:A:TYR:HE2	1:58:A:LYS:HB3	5	0.15	0.04	0.14
(1,911)	1:80:A:ALA:HA	1:80:A:ALA:H	5	0.15	0.04	0.17
(1,4044)	1:206:A:ALA:H	1:207:A:LYS:H	5	0.14	0.03	0.12
(1,4045)	1:207:A:LYS:H	1:206:A:ALA:H	5	0.14	0.03	0.12
(1,1170)	1:95:A:THR:HA	1:95:A:THR:H	5	0.13	0.01	0.13
(1,235)	1:53:A:HIS:HA	1:53:A:HIS:H	5	0.11	0.01	0.11
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD21	4	1.08	0.24	1.04
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD22	4	1.08	0.24	1.04

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD23	4	1.08	0.24	1.04
(1,1737)	1:99:A:LEU:HD21	1:124:A:MET:HG2	4	1.08	0.24	1.04
(1,1737)	1:99:A:LEU:HD22	1:124:A:MET:HG2	4	1.08	0.24	1.04
(1,1737)	1:99:A:LEU:HD23	1:124:A:MET:HG2	4	1.08	0.24	1.04
(1,3428)	1:81:A:TYR:HD1	1:192:A:SER:HB2	4	0.68	0.16	0.68
(1,3428)	1:81:A:TYR:HD2	1:192:A:SER:HB2	4	0.68	0.16	0.68
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD1	4	0.68	0.16	0.68
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD2	4	0.68	0.16	0.68
(1,886)	1:77:A:TRP:HE1	1:79:A:ASP:H	4	0.66	0.24	0.64
(1,887)	1:79:A:ASP:H	1:77:A:TRP:HE1	4	0.66	0.24	0.64
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB1	4	0.49	0.16	0.49
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB2	4	0.49	0.16	0.49
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB3	4	0.49	0.16	0.49
(1,4982)	1:241:A:ALA:HB1	1:218:A:HIS:HD2	4	0.49	0.16	0.49
(1,4982)	1:241:A:ALA:HB2	1:218:A:HIS:HD2	4	0.49	0.16	0.49
(1,4982)	1:241:A:ALA:HB3	1:218:A:HIS:HD2	4	0.49	0.16	0.49
(1,5003)	1:241:A:ALA:HB1	1:228:A:LYS:HD3	4	0.47	0.22	0.48
(1,5003)	1:241:A:ALA:HB2	1:228:A:LYS:HD3	4	0.47	0.22	0.48
(1,5003)	1:241:A:ALA:HB3	1:228:A:LYS:HD3	4	0.47	0.22	0.48
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD11	4	0.45	0.19	0.48
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD12	4	0.45	0.19	0.48
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD13	4	0.45	0.19	0.48
(1,4476)	1:220:A:LEU:HD11	1:218:A:HIS:HD2	4	0.45	0.19	0.48
(1,4476)	1:220:A:LEU:HD12	1:218:A:HIS:HD2	4	0.45	0.19	0.48
(1,4476)	1:220:A:LEU:HD13	1:218:A:HIS:HD2	4	0.45	0.19	0.48
(1,3139)	1:179:A:PRO:HA	1:77:A:TRP:H	4	0.42	0.14	0.41
(1,5207)	1:48:A:ALA:HB1	1:246:A:ARG:H	4	0.42	0.24	0.36
(1,5207)	1:48:A:ALA:HB2	1:246:A:ARG:H	4	0.42	0.24	0.36
(1,5207)	1:48:A:ALA:HB3	1:246:A:ARG:H	4	0.42	0.24	0.36
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG21	4	0.38	0.23	0.29
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG22	4	0.38	0.23	0.29
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG23	4	0.38	0.23	0.29
(1,2916)	1:145:A:ILE:HG21	1:172:A:LEU:HG	4	0.38	0.23	0.29
(1,2916)	1:145:A:ILE:HG22	1:172:A:LEU:HG	4	0.38	0.23	0.29
(1,2916)	1:145:A:ILE:HG23	1:172:A:LEU:HG	4	0.38	0.23	0.29
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG21	4	0.34	0.07	0.34
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG22	4	0.34	0.07	0.34
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG23	4	0.34	0.07	0.34
(1,2763)	1:167:A:GLY:H	1:165:A:PHE:H	4	0.34	0.14	0.31
(1,2764)	1:165:A:PHE:H	1:167:A:GLY:H	4	0.34	0.14	0.31
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD11	4	0.34	0.19	0.32
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD12	4	0.34	0.19	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD13	4	0.34	0.19	0.32
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD11	4	0.34	0.19	0.32
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD12	4	0.34	0.19	0.32
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD13	4	0.34	0.19	0.32
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD11	4	0.34	0.19	0.32
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD12	4	0.34	0.19	0.32
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD13	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG21	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG22	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG23	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG21	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG22	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG23	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG21	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG22	4	0.34	0.19	0.32
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG23	4	0.34	0.19	0.32
(1,1096)	1:92:A:TRP:HZ2	1:77:A:TRP:HZ2	4	0.32	0.17	0.26
(1,143)	1:50:A:GLU:HG2	1:47:A:ILE:HB	4	0.32	0.17	0.28
(1,144)	1:47:A:ILE:HB	1:50:A:GLU:HG2	4	0.32	0.17	0.28
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG21	4	0.3	0.15	0.3
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG22	4	0.3	0.15	0.3
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG23	4	0.3	0.15	0.3
(1,5211)	1:49:A:ILE:HG21	1:246:A:ARG:HD3	4	0.3	0.15	0.3
(1,5211)	1:49:A:ILE:HG22	1:246:A:ARG:HD3	4	0.3	0.15	0.3
(1,5211)	1:49:A:ILE:HG23	1:246:A:ARG:HD3	4	0.3	0.15	0.3
(1,1343)	1:103:A:LEU:HG	1:102:A:VAL:H	4	0.29	0.09	0.32
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD21	4	0.28	0.12	0.26
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD22	4	0.28	0.12	0.26
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD23	4	0.28	0.12	0.26
(1,1233)	1:99:A:LEU:HD21	1:80:A:ALA:HA	4	0.28	0.12	0.26
(1,1233)	1:99:A:LEU:HD22	1:80:A:ALA:HA	4	0.28	0.12	0.26
(1,1233)	1:99:A:LEU:HD23	1:80:A:ALA:HA	4	0.28	0.12	0.26
(1,830)	1:73:A:THR:HB	1:75:A:SER:H	4	0.27	0.14	0.26
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG11	4	0.27	0.07	0.24
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG12	4	0.27	0.07	0.24
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG13	4	0.27	0.07	0.24
(1,1075)	1:88:A:VAL:HG11	1:90:A:ALA:HA	4	0.27	0.07	0.24
(1,1075)	1:88:A:VAL:HG12	1:90:A:ALA:HA	4	0.27	0.07	0.24
(1,1075)	1:88:A:VAL:HG13	1:90:A:ALA:HA	4	0.27	0.07	0.24
(1,1946)	1:125:A:LEU:HD21	1:132:A:ARG:H	4	0.26	0.14	0.2
(1,1946)	1:125:A:LEU:HD22	1:132:A:ARG:H	4	0.26	0.14	0.2
(1,1946)	1:125:A:LEU:HD23	1:132:A:ARG:H	4	0.26	0.14	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,827)	1:72:A:THR:HA	1:75:A:SER:H	4	0.24	0.07	0.24
(1,3377)	1:190:A:LYS:HB3	1:189:A:ALA:H	4	0.24	0.03	0.24
(1,1112)	1:92:A:TRP:HB3	1:92:A:TRP:HA	4	0.23	0.0	0.23
(1,1113)	1:92:A:TRP:HA	1:92:A:TRP:HB3	4	0.23	0.0	0.23
(1,5000)	1:241:A:ALA:HB1	1:228:A:LYS:HB3	4	0.22	0.05	0.23
(1,5000)	1:241:A:ALA:HB2	1:228:A:LYS:HB3	4	0.22	0.05	0.23
(1,5000)	1:241:A:ALA:HB3	1:228:A:LYS:HB3	4	0.22	0.05	0.23
(1,1223)	1:98:A:ASN:HB2	1:98:A:ASN:H	4	0.22	0.06	0.2
(1,3430)	1:192:A:SER:HA	1:117:A:ASP:H	4	0.2	0.08	0.18
(1,1776)	1:124:A:MET:HB3	1:124:A:MET:H	4	0.2	0.03	0.18
(1,738)	1:71:A:SER:HB3	1:71:A:SER:HA	4	0.19	0.04	0.19
(1,739)	1:71:A:SER:HA	1:71:A:SER:HB3	4	0.19	0.04	0.19
(1,1181)	1:96:A:LYS:HB3	1:96:A:LYS:HA	4	0.19	0.05	0.22
(1,1182)	1:96:A:LYS:HA	1:96:A:LYS:HB3	4	0.19	0.05	0.22
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD11	4	0.18	0.04	0.18
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD12	4	0.18	0.04	0.18
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD13	4	0.18	0.04	0.18
(1,4382)	1:205:A:LEU:HD11	1:217:A:LEU:HG	4	0.18	0.04	0.18
(1,4382)	1:205:A:LEU:HD12	1:217:A:LEU:HG	4	0.18	0.04	0.18
(1,4382)	1:205:A:LEU:HD13	1:217:A:LEU:HG	4	0.18	0.04	0.18
(1,1221)	1:98:A:ASN:HA	1:98:A:ASN:H	4	0.17	0.03	0.18
(1,2042)	1:136:A:ASP:HA	1:136:A:ASP:H	4	0.17	0.04	0.17
(1,951)	1:81:A:TYR:H	1:82:A:VAL:H	4	0.16	0.04	0.17
(1,952)	1:82:A:VAL:H	1:81:A:TYR:H	4	0.16	0.04	0.17
(1,611)	1:65:A:GLU:HB2	1:65:A:GLU:HA	4	0.16	0.04	0.16
(1,907)	1:79:A:ASP:H	1:80:A:ALA:H	4	0.16	0.06	0.13
(1,2174)	1:141:A:ASP:HA	1:144:A:ASP:H	4	0.15	0.04	0.14
(1,3754)	1:197:A:VAL:HG21	1:172:A:LEU:H	4	0.14	0.02	0.14
(1,3754)	1:197:A:VAL:HG22	1:172:A:LEU:H	4	0.14	0.02	0.14
(1,3754)	1:197:A:VAL:HG23	1:172:A:LEU:H	4	0.14	0.02	0.14
(1,1351)	1:103:A:LEU:HB3	1:103:A:LEU:H	4	0.13	0.02	0.12
(1,3930)	1:200:A:LEU:HA	1:204:A:LYS:H	4	0.12	0.04	0.11
(1,44)	1:47:A:ILE:HD11	1:44:A:GLN:HB3	4	0.12	0.02	0.12
(1,44)	1:47:A:ILE:HD12	1:44:A:GLN:HB3	4	0.12	0.02	0.12
(1,44)	1:47:A:ILE:HD13	1:44:A:GLN:HB3	4	0.12	0.02	0.12
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD11	4	0.12	0.02	0.12
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD12	4	0.12	0.02	0.12
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD13	4	0.12	0.02	0.12
(1,3218)	1:182:A:ASP:H	1:183:A:HIS:H	4	0.12	0.01	0.11
(1,3219)	1:183:A:HIS:H	1:182:A:ASP:H	4	0.12	0.01	0.11
(1,431)	1:58:A:LYS:H	1:59:A:ALA:H	4	0.11	0.02	0.11
(1,432)	1:59:A:ALA:H	1:58:A:LYS:H	4	0.11	0.02	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD1	4	0.11	0.01	0.12
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD2	4	0.11	0.01	0.12
(1,502)	1:58:A:LYS:HG2	1:62:A:ASN:HD22	3	0.98	0.6	0.84
(1,3068)	1:177:A:ILE:HD11	1:75:A:SER:HB2	3	0.54	0.18	0.67
(1,3068)	1:177:A:ILE:HD12	1:75:A:SER:HB2	3	0.54	0.18	0.67
(1,3068)	1:177:A:ILE:HD13	1:75:A:SER:HB2	3	0.54	0.18	0.67
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD11	3	0.52	0.1	0.57
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD12	3	0.52	0.1	0.57
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD13	3	0.52	0.1	0.57
(1,2324)	1:145:A:ILE:HD11	1:148:A:SER:HB2	3	0.52	0.1	0.57
(1,2324)	1:145:A:ILE:HD12	1:148:A:SER:HB2	3	0.52	0.1	0.57
(1,2324)	1:145:A:ILE:HD13	1:148:A:SER:HB2	3	0.52	0.1	0.57
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD21	3	0.42	0.16	0.45
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD22	3	0.42	0.16	0.45
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD23	3	0.42	0.16	0.45
(1,1062)	1:84:A:LEU:HD21	1:89:A:ASP:HB3	3	0.42	0.16	0.45
(1,1062)	1:84:A:LEU:HD22	1:89:A:ASP:HB3	3	0.42	0.16	0.45
(1,1062)	1:84:A:LEU:HD23	1:89:A:ASP:HB3	3	0.42	0.16	0.45
(1,1703)	1:88:A:VAL:HG11	1:123:A:ALA:H	3	0.41	0.09	0.44
(1,1703)	1:88:A:VAL:HG12	1:123:A:ALA:H	3	0.41	0.09	0.44
(1,1703)	1:88:A:VAL:HG13	1:123:A:ALA:H	3	0.41	0.09	0.44
(1,689)	1:69:A:GLN:HB3	1:66:A:ASN:HB2	3	0.4	0.18	0.48
(1,690)	1:66:A:ASN:HB2	1:69:A:GLN:HB3	3	0.4	0.18	0.48
(1,749)	1:72:A:THR:HG21	1:69:A:GLN:HG2	3	0.38	0.18	0.43
(1,749)	1:72:A:THR:HG22	1:69:A:GLN:HG2	3	0.38	0.18	0.43
(1,749)	1:72:A:THR:HG23	1:69:A:GLN:HG2	3	0.38	0.18	0.43
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG21	3	0.38	0.18	0.43
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG22	3	0.38	0.18	0.43
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG23	3	0.38	0.18	0.43
(1,1949)	1:132:A:ARG:HG3	1:131:A:GLU:H	3	0.37	0.12	0.4
(1,1188)	1:96:A:LYS:HE3	1:96:A:LYS:H	3	0.36	0.25	0.19
(1,5176)	1:229:A:GLU:HG2	1:244:A:SER:HB2	3	0.35	0.12	0.34
(1,5177)	1:244:A:SER:HB2	1:229:A:GLU:HG2	3	0.35	0.12	0.34
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD11	3	0.33	0.14	0.43
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD12	3	0.33	0.14	0.43
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD13	3	0.33	0.14	0.43
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD11	3	0.33	0.14	0.43
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD12	3	0.33	0.14	0.43
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD13	3	0.33	0.14	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD11	3	0.33	0.14	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD12	3	0.33	0.14	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD13	3	0.33	0.14	0.43

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG21	3	0.33	0.13	0.33
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG22	3	0.33	0.13	0.33
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG23	3	0.33	0.13	0.33
(1,3278)	1:186:A:ILE:HG21	1:183:A:HIS:HD2	3	0.33	0.13	0.33
(1,3278)	1:186:A:ILE:HG22	1:183:A:HIS:HD2	3	0.33	0.13	0.33
(1,3278)	1:186:A:ILE:HG23	1:183:A:HIS:HD2	3	0.33	0.13	0.33
(1,4034)	1:204:A:LYS:H	1:207:A:LYS:H	3	0.33	0.16	0.43
(1,4571)	1:220:A:LEU:HD11	1:228:A:LYS:HE3	3	0.31	0.09	0.27
(1,4571)	1:220:A:LEU:HD12	1:228:A:LYS:HE3	3	0.31	0.09	0.27
(1,4571)	1:220:A:LEU:HD13	1:228:A:LYS:HE3	3	0.31	0.09	0.27
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD11	3	0.31	0.09	0.27
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD12	3	0.31	0.09	0.27
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD13	3	0.31	0.09	0.27
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD11	3	0.28	0.16	0.22
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD12	3	0.28	0.16	0.22
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD13	3	0.28	0.16	0.22
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD11	3	0.28	0.16	0.22
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD12	3	0.28	0.16	0.22
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD13	3	0.28	0.16	0.22
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD11	3	0.28	0.16	0.22
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD12	3	0.28	0.16	0.22
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD13	3	0.28	0.16	0.22
(1,960)	1:83:A:TYR:HE1	1:79:A:ASP:HB2	3	0.27	0.09	0.32
(1,960)	1:83:A:TYR:HE2	1:79:A:ASP:HB2	3	0.27	0.09	0.32
(1,961)	1:79:A:ASP:HB2	1:83:A:TYR:HE1	3	0.27	0.09	0.32
(1,961)	1:79:A:ASP:HB2	1:83:A:TYR:HE2	3	0.27	0.09	0.32
(1,5148)	1:243:A:VAL:HG21	1:229:A:GLU:H	3	0.27	0.13	0.26
(1,5148)	1:243:A:VAL:HG22	1:229:A:GLU:H	3	0.27	0.13	0.26
(1,5148)	1:243:A:VAL:HG23	1:229:A:GLU:H	3	0.27	0.13	0.26
(1,5010)	1:241:A:ALA:HB1	1:229:A:GLU:H	3	0.26	0.16	0.16
(1,5010)	1:241:A:ALA:HB2	1:229:A:GLU:H	3	0.26	0.16	0.16
(1,5010)	1:241:A:ALA:HB3	1:229:A:GLU:H	3	0.26	0.16	0.16
(1,5100)	1:240:A:LEU:HD21	1:242:A:TRP:HZ3	3	0.24	0.13	0.17
(1,5100)	1:240:A:LEU:HD22	1:242:A:TRP:HZ3	3	0.24	0.13	0.17
(1,5100)	1:240:A:LEU:HD23	1:242:A:TRP:HZ3	3	0.24	0.13	0.17
(2,7)	1:116:A:ASP:H	1:119:A:GLY:O	3	0.24	0.02	0.25
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG11	3	0.24	0.14	0.19
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG12	3	0.24	0.14	0.19
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG13	3	0.24	0.14	0.19
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG11	3	0.24	0.14	0.19
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG12	3	0.24	0.14	0.19
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG13	3	0.24	0.14	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1674)	1:112:A:VAL:HG11	1:122:A:TYR:HE1	3	0.24	0.14	0.19
(1,1674)	1:112:A:VAL:HG11	1:122:A:TYR:HE2	3	0.24	0.14	0.19
(1,1674)	1:112:A:VAL:HG12	1:122:A:TYR:HE1	3	0.24	0.14	0.19
(1,1674)	1:112:A:VAL:HG12	1:122:A:TYR:HE2	3	0.24	0.14	0.19
(1,1674)	1:112:A:VAL:HG13	1:122:A:TYR:HE1	3	0.24	0.14	0.19
(1,1674)	1:112:A:VAL:HG13	1:122:A:TYR:HE2	3	0.24	0.14	0.19
(1,1019)	1:86:A:ASN:HA	1:86:A:ASN:HB2	3	0.23	0.0	0.23
(1,1020)	1:86:A:ASN:HB2	1:86:A:ASN:HA	3	0.23	0.0	0.23
(1,2272)	1:146:A:LEU:HD11	1:143:A:GLY:H	3	0.23	0.16	0.12
(1,2272)	1:146:A:LEU:HD12	1:143:A:GLY:H	3	0.23	0.16	0.12
(1,2272)	1:146:A:LEU:HD13	1:143:A:GLY:H	3	0.23	0.16	0.12
(1,5164)	1:49:A:ILE:HG21	1:244:A:SER:HB3	3	0.23	0.1	0.21
(1,5164)	1:49:A:ILE:HG22	1:244:A:SER:HB3	3	0.23	0.1	0.21
(1,5164)	1:49:A:ILE:HG23	1:244:A:SER:HB3	3	0.23	0.1	0.21
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG21	3	0.23	0.1	0.21
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG22	3	0.23	0.1	0.21
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG23	3	0.23	0.1	0.21
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD11	3	0.23	0.08	0.23
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD12	3	0.23	0.08	0.23
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD13	3	0.23	0.08	0.23
(1,3463)	1:146:A:LEU:HD11	1:193:A:VAL:HB	3	0.23	0.08	0.23
(1,3463)	1:146:A:LEU:HD12	1:193:A:VAL:HB	3	0.23	0.08	0.23
(1,3463)	1:146:A:LEU:HD13	1:193:A:VAL:HB	3	0.23	0.08	0.23
(1,575)	1:62:A:ASN:HB2	1:64:A:ARG:H	3	0.23	0.09	0.28
(1,1476)	1:110:A:ASP:HB2	1:110:A:ASP:HA	3	0.23	0.02	0.24
(1,1477)	1:110:A:ASP:HA	1:110:A:ASP:HB2	3	0.23	0.02	0.24
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG11	3	0.23	0.04	0.2
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG12	3	0.23	0.04	0.2
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG13	3	0.23	0.04	0.2
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG11	3	0.23	0.04	0.2
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG12	3	0.23	0.04	0.2
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG13	3	0.23	0.04	0.2
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG11	3	0.23	0.04	0.2
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG12	3	0.23	0.04	0.2
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG13	3	0.23	0.04	0.2
(1,3539)	1:176:A:ALA:HA	1:194:A:MET:H	3	0.23	0.05	0.2
(1,1219)	1:98:A:ASN:HB2	1:98:A:ASN:HA	3	0.22	0.02	0.23
(1,1220)	1:98:A:ASN:HA	1:98:A:ASN:HB2	3	0.22	0.02	0.23
(1,99)	1:49:A:ILE:HD11	1:46:A:ASP:HB3	3	0.21	0.08	0.19
(1,99)	1:49:A:ILE:HD12	1:46:A:ASP:HB3	3	0.21	0.08	0.19
(1,99)	1:49:A:ILE:HD13	1:46:A:ASP:HB3	3	0.21	0.08	0.19
(1,2284)	1:146:A:LEU:HB3	1:146:A:LEU:HA	3	0.21	0.02	0.21

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1972)	1:132:A:ARG:HD2	1:133:A:SER:H	3	0.21	0.07	0.22
(1,1622)	1:120:A:THR:HA	1:120:A:THR:HB	3	0.2	0.06	0.24
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG21	3	0.19	0.1	0.12
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG22	3	0.19	0.1	0.12
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG23	3	0.19	0.1	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG21	3	0.19	0.1	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG22	3	0.19	0.1	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG23	3	0.19	0.1	0.12
(1,2975)	1:173:A:VAL:HG21	1:109:A:TYR:HE1	3	0.19	0.1	0.12
(1,2975)	1:173:A:VAL:HG21	1:109:A:TYR:HE2	3	0.19	0.1	0.12
(1,2975)	1:173:A:VAL:HG22	1:109:A:TYR:HE1	3	0.19	0.1	0.12
(1,2975)	1:173:A:VAL:HG22	1:109:A:TYR:HE2	3	0.19	0.1	0.12
(1,2975)	1:173:A:VAL:HG23	1:109:A:TYR:HE1	3	0.19	0.1	0.12
(1,2975)	1:173:A:VAL:HG23	1:109:A:TYR:HE2	3	0.19	0.1	0.12
(1,4084)	1:208:A:LEU:HD11	1:63:A:ARG:H	3	0.19	0.07	0.17
(1,4084)	1:208:A:LEU:HD12	1:63:A:ARG:H	3	0.19	0.07	0.17
(1,4084)	1:208:A:LEU:HD13	1:63:A:ARG:H	3	0.19	0.07	0.17
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD11	3	0.19	0.05	0.2
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD12	3	0.19	0.05	0.2
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD13	3	0.19	0.05	0.2
(1,5047)	1:214:A:ILE:HD11	1:242:A:TRP:HD1	3	0.19	0.05	0.2
(1,5047)	1:214:A:ILE:HD12	1:242:A:TRP:HD1	3	0.19	0.05	0.2
(1,5047)	1:214:A:ILE:HD13	1:242:A:TRP:HD1	3	0.19	0.05	0.2
(1,1764)	1:124:A:MET:H	1:112:A:VAL:H	3	0.18	0.06	0.17
(1,1765)	1:112:A:VAL:H	1:124:A:MET:H	3	0.18	0.06	0.17
(1,93)	1:45:A:ASP:HA	1:49:A:ILE:H	3	0.17	0.08	0.12
(1,4074)	1:208:A:LEU:HD21	1:60:A:LEU:H	3	0.17	0.06	0.13
(1,4074)	1:208:A:LEU:HD22	1:60:A:LEU:H	3	0.17	0.06	0.13
(1,4074)	1:208:A:LEU:HD23	1:60:A:LEU:H	3	0.17	0.06	0.13
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG21	3	0.16	0.04	0.14
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG22	3	0.16	0.04	0.14
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG23	3	0.16	0.04	0.14
(1,826)	1:72:A:THR:HG21	1:75:A:SER:HB2	3	0.16	0.04	0.14
(1,826)	1:72:A:THR:HG22	1:75:A:SER:HB2	3	0.16	0.04	0.14
(1,826)	1:72:A:THR:HG23	1:75:A:SER:HB2	3	0.16	0.04	0.14
(1,4713)	1:233:A:LEU:HD21	1:162:A:TYR:HE1	3	0.16	0.05	0.15
(1,4713)	1:233:A:LEU:HD21	1:162:A:TYR:HE2	3	0.16	0.05	0.15
(1,4713)	1:233:A:LEU:HD22	1:162:A:TYR:HE1	3	0.16	0.05	0.15
(1,4713)	1:233:A:LEU:HD22	1:162:A:TYR:HE2	3	0.16	0.05	0.15
(1,4713)	1:233:A:LEU:HD23	1:162:A:TYR:HE1	3	0.16	0.05	0.15
(1,4713)	1:233:A:LEU:HD23	1:162:A:TYR:HE2	3	0.16	0.05	0.15
(2,25)	1:171:A:ILE:H	1:198:A:ASP:O	3	0.16	0.04	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3224)	1:183:A:HIS:HA	1:183:A:HIS:H	3	0.15	0.01	0.15
(1,581)	1:63:A:ARG:H	1:64:A:ARG:H	3	0.15	0.02	0.14
(1,582)	1:64:A:ARG:H	1:63:A:ARG:H	3	0.15	0.02	0.14
(1,2520)	1:156:A:GLU:HB2	1:156:A:GLU:HA	3	0.15	0.04	0.12
(1,2521)	1:156:A:GLU:HA	1:156:A:GLU:HB2	3	0.15	0.04	0.12
(1,1807)	1:125:A:LEU:HA	1:125:A:LEU:HB2	3	0.14	0.05	0.11
(1,1808)	1:125:A:LEU:HB2	1:125:A:LEU:HA	3	0.14	0.05	0.11
(1,2532)	1:153:A:ALA:HB1	1:157:A:ALA:H	3	0.14	0.04	0.11
(1,2532)	1:153:A:ALA:HB2	1:157:A:ALA:H	3	0.14	0.04	0.11
(1,2532)	1:153:A:ALA:HB3	1:157:A:ALA:H	3	0.14	0.04	0.11
(1,4587)	1:228:A:LYS:HA	1:228:A:LYS:H	3	0.13	0.01	0.14
(1,2376)	1:150:A:ARG:H	1:149:A:ALA:H	3	0.13	0.01	0.12
(1,2377)	1:149:A:ALA:H	1:150:A:ARG:H	3	0.13	0.01	0.12
(1,3176)	1:179:A:PRO:HD2	1:180:A:THR:H	3	0.13	0.02	0.13
(1,13)	1:44:A:GLN:H	1:45:A:ASP:H	3	0.12	0.02	0.12
(1,14)	1:45:A:ASP:H	1:44:A:GLN:H	3	0.12	0.02	0.12
(1,2541)	1:157:A:ALA:HA	1:156:A:GLU:H	3	0.12	0.02	0.11
(1,1090)	1:91:A:ASP:H	1:90:A:ALA:H	3	0.11	0.0	0.11
(1,1091)	1:90:A:ALA:H	1:91:A:ASP:H	3	0.11	0.0	0.11
(1,2784)	1:168:A:ALA:HA	1:168:A:ALA:H	3	0.11	0.01	0.11
(1,554)	1:63:A:ARG:HB3	1:63:A:ARG:HA	3	0.11	0.01	0.11
(1,555)	1:63:A:ARG:HA	1:63:A:ARG:HB3	3	0.11	0.01	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD11	3	0.11	0.0	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD12	3	0.11	0.0	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD13	3	0.11	0.0	0.11
(1,4639)	1:231:A:LEU:HD11	1:56:A:VAL:HA	3	0.11	0.0	0.11
(1,4639)	1:231:A:LEU:HD12	1:56:A:VAL:HA	3	0.11	0.0	0.11
(1,4639)	1:231:A:LEU:HD13	1:56:A:VAL:HA	3	0.11	0.0	0.11
(1,4025)	1:207:A:LYS:HD2	1:204:A:LYS:HB2	2	0.97	0.04	0.97
(1,3066)	1:177:A:ILE:HD11	1:75:A:SER:HB3	2	0.96	0.08	0.96
(1,3066)	1:177:A:ILE:HD12	1:75:A:SER:HB3	2	0.96	0.08	0.96
(1,3066)	1:177:A:ILE:HD13	1:75:A:SER:HB3	2	0.96	0.08	0.96
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD11	2	0.96	0.08	0.96
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD12	2	0.96	0.08	0.96
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD13	2	0.96	0.08	0.96
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB1	2	0.78	0.3	0.78
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB2	2	0.78	0.3	0.78
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB3	2	0.78	0.3	0.78
(1,199)	1:48:A:ALA:HB1	1:52:A:SER:HB3	2	0.78	0.3	0.78
(1,199)	1:48:A:ALA:HB2	1:52:A:SER:HB3	2	0.78	0.3	0.78
(1,199)	1:48:A:ALA:HB3	1:52:A:SER:HB3	2	0.78	0.3	0.78
(1,1601)	1:118:A:ARG:HD3	1:119:A:GLY:H	2	0.67	0.05	0.67

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD21	2	0.66	0.12	0.66
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD22	2	0.66	0.12	0.66
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD23	2	0.66	0.12	0.66
(1,2267)	1:146:A:LEU:HD21	1:118:A:ARG:HD3	2	0.66	0.12	0.66
(1,2267)	1:146:A:LEU:HD22	1:118:A:ARG:HD3	2	0.66	0.12	0.66
(1,2267)	1:146:A:LEU:HD23	1:118:A:ARG:HD3	2	0.66	0.12	0.66
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG11	2	0.54	0.15	0.54
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG12	2	0.54	0.15	0.54
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG13	2	0.54	0.15	0.54
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG11	2	0.54	0.15	0.54
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG12	2	0.54	0.15	0.54
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG13	2	0.54	0.15	0.54
(1,2735)	1:163:A:VAL:HG11	1:165:A:PHE:HD1	2	0.54	0.15	0.54
(1,2735)	1:163:A:VAL:HG11	1:165:A:PHE:HD2	2	0.54	0.15	0.54
(1,2735)	1:163:A:VAL:HG12	1:165:A:PHE:HD1	2	0.54	0.15	0.54
(1,2735)	1:163:A:VAL:HG12	1:165:A:PHE:HD2	2	0.54	0.15	0.54
(1,2735)	1:163:A:VAL:HG13	1:165:A:PHE:HD1	2	0.54	0.15	0.54
(1,2735)	1:163:A:VAL:HG13	1:165:A:PHE:HD2	2	0.54	0.15	0.54
(1,2027)	1:132:A:ARG:HG3	1:136:A:ASP:HB2	2	0.53	0.32	0.53
(1,2028)	1:136:A:ASP:HB2	1:132:A:ARG:HG3	2	0.53	0.32	0.53
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE1	2	0.5	0.24	0.5
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE2	2	0.5	0.24	0.5
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE3	2	0.5	0.24	0.5
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE1	2	0.5	0.24	0.5
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE2	2	0.5	0.24	0.5
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE3	2	0.5	0.24	0.5
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE1	2	0.5	0.24	0.5
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE2	2	0.5	0.24	0.5
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE3	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD11	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD12	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD13	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD11	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD12	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD13	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD11	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD12	2	0.5	0.24	0.5
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD13	2	0.5	0.24	0.5
(1,1206)	1:98:A:ASN:HA	1:77:A:TRP:HH2	2	0.48	0.13	0.48
(1,2025)	1:132:A:ARG:HG3	1:136:A:ASP:HB3	2	0.48	0.14	0.48
(1,2026)	1:136:A:ASP:HB3	1:132:A:ARG:HG3	2	0.48	0.14	0.48
(1,2297)	1:147:A:ARG:HD2	1:144:A:ASP:HB3	2	0.46	0.12	0.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2298)	1:144:A:ASP:HB3	1:147:A:ARG:HD2	2	0.46	0.12	0.46
(1,1097)	1:79:A:ASP:HB2	1:92:A:TRP:HE1	2	0.45	0.11	0.45
(1,1834)	1:124:A:MET:HG2	1:127:A:GLY:H	2	0.39	0.06	0.39
(1,591)	1:65:A:GLU:HB3	1:61:A:GLN:HG2	2	0.35	0.09	0.35
(1,592)	1:61:A:GLN:HG2	1:65:A:GLU:HB3	2	0.35	0.09	0.35
(1,2450)	1:154:A:VAL:HB	1:151:A:ARG:HD2	2	0.34	0.2	0.34
(1,2451)	1:151:A:ARG:HD2	1:154:A:VAL:HB	2	0.34	0.2	0.34
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD21	2	0.34	0.01	0.34
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD22	2	0.34	0.01	0.34
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD23	2	0.34	0.01	0.34
(1,2047)	1:134:A:LEU:HD21	1:137:A:SER:HB2	2	0.34	0.01	0.34
(1,2047)	1:134:A:LEU:HD22	1:137:A:SER:HB2	2	0.34	0.01	0.34
(1,2047)	1:134:A:LEU:HD23	1:137:A:SER:HB2	2	0.34	0.01	0.34
(1,4020)	1:204:A:LYS:HA	1:207:A:LYS:HB2	2	0.33	0.01	0.33
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG21	2	0.3	0.08	0.3
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG22	2	0.3	0.08	0.3
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG23	2	0.3	0.08	0.3
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG21	2	0.3	0.08	0.3
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG22	2	0.3	0.08	0.3
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG23	2	0.3	0.08	0.3
(1,1676)	1:112:A:VAL:HG21	1:122:A:TYR:HE1	2	0.3	0.08	0.3
(1,1676)	1:112:A:VAL:HG21	1:122:A:TYR:HE2	2	0.3	0.08	0.3
(1,1676)	1:112:A:VAL:HG22	1:122:A:TYR:HE1	2	0.3	0.08	0.3
(1,1676)	1:112:A:VAL:HG22	1:122:A:TYR:HE2	2	0.3	0.08	0.3
(1,1676)	1:112:A:VAL:HG23	1:122:A:TYR:HE1	2	0.3	0.08	0.3
(1,1676)	1:112:A:VAL:HG23	1:122:A:TYR:HE2	2	0.3	0.08	0.3
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE1	2	0.3	0.08	0.3
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE2	2	0.3	0.08	0.3
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE3	2	0.3	0.08	0.3
(1,3524)	1:194:A:MET:HE1	1:84:A:LEU:HG	2	0.3	0.08	0.3
(1,3524)	1:194:A:MET:HE2	1:84:A:LEU:HG	2	0.3	0.08	0.3
(1,3524)	1:194:A:MET:HE3	1:84:A:LEU:HG	2	0.3	0.08	0.3
(1,2273)	1:143:A:GLY:HA3	1:146:A:LEU:H	2	0.3	0.1	0.3
(1,2726)	1:165:A:PHE:HE1	1:137:A:SER:H	2	0.3	0.02	0.3
(1,2726)	1:165:A:PHE:HE2	1:137:A:SER:H	2	0.3	0.02	0.3
(1,570)	1:64:A:ARG:HD2	1:61:A:GLN:H	2	0.3	0.12	0.3
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG21	2	0.29	0.13	0.29
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG22	2	0.29	0.13	0.29
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG23	2	0.29	0.13	0.29
(1,2689)	1:163:A:VAL:HG21	1:161:A:ARG:HG2	2	0.29	0.13	0.29
(1,2689)	1:163:A:VAL:HG22	1:161:A:ARG:HG2	2	0.29	0.13	0.29
(1,2689)	1:163:A:VAL:HG23	1:161:A:ARG:HG2	2	0.29	0.13	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,619)	1:66:A:ASN:HB2	1:63:A:ARG:HA	2	0.28	0.02	0.28
(1,1801)	1:124:A:MET:HE1	1:125:A:LEU:H	2	0.28	0.01	0.28
(1,1801)	1:124:A:MET:HE2	1:125:A:LEU:H	2	0.28	0.01	0.28
(1,1801)	1:124:A:MET:HE3	1:125:A:LEU:H	2	0.28	0.01	0.28
(1,1685)	1:114:A:VAL:HA	1:122:A:TYR:H	2	0.26	0.03	0.26
(1,3937)	1:204:A:LYS:HE2	1:201:A:THR:H	2	0.26	0.14	0.26
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD21	2	0.24	0.08	0.24
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD22	2	0.24	0.08	0.24
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD23	2	0.24	0.08	0.24
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD21	2	0.24	0.08	0.24
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD22	2	0.24	0.08	0.24
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD23	2	0.24	0.08	0.24
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD21	2	0.24	0.08	0.24
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD22	2	0.24	0.08	0.24
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD23	2	0.24	0.08	0.24
(1,780)	1:73:A:THR:HB	1:73:A:THR:HA	2	0.24	0.0	0.24
(1,781)	1:73:A:THR:HA	1:73:A:THR:HB	2	0.24	0.0	0.24
(1,1420)	1:106:A:THR:HB	1:106:A:THR:HA	2	0.24	0.0	0.24
(1,1421)	1:106:A:THR:HA	1:106:A:THR:HB	2	0.24	0.0	0.24
(1,3953)	1:204:A:LYS:HB2	1:204:A:LYS:HA	2	0.24	0.0	0.24
(1,209)	1:52:A:SER:HB2	1:52:A:SER:HA	2	0.24	0.0	0.24
(1,210)	1:52:A:SER:HA	1:52:A:SER:HB2	2	0.24	0.0	0.24
(1,2178)	1:144:A:ASP:HA	1:144:A:ASP:HB3	2	0.23	0.0	0.23
(1,5050)	1:214:A:ILE:HD11	1:242:A:TRP:HE1	2	0.23	0.07	0.23
(1,5050)	1:214:A:ILE:HD12	1:242:A:TRP:HE1	2	0.23	0.07	0.23
(1,5050)	1:214:A:ILE:HD13	1:242:A:TRP:HE1	2	0.23	0.07	0.23
(1,2646)	1:161:A:ARG:HB3	1:161:A:ARG:HA	2	0.22	0.04	0.22
(1,2647)	1:161:A:ARG:HA	1:161:A:ARG:HB3	2	0.22	0.04	0.22
(1,3356)	1:154:A:VAL:HG11	1:189:A:ALA:H	2	0.22	0.12	0.22
(1,3356)	1:154:A:VAL:HG12	1:189:A:ALA:H	2	0.22	0.12	0.22
(1,3356)	1:154:A:VAL:HG13	1:189:A:ALA:H	2	0.22	0.12	0.22
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG11	2	0.22	0.04	0.22
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG12	2	0.22	0.04	0.22
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG13	2	0.22	0.04	0.22
(1,1694)	1:121:A:ARG:HG3	1:122:A:TYR:H	2	0.21	0.04	0.21
(1,1928)	1:131:A:GLU:HB2	1:131:A:GLU:HA	2	0.21	0.01	0.21
(1,4181)	1:211:A:ASP:HB3	1:211:A:ASP:HA	2	0.21	0.02	0.21
(1,4182)	1:211:A:ASP:HA	1:211:A:ASP:HB3	2	0.21	0.02	0.21
(1,3226)	1:183:A:HIS:HD2	1:183:A:HIS:H	2	0.2	0.02	0.2
(1,4206)	1:207:A:LYS:HE3	1:212:A:TYR:HD1	2	0.2	0.03	0.2
(1,4206)	1:207:A:LYS:HE3	1:212:A:TYR:HD2	2	0.2	0.03	0.2
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG11	2	0.2	0.06	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG12	2	0.2	0.06	0.2
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG13	2	0.2	0.06	0.2
(1,1402)	1:102:A:VAL:HG11	1:106:A:THR:HB	2	0.2	0.06	0.2
(1,1402)	1:102:A:VAL:HG12	1:106:A:THR:HB	2	0.2	0.06	0.2
(1,1402)	1:102:A:VAL:HG13	1:106:A:THR:HB	2	0.2	0.06	0.2
(1,1527)	1:88:A:VAL:HG11	1:114:A:VAL:H	2	0.2	0.04	0.2
(1,1527)	1:88:A:VAL:HG12	1:114:A:VAL:H	2	0.2	0.04	0.2
(1,1527)	1:88:A:VAL:HG13	1:114:A:VAL:H	2	0.2	0.04	0.2
(1,4127)	1:208:A:LEU:HB3	1:208:A:LEU:HA	2	0.2	0.0	0.2
(1,1458)	1:104:A:TYR:HA	1:109:A:TYR:H	2	0.2	0.05	0.2
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG21	2	0.2	0.08	0.2
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG22	2	0.2	0.08	0.2
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG23	2	0.2	0.08	0.2
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD11	2	0.2	0.02	0.2
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD12	2	0.2	0.02	0.2
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD13	2	0.2	0.02	0.2
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD11	2	0.2	0.02	0.2
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD12	2	0.2	0.02	0.2
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD13	2	0.2	0.02	0.2
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD11	2	0.2	0.02	0.2
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD12	2	0.2	0.02	0.2
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD13	2	0.2	0.02	0.2
(1,3866)	1:200:A:LEU:HD21	1:199:A:ARG:H	2	0.2	0.02	0.2
(1,3866)	1:200:A:LEU:HD22	1:199:A:ARG:H	2	0.2	0.02	0.2
(1,3866)	1:200:A:LEU:HD23	1:199:A:ARG:H	2	0.2	0.02	0.2
(1,5180)	1:244:A:SER:HA	1:242:A:TRP:HE1	2	0.2	0.02	0.2
(1,846)	1:72:A:THR:HB	1:76:A:PHE:H	2	0.19	0.04	0.19
(1,1742)	1:124:A:MET:HE1	1:101:A:SER:HB2	2	0.19	0.0	0.19
(1,1742)	1:124:A:MET:HE2	1:101:A:SER:HB2	2	0.19	0.0	0.19
(1,1742)	1:124:A:MET:HE3	1:101:A:SER:HB2	2	0.19	0.0	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE1	2	0.19	0.0	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE2	2	0.19	0.0	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE3	2	0.19	0.0	0.19
(1,3210)	1:82:A:VAL:HG21	1:183:A:HIS:HD2	2	0.19	0.04	0.19
(1,3210)	1:82:A:VAL:HG22	1:183:A:HIS:HD2	2	0.19	0.04	0.19
(1,3210)	1:82:A:VAL:HG23	1:183:A:HIS:HD2	2	0.19	0.04	0.19
(1,3493)	1:176:A:ALA:HA	1:193:A:VAL:H	2	0.18	0.04	0.18
(1,2853)	1:171:A:ILE:HG21	1:64:A:ARG:HD2	2	0.18	0.06	0.18
(1,2853)	1:171:A:ILE:HG22	1:64:A:ARG:HD2	2	0.18	0.06	0.18
(1,2853)	1:171:A:ILE:HG23	1:64:A:ARG:HD2	2	0.18	0.06	0.18
(1,3028)	1:174:A:ALA:H	1:161:A:ARG:H	2	0.18	0.06	0.18
(1,3029)	1:161:A:ARG:H	1:174:A:ALA:H	2	0.18	0.06	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,627)	1:66:A:ASN:H	1:65:A:GLU:H	2	0.18	0.04	0.18
(1,628)	1:65:A:GLU:H	1:66:A:ASN:H	2	0.18	0.04	0.18
(1,920)	1:80:A:ALA:H	1:81:A:TYR:H	2	0.18	0.03	0.18
(1,921)	1:81:A:TYR:H	1:80:A:ALA:H	2	0.18	0.03	0.18
(1,1200)	1:97:A:ASN:HB2	1:97:A:ASN:HA	2	0.18	0.04	0.18
(1,1201)	1:97:A:ASN:HA	1:97:A:ASN:HB2	2	0.18	0.04	0.18
(1,1217)	1:98:A:ASN:HB3	1:98:A:ASN:HA	2	0.18	0.0	0.18
(1,1218)	1:98:A:ASN:HA	1:98:A:ASN:HB3	2	0.18	0.0	0.18
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD11	2	0.18	0.0	0.18
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD12	2	0.18	0.0	0.18
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD13	2	0.18	0.0	0.18
(1,1246)	1:99:A:LEU:HD11	1:93:A:ALA:HA	2	0.18	0.0	0.18
(1,1246)	1:99:A:LEU:HD12	1:93:A:ALA:HA	2	0.18	0.0	0.18
(1,1246)	1:99:A:LEU:HD13	1:93:A:ALA:HA	2	0.18	0.0	0.18
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD21	2	0.18	0.03	0.18
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD22	2	0.18	0.03	0.18
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD23	2	0.18	0.03	0.18
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD21	2	0.18	0.03	0.18
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD22	2	0.18	0.03	0.18
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD23	2	0.18	0.03	0.18
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD21	2	0.18	0.03	0.18
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD22	2	0.18	0.03	0.18
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD23	2	0.18	0.03	0.18
(1,1714)	1:114:A:VAL:HG21	1:123:A:ALA:H	2	0.18	0.0	0.18
(1,1714)	1:114:A:VAL:HG22	1:123:A:ALA:H	2	0.18	0.0	0.18
(1,1714)	1:114:A:VAL:HG23	1:123:A:ALA:H	2	0.18	0.0	0.18
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB1	2	0.18	0.03	0.18
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB2	2	0.18	0.03	0.18
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB3	2	0.18	0.03	0.18
(1,1899)	1:123:A:ALA:HB1	1:130:A:SER:HB2	2	0.18	0.03	0.18
(1,1899)	1:123:A:ALA:HB2	1:130:A:SER:HB2	2	0.18	0.03	0.18
(1,1899)	1:123:A:ALA:HB3	1:130:A:SER:HB2	2	0.18	0.03	0.18
(2,20)	1:165:A:PHE:N	1:168:A:ALA:O	2	0.18	0.0	0.18
(1,1813)	1:104:A:TYR:HD1	1:126:A:GLU:H	2	0.17	0.07	0.17
(1,1813)	1:104:A:TYR:HD2	1:126:A:GLU:H	2	0.17	0.07	0.17
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD21	2	0.17	0.01	0.17
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD22	2	0.17	0.01	0.17
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD23	2	0.17	0.01	0.17
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD21	2	0.17	0.01	0.17
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD22	2	0.17	0.01	0.17
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD23	2	0.17	0.01	0.17
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD21	2	0.17	0.01	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD22	2	0.17	0.01	0.17
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD23	2	0.17	0.01	0.17
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG21	2	0.16	0.04	0.16
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG22	2	0.16	0.04	0.16
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG23	2	0.16	0.04	0.16
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG21	2	0.16	0.04	0.16
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG22	2	0.16	0.04	0.16
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG23	2	0.16	0.04	0.16
(1,3171)	1:180:A:THR:HG21	1:81:A:TYR:HD1	2	0.16	0.04	0.16
(1,3171)	1:180:A:THR:HG21	1:81:A:TYR:HD2	2	0.16	0.04	0.16
(1,3171)	1:180:A:THR:HG22	1:81:A:TYR:HD1	2	0.16	0.04	0.16
(1,3171)	1:180:A:THR:HG22	1:81:A:TYR:HD2	2	0.16	0.04	0.16
(1,3171)	1:180:A:THR:HG23	1:81:A:TYR:HD1	2	0.16	0.04	0.16
(1,3171)	1:180:A:THR:HG23	1:81:A:TYR:HD2	2	0.16	0.04	0.16
(1,3478)	1:193:A:VAL:HG21	1:149:A:ALA:H	2	0.16	0.04	0.16
(1,3478)	1:193:A:VAL:HG22	1:149:A:ALA:H	2	0.16	0.04	0.16
(1,3478)	1:193:A:VAL:HG23	1:149:A:ALA:H	2	0.16	0.04	0.16
(1,4033)	1:204:A:LYS:HA	1:207:A:LYS:H	2	0.16	0.06	0.16
(1,1888)	1:129:A:LEU:HA	1:129:A:LEU:HB3	2	0.16	0.05	0.16
(1,3836)	1:200:A:LEU:HD21	1:63:A:ARG:HE	2	0.16	0.05	0.16
(1,3836)	1:200:A:LEU:HD22	1:63:A:ARG:HE	2	0.16	0.05	0.16
(1,3836)	1:200:A:LEU:HD23	1:63:A:ARG:HE	2	0.16	0.05	0.16
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG11	2	0.15	0.04	0.15
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG12	2	0.15	0.04	0.15
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG13	2	0.15	0.04	0.15
(1,3592)	1:195:A:VAL:HG11	1:149:A:ALA:HA	2	0.15	0.04	0.15
(1,3592)	1:195:A:VAL:HG12	1:149:A:ALA:HA	2	0.15	0.04	0.15
(1,3592)	1:195:A:VAL:HG13	1:149:A:ALA:HA	2	0.15	0.04	0.15
(1,1278)	1:97:A:ASN:HA	1:101:A:SER:H	2	0.15	0.02	0.15
(1,2442)	1:152:A:ALA:H	1:153:A:ALA:H	2	0.14	0.03	0.14
(1,2443)	1:153:A:ALA:H	1:152:A:ALA:H	2	0.14	0.03	0.14
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB1	2	0.14	0.02	0.14
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB2	2	0.14	0.02	0.14
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB3	2	0.14	0.02	0.14
(1,508)	1:59:A:ALA:HB1	1:62:A:ASN:HB3	2	0.14	0.02	0.14
(1,508)	1:59:A:ALA:HB2	1:62:A:ASN:HB3	2	0.14	0.02	0.14
(1,508)	1:59:A:ALA:HB3	1:62:A:ASN:HB3	2	0.14	0.02	0.14
(1,2770)	1:164:A:ASP:HA	1:168:A:ALA:H	2	0.14	0.02	0.14
(1,891)	1:79:A:ASP:H	1:78:A:THR:H	2	0.14	0.04	0.14
(1,4091)	1:208:A:LEU:HD21	1:63:A:ARG:H	2	0.14	0.02	0.14
(1,4091)	1:208:A:LEU:HD22	1:63:A:ARG:H	2	0.14	0.02	0.14
(1,4091)	1:208:A:LEU:HD23	1:63:A:ARG:H	2	0.14	0.02	0.14

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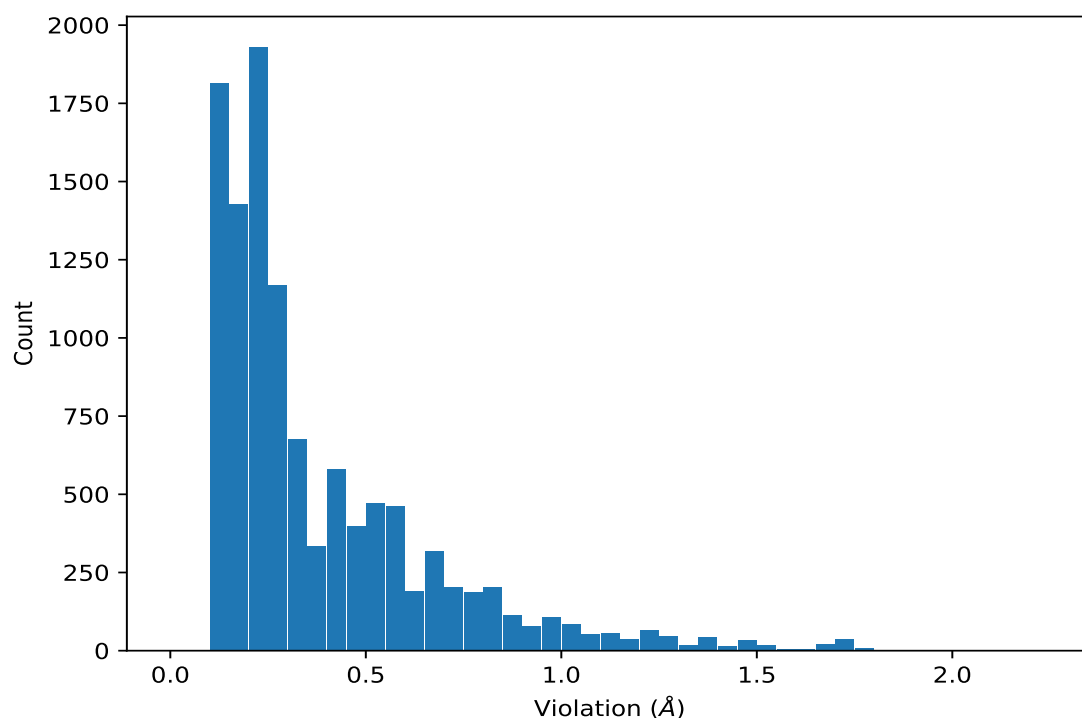
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4150)	1:207:A:LYS:HA	1:210:A:GLY:H	2	0.14	0.02	0.14
(1,2126)	1:140:A:ALA:HA	1:140:A:ALA:H	2	0.13	0.01	0.13
(1,3455)	1:115:A:ILE:HB	1:193:A:VAL:H	2	0.13	0.0	0.13
(1,4012)	1:206:A:ALA:H	1:205:A:LEU:H	2	0.13	0.02	0.13
(1,4013)	1:205:A:LEU:H	1:206:A:ALA:H	2	0.13	0.02	0.13
(1,4565)	1:227:A:ASP:HA	1:227:A:ASP:H	2	0.13	0.01	0.13
(1,4737)	1:233:A:LEU:HA	1:233:A:LEU:H	2	0.13	0.02	0.13
(1,5079)	1:229:A:GLU:HA	1:242:A:TRP:HZ2	2	0.13	0.0	0.13
(2,8)	1:116:A:ASP:N	1:119:A:GLY:O	2	0.13	0.01	0.13
(1,160)	1:50:A:GLU:HB3	1:50:A:GLU:HA	2	0.12	0.02	0.12
(1,161)	1:50:A:GLU:HA	1:50:A:GLU:HB3	2	0.12	0.02	0.12
(1,552)	1:62:A:ASN:H	1:63:A:ARG:H	2	0.12	0.0	0.12
(2,2)	1:111:A:GLY:N	1:197:A:VAL:O	2	0.12	0.0	0.12
(1,2423)	1:151:A:ARG:HA	1:152:A:ALA:H	2	0.12	0.02	0.12
(1,1088)	1:90:A:ALA:HA	1:91:A:ASP:H	2	0.12	0.0	0.12
(1,2780)	1:167:A:GLY:HA2	1:168:A:ALA:H	2	0.12	0.0	0.12
(1,3202)	1:182:A:ASP:HA	1:182:A:ASP:H	2	0.12	0.0	0.12
(1,1365)	1:103:A:LEU:H	1:104:A:TYR:H	2	0.11	0.0	0.11
(1,3369)	1:189:A:ALA:HA	1:189:A:ALA:H	2	0.11	0.0	0.11
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB1	2	0.11	0.0	0.11
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB2	2	0.11	0.0	0.11
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB3	2	0.11	0.0	0.11
(1,3383)	1:189:A:ALA:HB1	1:190:A:LYS:HG2	2	0.11	0.0	0.11
(1,3383)	1:189:A:ALA:HB2	1:190:A:LYS:HG2	2	0.11	0.0	0.11
(1,3383)	1:189:A:ALA:HB3	1:190:A:LYS:HG2	2	0.11	0.0	0.11
(1,703)	1:69:A:GLN:HA	1:69:A:GLN:H	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)
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	4	2.23
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	6	1.79
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	6	1.79
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	6	1.79
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	6	1.79
(1,502)	1:58:A:LYS:HG2	1:62:A:ASN:HD22	4	1.77
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	9	1.76
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	9	1.76
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	9	1.76
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	9	1.76
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	6	1.72
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	6	1.72
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	6	1.72
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	6	1.72
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	6	1.72
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	6	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	6	1.72
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	6	1.72
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	6	1.72
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	6	1.72
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	6	1.72
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	6	1.72
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	6	1.72
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	6	1.72
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	6	1.72
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	6	1.72
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	6	1.72
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	6	1.72
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	3	1.71
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	3	1.71
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	3	1.71
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	3	1.71
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	3	1.71
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	3	1.71
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	3	1.71
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	3	1.71
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	3	1.71
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	3	1.71
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	3	1.71
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	3	1.71
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	3	1.71
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	3	1.71
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	3	1.71
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	3	1.71
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	3	1.71
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	3	1.71
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	10	1.7
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	10	1.7
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	10	1.7
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	10	1.7
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	10	1.7
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	10	1.7
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	10	1.7
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	10	1.7
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	10	1.7
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	10	1.7
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	10	1.7
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	10	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	10	1.7
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	10	1.7
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	10	1.7
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	10	1.7
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	10	1.7
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	10	1.7
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	5	1.66
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	5	1.66
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	4	1.63
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	4	1.63
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	4	1.63
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	4	1.63
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	4	1.6
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	4	1.6
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	3	1.59
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	3	1.59
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	3	1.59
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	3	1.59
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	1	1.52
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	1	1.52
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	1	1.52
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	1	1.52
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	1	1.52
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	1	1.52
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	1	1.52
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	1	1.52
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	1	1.52
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	1	1.52
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	1	1.52
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	1	1.52
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	1	1.52
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	1	1.52
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	1	1.52
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	1	1.52
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	1	1.52
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	1	1.52
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	8	1.47
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	8	1.47
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	8	1.47
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	8	1.47
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	8	1.47
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	8	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	8	1.47
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	8	1.47
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	8	1.47
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	8	1.47
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	8	1.47
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	8	1.47
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	8	1.47
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	8	1.47
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	8	1.47
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	8	1.47
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	8	1.47
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	8	1.47
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	3	1.46
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	3	1.46
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	3	1.46
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	3	1.46
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	3	1.46
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	3	1.46
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	3	1.46
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	3	1.46
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	3	1.46
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	3	1.46
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	3	1.46
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	3	1.46
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	9	1.46
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	9	1.46
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	7	1.46
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	7	1.45
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	7	1.45
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	7	1.45
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	7	1.45
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	7	1.45
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	7	1.45
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	7	1.45
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	7	1.45
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	7	1.45
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	7	1.45
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	7	1.45
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	7	1.45
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	10	1.44
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	10	1.44
(1,1737)	1:99:A:LEU:HD21	1:124:A:MET:HG2	5	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1737)	1:99:A:LEU:HD22	1:124:A:MET:HG2	5	1.4
(1,1737)	1:99:A:LEU:HD23	1:124:A:MET:HG2	5	1.4
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD21	5	1.4
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD22	5	1.4
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD23	5	1.4
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	10	1.4
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	10	1.4
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	5	1.39
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	5	1.39
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	5	1.39
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	5	1.39
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	5	1.39
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	5	1.39
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	5	1.39
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	5	1.39
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	5	1.39
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	5	1.39
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	5	1.39
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	5	1.39
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	5	1.39
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	5	1.39
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	5	1.39
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	5	1.39
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	5	1.39
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	5	1.39
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	5	1.38
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	5	1.38
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	5	1.38
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	5	1.38
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	5	1.38
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	5	1.38
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	5	1.38
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	5	1.38
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	5	1.38
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	5	1.38
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	5	1.38
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	5	1.38
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	8	1.38
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	8	1.38
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	3	1.37
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	3	1.37
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	7	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	7	1.36
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	2	1.33
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	2	1.33
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	7	1.33
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	7	1.33
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	2	1.31
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	2	1.31
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	2	1.31
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	2	1.31
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	2	1.31
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	2	1.31
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	2	1.31
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	2	1.31
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	2	1.31
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	2	1.31
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	2	1.31
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	2	1.31
(1,2453)	1:151:A:ARG:HG2	1:154:A:VAL:HB	1	1.3
(1,2452)	1:154:A:VAL:HB	1:151:A:ARG:HG2	1	1.3
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	7	1.29
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	7	1.29
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	7	1.29
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	7	1.29
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	7	1.29
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	7	1.29
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	2	1.29
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	2	1.29
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	2	1.29
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	2	1.29
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	2	1.28
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	2	1.28
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	2	1.28
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	2	1.28
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	2	1.28
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	2	1.28
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	2	1.28
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	2	1.28
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	2	1.28
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	2	1.28
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	2	1.28
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	2	1.28
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	2	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	2	1.28
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	2	1.28
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	2	1.28
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	2	1.28
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	2	1.28
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	6	1.26
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	6	1.26
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	6	1.26
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	6	1.26
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	7	1.25
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	7	1.25
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	7	1.25
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	7	1.25
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	6	1.25
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	6	1.25
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	6	1.25
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	6	1.25
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	7	1.25
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	7	1.25
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	7	1.25
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	7	1.25
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	9	1.25
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	9	1.25
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	2	1.24
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	2	1.24
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	2	1.24
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	2	1.24
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	2	1.24
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	2	1.24
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	9	1.24
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	9	1.24
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	9	1.24
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	9	1.24
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	9	1.24
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	9	1.24
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	9	1.24
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	9	1.24
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	9	1.24
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	9	1.24
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	9	1.24
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	9	1.24
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	9	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	9	1.24
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	9	1.24
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	9	1.24
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	9	1.24
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	9	1.24
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	5	1.24
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	5	1.24
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	5	1.24
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	5	1.24
(1,4478)	1:220:A:LEU:HD21	1:218:A:HIS:HD2	4	1.23
(1,4478)	1:220:A:LEU:HD22	1:218:A:HIS:HD2	4	1.23
(1,4478)	1:220:A:LEU:HD23	1:218:A:HIS:HD2	4	1.23
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD21	4	1.23
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD22	4	1.23
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD23	4	1.23
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	6	1.23
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	6	1.23
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	6	1.23
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	6	1.23
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	6	1.23
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	6	1.23
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	1	1.23
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	1	1.23
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	10	1.23
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	10	1.23
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	1	1.23
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	1	1.23
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	10	1.23
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	10	1.23
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	8	1.23
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	8	1.23
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	9	1.22
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	9	1.22
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	9	1.22
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	9	1.22
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	9	1.22
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	9	1.22
(1,1967)	1:133:A:SER:HB2	1:120:A:THR:H	10	1.22
(1,4568)	1:228:A:LYS:HE3	1:218:A:HIS:HD2	5	1.21
(1,4567)	1:218:A:HIS:HD2	1:228:A:LYS:HE3	5	1.21
(1,1737)	1:99:A:LEU:HD21	1:124:A:MET:HG2	7	1.21
(1,1737)	1:99:A:LEU:HD22	1:124:A:MET:HG2	7	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1737)	1:99:A:LEU:HD23	1:124:A:MET:HG2	7	1.21
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD21	7	1.21
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD22	7	1.21
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD23	7	1.21
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	7	1.21
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	7	1.21
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	3	1.2
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	3	1.2
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	3	1.2
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	3	1.2
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	3	1.2
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	3	1.2
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	3	1.2
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	3	1.2
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	3	1.2
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	10	1.19
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	10	1.19
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	4	1.17
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	4	1.17
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	4	1.17
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	4	1.17
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	4	1.17
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	4	1.17
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	9	1.17
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	9	1.17
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	9	1.17
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	9	1.17
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	9	1.17
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	9	1.17
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	2	1.16
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	2	1.16
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	2	1.16
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	2	1.16
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	6	1.16
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	6	1.16
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	6	1.16
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	6	1.16
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	6	1.16
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	6	1.16
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	7	1.16
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	7	1.16
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	7	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	7	1.16
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	2	1.15
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	2	1.15
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	2	1.15
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	2	1.15
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	2	1.15
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	2	1.15
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	9	1.15
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	9	1.15
(1,5068)	1:242:A:TRP:HB2	1:218:A:HIS:HD2	10	1.14
(1,5067)	1:218:A:HIS:HD2	1:242:A:TRP:HB2	10	1.14
(1,4474)	1:220:A:LEU:HA	1:218:A:HIS:HD2	4	1.14
(1,4473)	1:218:A:HIS:HD2	1:220:A:LEU:HA	4	1.14
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	4	1.14
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	4	1.14
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	4	1.14
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	4	1.14
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	4	1.14
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	4	1.14
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	4	1.14
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	4	1.14
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	4	1.14
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	4	1.14
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	4	1.14
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	4	1.14
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	4	1.14
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	4	1.14
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	4	1.14
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	4	1.14
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	4	1.14
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	4	1.14
(1,1842)	1:124:A:MET:HG3	1:128:A:GLU:H	3	1.14
(1,4570)	1:220:A:LEU:HD11	1:228:A:LYS:HD2	3	1.13
(1,4570)	1:220:A:LEU:HD12	1:228:A:LYS:HD2	3	1.13
(1,4570)	1:220:A:LEU:HD13	1:228:A:LYS:HD2	3	1.13
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD11	3	1.13
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD12	3	1.13
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD13	3	1.13
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	3	1.13
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	3	1.13
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	3	1.13
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	3	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1842)	1:124:A:MET:HG3	1:128:A:GLU:H	8	1.12
(1,1842)	1:124:A:MET:HG3	1:128:A:GLU:H	10	1.12
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	6	1.12
(1,1290)	1:102:A:VAL:HG11	1:97:A:ASN:HD22	9	1.11
(1,1290)	1:102:A:VAL:HG12	1:97:A:ASN:HD22	9	1.11
(1,1290)	1:102:A:VAL:HG13	1:97:A:ASN:HD22	9	1.11
(1,4568)	1:228:A:LYS:HE3	1:218:A:HIS:HD2	6	1.1
(1,4567)	1:218:A:HIS:HD2	1:228:A:LYS:HE3	6	1.1
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	2	1.1
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	2	1.1
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	2	1.1
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	2	1.1
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	9	1.1
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	9	1.1
(1,706)	1:69:A:GLN:HE21	1:69:A:GLN:H	9	1.09
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	2	1.09
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	5	1.09
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	8	1.08
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	8	1.08
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	8	1.08
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	8	1.08
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	8	1.08
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	8	1.08
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	10	1.08
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	10	1.08
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	8	1.08
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	8	1.08
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	10	1.08
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	10	1.08
(1,199)	1:48:A:ALA:HB1	1:52:A:SER:HB3	8	1.08
(1,199)	1:48:A:ALA:HB2	1:52:A:SER:HB3	8	1.08
(1,199)	1:48:A:ALA:HB3	1:52:A:SER:HB3	8	1.08
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB1	8	1.08
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB2	8	1.08
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB3	8	1.08
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	10	1.07
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	10	1.07
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	10	1.07
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	10	1.07
(1,706)	1:69:A:GLN:HE21	1:69:A:GLN:H	3	1.07
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	2	1.07
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	2	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4887)	1:239:A:ARG:HG3	1:230:A:SER:HB2	9	1.06
(1,4886)	1:230:A:SER:HB2	1:239:A:ARG:HG3	9	1.06
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	4	1.06
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	4	1.06
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB1	7	1.06
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB2	7	1.06
(1,2196)	1:145:A:ILE:HD11	1:135:A:ALA:HB3	7	1.06
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB1	7	1.06
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB2	7	1.06
(1,2196)	1:145:A:ILE:HD12	1:135:A:ALA:HB3	7	1.06
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB1	7	1.06
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB2	7	1.06
(1,2196)	1:145:A:ILE:HD13	1:135:A:ALA:HB3	7	1.06
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD11	7	1.06
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD12	7	1.06
(1,2195)	1:135:A:ALA:HB1	1:145:A:ILE:HD13	7	1.06
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD11	7	1.06
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD12	7	1.06
(1,2195)	1:135:A:ALA:HB2	1:145:A:ILE:HD13	7	1.06
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD11	7	1.06
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD12	7	1.06
(1,2195)	1:135:A:ALA:HB3	1:145:A:ILE:HD13	7	1.06
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	6	1.06
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	6	1.06
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	6	1.04
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	6	1.04
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	6	1.04
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	6	1.04
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	6	1.04
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	6	1.04
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD11	8	1.04
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD12	8	1.04
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD13	8	1.04
(1,3066)	1:177:A:ILE:HD11	1:75:A:SER:HB3	8	1.04
(1,3066)	1:177:A:ILE:HD12	1:75:A:SER:HB3	8	1.04
(1,3066)	1:177:A:ILE:HD13	1:75:A:SER:HB3	8	1.04
(1,4474)	1:220:A:LEU:HA	1:218:A:HIS:HD2	2	1.03
(1,4473)	1:218:A:HIS:HD2	1:220:A:LEU:HA	2	1.03
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	9	1.03
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	9	1.03
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	9	1.03
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	7	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	7	1.03
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	7	1.03
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	7	1.03
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	7	1.03
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	7	1.03
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	10	1.03
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	10	1.03
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	10	1.03
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	8	1.03
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	8	1.03
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	8	1.03
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	8	1.03
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	8	1.03
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	8	1.03
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	8	1.03
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	8	1.03
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	8	1.03
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	8	1.03
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	8	1.03
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	8	1.03
(1,887)	1:79:A:ASP:H	1:77:A:TRP:HE1	2	1.03
(1,886)	1:77:A:TRP:HE1	1:79:A:ASP:H	2	1.03
(1,4478)	1:220:A:LEU:HD21	1:218:A:HIS:HD2	9	1.02
(1,4478)	1:220:A:LEU:HD22	1:218:A:HIS:HD2	9	1.02
(1,4478)	1:220:A:LEU:HD23	1:218:A:HIS:HD2	9	1.02
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD21	9	1.02
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD22	9	1.02
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD23	9	1.02
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	4	1.02
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	4	1.02
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	6	1.01
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	6	1.01
(1,4025)	1:207:A:LYS:HD2	1:204:A:LYS:HB2	4	1.01
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	6	1.01
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	6	1.01
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	6	1.01
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	3	1.01
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	3	1.01
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	3	1.01
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	3	1.01
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	3	1.01
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	3	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	1	1.01
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	1	1.01
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	1	1.01
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	5	1.01
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	5	1.01
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	5	1.01
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	1	1.01
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	1	1.01
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	1	1.01
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	5	1.01
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	5	1.01
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	5	1.01
(1,1842)	1:124:A:MET:HG3	1:128:A:GLU:H	4	1.01
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	10	1.01
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	10	1.01
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	2	1.0
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	2	1.0
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	2	1.0
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	10	1.0
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	10	1.0
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	10	1.0
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	10	1.0
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	10	1.0
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	10	1.0
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	8	1.0
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	8	1.0
(1,4478)	1:220:A:LEU:HD21	1:218:A:HIS:HD2	2	0.99
(1,4478)	1:220:A:LEU:HD22	1:218:A:HIS:HD2	2	0.99
(1,4478)	1:220:A:LEU:HD23	1:218:A:HIS:HD2	2	0.99
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD21	2	0.99
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD22	2	0.99
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD23	2	0.99
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	4	0.99
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	4	0.99
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	4	0.99
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	4	0.99
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	4	0.99
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	4	0.99
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	5	0.99
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	5	0.99
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	5	0.99
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	5	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	4	0.99
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	4	0.99
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	4	0.99
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	9	0.99
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	9	0.99
(1,5068)	1:242:A:TRP:HB2	1:218:A:HIS:HD2	6	0.98
(1,5067)	1:218:A:HIS:HD2	1:242:A:TRP:HB2	6	0.98
(1,4637)	1:56:A:VAL:HG21	1:231:A:LEU:HB2	9	0.98
(1,4637)	1:56:A:VAL:HG22	1:231:A:LEU:HB2	9	0.98
(1,4637)	1:56:A:VAL:HG23	1:231:A:LEU:HB2	9	0.98
(1,4636)	1:231:A:LEU:HB2	1:56:A:VAL:HG21	9	0.98
(1,4636)	1:231:A:LEU:HB2	1:56:A:VAL:HG22	9	0.98
(1,4636)	1:231:A:LEU:HB2	1:56:A:VAL:HG23	9	0.98
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	7	0.98
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	7	0.98
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	7	0.98
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	7	0.98
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	7	0.98
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	7	0.98
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	9	0.98
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	10	0.98
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	10	0.98
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	10	0.98
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	10	0.98
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	10	0.98
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	10	0.98
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	10	0.98
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	10	0.98
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	10	0.98
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	10	0.98
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	10	0.98
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	10	0.98
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	1	0.98
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	1	0.98
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	1	0.98
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	1	0.98
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	1	0.98
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	1	0.98
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD1	3	0.98
(1,1538)	1:115:A:ILE:HG13	1:113:A:PHE:HD2	3	0.98
(1,1537)	1:113:A:PHE:HD1	1:115:A:ILE:HG13	3	0.98
(1,1537)	1:113:A:PHE:HD2	1:115:A:ILE:HG13	3	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5068)	1:242:A:TRP:HB2	1:218:A:HIS:HD2	3	0.97
(1,5067)	1:218:A:HIS:HD2	1:242:A:TRP:HB2	3	0.97
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	8	0.97
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	8	0.97
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	4	0.97
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	4	0.97
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	4	0.97
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	4	0.97
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	4	0.97
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	4	0.97
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	1	0.97
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	1	0.97
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	1	0.97
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	1	0.97
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	1	0.97
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	1	0.97
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	1	0.97
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	1	0.97
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	1	0.97
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	6	0.97
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	6	0.97
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	6	0.97
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	6	0.97
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	6	0.97
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	6	0.97
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	6	0.97
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	6	0.97
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	6	0.97
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	6	0.97
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	6	0.97
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	6	0.97
(1,5068)	1:242:A:TRP:HB2	1:218:A:HIS:HD2	1	0.96
(1,5067)	1:218:A:HIS:HD2	1:242:A:TRP:HB2	1	0.96
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	7	0.96
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	7	0.96
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	6	0.96
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	6	0.96
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	6	0.96
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	6	0.96
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	3	0.96
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	3	0.96
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	3	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	3	0.96
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	3	0.96
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	3	0.96
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	2	0.96
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	2	0.96
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	2	0.96
(1,4570)	1:220:A:LEU:HD11	1:228:A:LYS:HD2	5	0.95
(1,4570)	1:220:A:LEU:HD12	1:228:A:LYS:HD2	5	0.95
(1,4570)	1:220:A:LEU:HD13	1:228:A:LYS:HD2	5	0.95
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD11	5	0.95
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD12	5	0.95
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD13	5	0.95
(1,4568)	1:228:A:LYS:HE3	1:218:A:HIS:HD2	1	0.95
(1,4567)	1:218:A:HIS:HD2	1:228:A:LYS:HE3	1	0.95
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	10	0.94
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	10	0.94
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	10	0.94
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	10	0.94
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	10	0.94
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	10	0.94
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	10	0.94
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	10	0.94
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	10	0.94
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	10	0.94
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	10	0.94
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	10	0.94
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	10	0.94
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	10	0.94
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	10	0.94
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	10	0.94
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	10	0.94
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	10	0.94
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	10	0.94
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	10	0.94
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	10	0.94
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	10	0.94
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	10	0.94
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	10	0.94
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	10	0.94
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	10	0.94
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	10	0.94
(1,310)	1:53:A:HIS:HB3	1:56:A:VAL:HB	9	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3323)	1:188:A:LEU:HD11	1:156:A:GLU:H	6	0.93
(1,3323)	1:188:A:LEU:HD12	1:156:A:GLU:H	6	0.93
(1,3323)	1:188:A:LEU:HD13	1:156:A:GLU:H	6	0.93
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	4	0.93
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	4	0.93
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	3	0.93
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	3	0.93
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	3	0.93
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	3	0.93
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	3	0.93
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	3	0.93
(1,4025)	1:207:A:LYS:HD2	1:204:A:LYS:HB2	1	0.92
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	3	0.92
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	3	0.92
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	7	0.92
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	7	0.92
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	7	0.92
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	5	0.91
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	5	0.91
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	5	0.91
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	5	0.91
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	5	0.91
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	5	0.91
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	3	0.9
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	3	0.9
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	5	0.9
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	5	0.9
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	5	0.9
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	5	0.9
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	5	0.9
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	5	0.9
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD1	3	0.9
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD2	3	0.9
(1,3428)	1:81:A:TYR:HD1	1:192:A:SER:HB2	3	0.9
(1,3428)	1:81:A:TYR:HD2	1:192:A:SER:HB2	3	0.9
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	5	0.9
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	5	0.9
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	4	0.9
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	4	0.9
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	4	0.9
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	4	0.9
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	1	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	1	0.89
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	1	0.89
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	1	0.89
(1,4169)	1:208:A:LEU:HD21	1:211:A:ASP:HB2	9	0.89
(1,4169)	1:208:A:LEU:HD22	1:211:A:ASP:HB2	9	0.89
(1,4169)	1:208:A:LEU:HD23	1:211:A:ASP:HB2	9	0.89
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD21	9	0.89
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD22	9	0.89
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD23	9	0.89
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	8	0.89
(1,706)	1:69:A:GLN:HE21	1:69:A:GLN:H	2	0.89
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	9	0.88
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	9	0.88
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	3	0.88
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	3	0.88
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	3	0.88
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	3	0.88
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	3	0.88
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	3	0.88
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	3	0.88
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	3	0.88
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	3	0.88
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	3	0.88
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	7	0.88
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	7	0.88
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	7	0.88
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	7	0.88
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	1	0.88
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	1	0.88
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	1	0.88
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	1	0.88
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	1	0.88
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	1	0.88
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	5	0.88
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	5	0.88
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	5	0.88
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	9	0.88
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	9	0.88
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	9	0.88
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD11	10	0.88
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD12	10	0.88
(1,3067)	1:75:A:SER:HB3	1:177:A:ILE:HD13	10	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3066)	1:177:A:ILE:HD11	1:75:A:SER:HB3	10	0.88
(1,3066)	1:177:A:ILE:HD12	1:75:A:SER:HB3	10	0.88
(1,3066)	1:177:A:ILE:HD13	1:75:A:SER:HB3	10	0.88
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	10	0.88
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	10	0.88
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	10	0.88
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	10	0.88
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	10	0.88
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	10	0.88
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	10	0.88
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	10	0.88
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	10	0.88
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	10	0.88
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	10	0.88
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	10	0.88
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	10	0.88
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	10	0.88
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	10	0.88
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	10	0.88
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	10	0.88
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	10	0.88
(1,1737)	1:99:A:LEU:HD21	1:124:A:MET:HG2	2	0.88
(1,1737)	1:99:A:LEU:HD22	1:124:A:MET:HG2	2	0.88
(1,1737)	1:99:A:LEU:HD23	1:124:A:MET:HG2	2	0.88
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD21	2	0.88
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD22	2	0.88
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD23	2	0.88
(1,867)	1:77:A:TRP:H	1:76:A:PHE:H	8	0.88
(1,866)	1:76:A:PHE:H	1:77:A:TRP:H	8	0.88
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	3	0.88
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	3	0.88
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	3	0.88
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	3	0.88
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	3	0.88
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	3	0.88
(1,706)	1:69:A:GLN:HE21	1:69:A:GLN:H	1	0.88
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	3	0.87
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	3	0.87
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	3	0.87
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	3	0.87
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	4	0.87
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	10	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	10	0.87
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	10	0.87
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	10	0.87
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	10	0.87
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	10	0.87
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	8	0.87
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	8	0.87
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	8	0.87
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	8	0.87
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	8	0.87
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	8	0.87
(1,4474)	1:220:A:LEU:HA	1:218:A:HIS:HD2	5	0.86
(1,4473)	1:218:A:HIS:HD2	1:220:A:LEU:HA	5	0.86
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	3	0.86
(1,2906)	1:140:A:ALA:HB1	1:172:A:LEU:HG	4	0.86
(1,2906)	1:140:A:ALA:HB2	1:172:A:LEU:HG	4	0.86
(1,2906)	1:140:A:ALA:HB3	1:172:A:LEU:HG	4	0.86
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB1	4	0.86
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB2	4	0.86
(1,2905)	1:172:A:LEU:HG	1:140:A:ALA:HB3	4	0.86
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	10	0.86
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	10	0.86
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	9	0.86
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	9	0.86
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	9	0.86
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	9	0.86
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	9	0.86
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	9	0.86
(1,706)	1:69:A:GLN:HE21	1:69:A:GLN:H	7	0.86
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	7	0.85
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	1	0.85
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	9	0.85
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	9	0.85
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	9	0.85
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	9	0.85
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	9	0.85
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	9	0.85
(1,2934)	1:163:A:VAL:HG11	1:172:A:LEU:HG	8	0.85
(1,2934)	1:163:A:VAL:HG12	1:172:A:LEU:HG	8	0.85
(1,2934)	1:163:A:VAL:HG13	1:172:A:LEU:HG	8	0.85
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG11	8	0.85
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG12	8	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2933)	1:172:A:LEU:HG	1:163:A:VAL:HG13	8	0.85
(1,2028)	1:136:A:ASP:HB2	1:132:A:ARG:HG3	3	0.85
(1,2027)	1:132:A:ARG:HG3	1:136:A:ASP:HB2	3	0.85
(1,5068)	1:242:A:TRP:HB2	1:218:A:HIS:HD2	7	0.84
(1,5067)	1:218:A:HIS:HD2	1:242:A:TRP:HB2	7	0.84
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	1	0.84
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	1	0.84
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	10	0.84
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	10	0.84
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	8	0.84
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	8	0.84
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	8	0.84
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	8	0.84
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	10	0.84
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	9	0.84
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	9	0.84
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	9	0.84
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	9	0.84
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	9	0.84
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	9	0.84
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	9	0.84
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	9	0.84
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	9	0.84
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	9	0.84
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	9	0.84
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	9	0.84
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	1	0.84
(1,502)	1:58:A:LYS:HG2	1:62:A:ASN:HD22	7	0.84
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	9	0.83
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	9	0.83
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	9	0.83
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	9	0.83
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	2	0.83
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	2	0.83
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	2	0.83
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	2	0.83
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	5	0.83
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	6	0.83
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG11	4	0.83
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG12	4	0.83
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG13	4	0.83
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG11	4	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG12	4	0.83
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG13	4	0.83
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG11	4	0.83
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG12	4	0.83
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG13	4	0.83
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD11	4	0.83
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD12	4	0.83
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD13	4	0.83
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD11	4	0.83
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD12	4	0.83
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD13	4	0.83
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD11	4	0.83
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD12	4	0.83
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD13	4	0.83
(1,3397)	1:191:A:ALA:HB1	1:150:A:ARG:HE	3	0.83
(1,3397)	1:191:A:ALA:HB2	1:150:A:ARG:HE	3	0.83
(1,3397)	1:191:A:ALA:HB3	1:150:A:ARG:HE	3	0.83
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	2	0.83
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	2	0.83
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	2	0.83
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	2	0.83
(1,2294)	1:144:A:ASP:HB3	1:147:A:ARG:HB3	3	0.83
(1,2293)	1:147:A:ARG:HB3	1:144:A:ASP:HB3	3	0.83
(1,1737)	1:99:A:LEU:HD21	1:124:A:MET:HG2	9	0.83
(1,1737)	1:99:A:LEU:HD22	1:124:A:MET:HG2	9	0.83
(1,1737)	1:99:A:LEU:HD23	1:124:A:MET:HG2	9	0.83
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD21	9	0.83
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD22	9	0.83
(1,1736)	1:124:A:MET:HG2	1:99:A:LEU:HD23	9	0.83
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	2	0.83
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	2	0.83
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	2	0.83
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	2	0.83
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	6	0.82
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	4	0.82
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	4	0.82
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	4	0.82
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	4	0.82
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	10	0.82
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	10	0.82
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	10	0.82
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	10	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	7	0.82
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	4	0.82
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	4	0.82
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	4	0.82
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	4	0.82
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	4	0.82
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	4	0.82
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	4	0.82
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	4	0.82
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	4	0.82
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	4	0.82
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	4	0.82
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	4	0.82
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	4	0.82
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	4	0.82
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	4	0.82
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	4	0.82
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	4	0.82
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	4	0.82
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	3	0.82
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	3	0.82
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	8	0.82
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	8	0.82
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	8	0.82
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	8	0.82
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	8	0.82
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	8	0.82
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	8	0.82
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	8	0.82
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	8	0.82
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	8	0.82
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	8	0.82
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	8	0.82
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	8	0.82
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	8	0.82
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	8	0.82
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	8	0.82
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	8	0.82
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	8	0.82
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	6	0.82
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	6	0.82
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	6	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	6	0.82
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	6	0.82
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	6	0.82
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	6	0.82
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	6	0.82
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	6	0.82
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	6	0.81
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	6	0.81
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	6	0.81
(1,4478)	1:220:A:LEU:HD21	1:218:A:HIS:HD2	5	0.81
(1,4478)	1:220:A:LEU:HD22	1:218:A:HIS:HD2	5	0.81
(1,4478)	1:220:A:LEU:HD23	1:218:A:HIS:HD2	5	0.81
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD21	5	0.81
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD22	5	0.81
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD23	5	0.81
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	7	0.81
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	7	0.81
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	7	0.81
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	7	0.81
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	7	0.81
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	7	0.81
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	10	0.81
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	10	0.81
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	10	0.81
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	8	0.81
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	2	0.81
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	2	0.81
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	5	0.81
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	7	0.81
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	5	0.81
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	7	0.81
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	4	0.8
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	4	0.8
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	4	0.8
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	4	0.8
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	10	0.8
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	10	0.8
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	10	0.8
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	10	0.8
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	10	0.8
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	10	0.8
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	10	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	8	0.8
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	8	0.8
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	8	0.8
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	8	0.8
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	8	0.8
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	8	0.8
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD21	10	0.8
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD22	10	0.8
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD23	10	0.8
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD21	10	0.8
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD22	10	0.8
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD23	10	0.8
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD21	10	0.8
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD22	10	0.8
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD23	10	0.8
(1,1718)	1:120:A:THR:HG21	1:123:A:ALA:H	3	0.8
(1,1718)	1:120:A:THR:HG22	1:123:A:ALA:H	3	0.8
(1,1718)	1:120:A:THR:HG23	1:123:A:ALA:H	3	0.8
(1,1718)	1:120:A:THR:HG21	1:123:A:ALA:H	7	0.8
(1,1718)	1:120:A:THR:HG22	1:123:A:ALA:H	7	0.8
(1,1718)	1:120:A:THR:HG23	1:123:A:ALA:H	7	0.8
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	10	0.79
(1,5207)	1:48:A:ALA:HB1	1:246:A:ARG:H	7	0.79
(1,5207)	1:48:A:ALA:HB2	1:246:A:ARG:H	7	0.79
(1,5207)	1:48:A:ALA:HB3	1:246:A:ARG:H	7	0.79
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	6	0.79
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	7	0.79
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	7	0.79
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	7	0.79
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	1	0.79
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	1	0.79
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	1	0.79
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	1	0.79
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	2	0.79
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	2	0.79
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	2	0.79
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	2	0.79
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	2	0.79
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	2	0.79
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	2	0.79
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	2	0.79
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	2	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	2	0.79
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	2	0.79
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	2	0.79
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	2	0.79
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	2	0.79
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	2	0.79
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	2	0.79
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	2	0.79
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	2	0.79
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	4	0.79
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	4	0.79
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	4	0.79
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	4	0.79
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	4	0.79
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	4	0.79
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	4	0.79
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	4	0.79
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	4	0.79
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	4	0.79
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	4	0.79
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	4	0.79
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	3	0.79
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	3	0.79
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	3	0.79
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	3	0.79
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	2	0.79
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	2	0.79
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	3	0.78
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	7	0.78
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	7	0.78
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	7	0.78
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	6	0.78
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	6	0.78
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	6	0.78
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	6	0.78
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	6	0.78
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	6	0.78
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	2	0.78
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	2	0.78
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	2	0.78
(1,1063)	1:87:A:ARG:HA	1:89:A:ASP:H	7	0.78
(1,867)	1:77:A:TRP:H	1:76:A:PHE:H	1	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,866)	1:76:A:PHE:H	1:77:A:TRP:H	1	0.78
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	10	0.77
(1,5003)	1:241:A:ALA:HB1	1:228:A:LYS:HD3	5	0.77
(1,5003)	1:241:A:ALA:HB2	1:228:A:LYS:HD3	5	0.77
(1,5003)	1:241:A:ALA:HB3	1:228:A:LYS:HD3	5	0.77
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	6	0.77
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	6	0.77
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	6	0.77
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	6	0.77
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	3	0.77
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	3	0.77
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	3	0.77
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	10	0.77
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	10	0.77
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	10	0.77
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	4	0.77
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	4	0.77
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	4	0.77
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	4	0.77
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	4	0.77
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	4	0.77
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	1	0.77
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	1	0.77
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	1	0.77
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	3	0.77
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	3	0.77
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	3	0.77
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	6	0.77
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	6	0.77
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	6	0.77
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	6	0.77
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	6	0.77
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	6	0.77
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	6	0.77
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	6	0.77
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	6	0.77
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	6	0.77
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	6	0.77
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	6	0.77
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	6	0.77
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	6	0.77
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	6	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	6	0.77
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	6	0.77
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	6	0.77
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	10	0.77
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	10	0.77
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	10	0.77
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	10	0.77
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	10	0.77
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	10	0.77
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	10	0.77
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	10	0.77
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	10	0.77
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	4	0.77
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	4	0.77
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	4	0.77
(1,2267)	1:146:A:LEU:HD21	1:118:A:ARG:HD3	8	0.77
(1,2267)	1:146:A:LEU:HD22	1:118:A:ARG:HD3	8	0.77
(1,2267)	1:146:A:LEU:HD23	1:118:A:ARG:HD3	8	0.77
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD21	8	0.77
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD22	8	0.77
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD23	8	0.77
(1,4478)	1:220:A:LEU:HD21	1:218:A:HIS:HD2	8	0.76
(1,4478)	1:220:A:LEU:HD22	1:218:A:HIS:HD2	8	0.76
(1,4478)	1:220:A:LEU:HD23	1:218:A:HIS:HD2	8	0.76
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD21	8	0.76
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD22	8	0.76
(1,4477)	1:218:A:HIS:HD2	1:220:A:LEU:HD23	8	0.76
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	8	0.76
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	8	0.76
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	8	0.76
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	8	0.76
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	8	0.76
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	8	0.76
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	6	0.76
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	6	0.76
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	6	0.76
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	6	0.76
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	6	0.76
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	6	0.76
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	6	0.76
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	6	0.76
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	6	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	6	0.76
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	6	0.76
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	6	0.76
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	6	0.76
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	6	0.76
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	6	0.76
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	6	0.76
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	6	0.76
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	6	0.76
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	6	0.76
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	6	0.76
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	6	0.76
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	5	0.76
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	1	0.76
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	1	0.76
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	1	0.76
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	3	0.75
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	6	0.75
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	6	0.75
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	6	0.75
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	6	0.75
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	4	0.75
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	4	0.75
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	4	0.75
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD1	5	0.75
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD2	5	0.75
(1,3428)	1:81:A:TYR:HD1	1:192:A:SER:HB2	5	0.75
(1,3428)	1:81:A:TYR:HD2	1:192:A:SER:HB2	5	0.75
(1,2916)	1:145:A:ILE:HG21	1:172:A:LEU:HG	4	0.75
(1,2916)	1:145:A:ILE:HG22	1:172:A:LEU:HG	4	0.75
(1,2916)	1:145:A:ILE:HG23	1:172:A:LEU:HG	4	0.75
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG21	4	0.75
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG22	4	0.75
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG23	4	0.75
(1,2294)	1:144:A:ASP:HB3	1:147:A:ARG:HB3	2	0.75
(1,2293)	1:147:A:ARG:HB3	1:144:A:ASP:HB3	2	0.75
(1,1063)	1:87:A:ARG:HA	1:89:A:ASP:H	10	0.75
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	2	0.75
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	2	0.75
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	9	0.75
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	9	0.75
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	5	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	5	0.74
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	5	0.74
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	6	0.74
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	6	0.74
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	6	0.74
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	8	0.74
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	8	0.74
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	8	0.74
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	8	0.74
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	8	0.74
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	8	0.74
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	1	0.74
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	1	0.74
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	1	0.74
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	8	0.74
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	8	0.74
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	8	0.74
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	9	0.74
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	9	0.74
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD11	8	0.74
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD12	8	0.74
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD13	8	0.74
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD11	8	0.74
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD12	8	0.74
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD13	8	0.74
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD11	8	0.74
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD12	8	0.74
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD13	8	0.74
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE1	8	0.74
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE2	8	0.74
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE3	8	0.74
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE1	8	0.74
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE2	8	0.74
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE3	8	0.74
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE1	8	0.74
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE2	8	0.74
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE3	8	0.74
(1,1524)	1:88:A:VAL:HG21	1:114:A:VAL:HB	8	0.74
(1,1524)	1:88:A:VAL:HG22	1:114:A:VAL:HB	8	0.74
(1,1524)	1:88:A:VAL:HG23	1:114:A:VAL:HB	8	0.74
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG21	8	0.74
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG22	8	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG23	8	0.74
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	10	0.74
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	10	0.74
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	10	0.74
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	10	0.74
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	9	0.74
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	9	0.74
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	5	0.73
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	4	0.73
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	4	0.73
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	4	0.73
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	4	0.73
(1,4568)	1:228:A:LYS:HE3	1:218:A:HIS:HD2	9	0.73
(1,4567)	1:218:A:HIS:HD2	1:228:A:LYS:HE3	9	0.73
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	9	0.73
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	9	0.73
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	10	0.73
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	10	0.73
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	10	0.73
(1,2209)	1:145:A:ILE:HD11	1:142:A:THR:HB	10	0.73
(1,2209)	1:145:A:ILE:HD12	1:142:A:THR:HB	10	0.73
(1,2209)	1:145:A:ILE:HD13	1:142:A:THR:HB	10	0.73
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD11	10	0.73
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD12	10	0.73
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD13	10	0.73
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	8	0.73
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	8	0.73
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	8	0.73
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	8	0.73
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	8	0.73
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	8	0.73
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	8	0.73
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	8	0.73
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	8	0.73
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	3	0.73
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	3	0.73
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	7	0.72
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	7	0.72
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	7	0.72
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	7	0.72
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	7	0.72
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	4	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	4	0.72
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	4	0.72
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	8	0.72
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	8	0.72
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	8	0.72
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	6	0.72
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	6	0.72
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	6	0.72
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	6	0.72
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	6	0.72
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	6	0.72
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	6	0.72
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	6	0.72
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	6	0.72
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	6	0.72
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	6	0.72
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	6	0.72
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE1	9	0.72
(1,2702)	1:164:A:ASP:HB2	1:162:A:TYR:HE2	9	0.72
(1,2701)	1:162:A:TYR:HE1	1:164:A:ASP:HB2	9	0.72
(1,2701)	1:162:A:TYR:HE2	1:164:A:ASP:HB2	9	0.72
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	3	0.72
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	3	0.72
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	3	0.72
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	3	0.72
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	3	0.72
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	3	0.72
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	3	0.72
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	3	0.72
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	3	0.72
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	3	0.72
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	3	0.72
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	3	0.72
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	3	0.72
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	3	0.72
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	3	0.72
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	3	0.72
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	3	0.72
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	3	0.72
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	9	0.72
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	9	0.72
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	9	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	9	0.72
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	9	0.72
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	9	0.72
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	9	0.72
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	9	0.72
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	9	0.72
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	9	0.72
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	9	0.72
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	9	0.72
(1,1601)	1:118:A:ARG:HD3	1:119:A:GLY:H	7	0.72
(1,1435)	1:106:A:THR:H	1:107:A:ASN:H	7	0.72
(1,1434)	1:107:A:ASN:H	1:106:A:THR:H	7	0.72
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	4	0.72
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	3	0.72
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	3	0.72
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	1	0.71
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	9	0.71
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	9	0.71
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	9	0.71
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	7	0.71
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	7	0.71
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	9	0.71
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	9	0.71
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	7	0.71
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	7	0.71
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	9	0.71
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	9	0.71
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	5	0.71
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	5	0.71
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	5	0.71
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	5	0.71
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	5	0.71
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	5	0.71
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	3	0.71
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	3	0.71
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	3	0.71
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	5	0.71
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	5	0.71
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	5	0.71
(1,4156)	1:208:A:LEU:HD21	1:210:A:GLY:H	7	0.71
(1,4156)	1:208:A:LEU:HD22	1:210:A:GLY:H	7	0.71
(1,4156)	1:208:A:LEU:HD23	1:210:A:GLY:H	7	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	2	0.71
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	2	0.71
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	2	0.71
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	2	0.71
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	2	0.71
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	2	0.71
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	2	0.71
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	2	0.71
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	2	0.71
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	2	0.71
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	2	0.71
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	2	0.71
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	2	0.71
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	2	0.71
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	2	0.71
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	2	0.71
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	2	0.71
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	2	0.71
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	6	0.71
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	6	0.71
(1,2687)	1:163:A:VAL:HG21	1:161:A:ARG:HB2	2	0.71
(1,2687)	1:163:A:VAL:HG22	1:161:A:ARG:HB2	2	0.71
(1,2687)	1:163:A:VAL:HG23	1:161:A:ARG:HB2	2	0.71
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG21	2	0.71
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG22	2	0.71
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG23	2	0.71
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	8	0.71
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	8	0.71
(1,1718)	1:120:A:THR:HG21	1:123:A:ALA:H	1	0.71
(1,1718)	1:120:A:THR:HG22	1:123:A:ALA:H	1	0.71
(1,1718)	1:120:A:THR:HG23	1:123:A:ALA:H	1	0.71
(1,1188)	1:96:A:LYS:HE3	1:96:A:LYS:H	2	0.71
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	9	0.71
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	3	0.71
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	3	0.71
(1,4982)	1:241:A:ALA:HB1	1:218:A:HIS:HD2	4	0.7
(1,4982)	1:241:A:ALA:HB2	1:218:A:HIS:HD2	4	0.7
(1,4982)	1:241:A:ALA:HB3	1:218:A:HIS:HD2	4	0.7
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB1	4	0.7
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB2	4	0.7
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB3	4	0.7
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	1	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	9	0.7
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	9	0.7
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	9	0.7
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	5	0.7
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	5	0.7
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	5	0.7
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	5	0.7
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	9	0.7
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	9	0.7
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	9	0.7
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	2	0.7
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	3	0.7
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	9	0.7
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	9	0.7
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	9	0.7
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	9	0.7
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	9	0.7
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	9	0.7
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	9	0.7
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	9	0.7
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	9	0.7
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	9	0.7
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	9	0.7
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	9	0.7
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	9	0.7
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	9	0.7
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	9	0.7
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	9	0.7
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	9	0.7
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	9	0.7
(1,2735)	1:163:A:VAL:HG11	1:165:A:PHE:HD1	4	0.7
(1,2735)	1:163:A:VAL:HG11	1:165:A:PHE:HD2	4	0.7
(1,2735)	1:163:A:VAL:HG12	1:165:A:PHE:HD1	4	0.7
(1,2735)	1:163:A:VAL:HG12	1:165:A:PHE:HD2	4	0.7
(1,2735)	1:163:A:VAL:HG13	1:165:A:PHE:HD1	4	0.7
(1,2735)	1:163:A:VAL:HG13	1:165:A:PHE:HD2	4	0.7
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG11	4	0.7
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG12	4	0.7
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG13	4	0.7
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG11	4	0.7
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG12	4	0.7
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG13	4	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	7	0.7
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	7	0.7
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	8	0.69
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	8	0.69
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	8	0.69
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	5	0.69
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	5	0.69
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	5	0.69
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	5	0.69
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	1	0.69
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	1	0.69
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	1	0.69
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	1	0.69
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	1	0.69
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	1	0.69
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	1	0.69
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	1	0.69
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	1	0.69
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	7	0.69
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	7	0.69
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	7	0.69
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	7	0.69
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	7	0.69
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	7	0.69
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	2	0.68
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	8	0.68
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	8	0.68
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	8	0.68
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	8	0.68
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	1	0.68
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	1	0.68
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	8	0.68
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	8	0.68
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	10	0.68
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	10	0.68
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	1	0.68
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	1	0.68
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	8	0.68
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	8	0.68
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	10	0.68
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	10	0.68
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	4	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4476)	1:220:A:LEU:HD11	1:218:A:HIS:HD2	4	0.68
(1,4476)	1:220:A:LEU:HD12	1:218:A:HIS:HD2	4	0.68
(1,4476)	1:220:A:LEU:HD13	1:218:A:HIS:HD2	4	0.68
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD11	4	0.68
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD12	4	0.68
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD13	4	0.68
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	1	0.68
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	7	0.68
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	5	0.68
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	7	0.68
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	7	0.68
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	7	0.68
(1,1063)	1:87:A:ARG:HA	1:89:A:ASP:H	9	0.68
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	2	0.68
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	2	0.68
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	6	0.67
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	1	0.67
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	1	0.67
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	1	0.67
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	3	0.67
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	3	0.67
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	3	0.67
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	3	0.67
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	3	0.67
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	3	0.67
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	2	0.67
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	2	0.67
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	2	0.67
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	2	0.67
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	2	0.67
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	2	0.67
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	9	0.67
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	4	0.67
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	4	0.67
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	4	0.67
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	4	0.67
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	4	0.67
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	4	0.67
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	10	0.67
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	10	0.67
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	10	0.67
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	10	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	10	0.67
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	10	0.67
(1,3068)	1:177:A:ILE:HD11	1:75:A:SER:HB2	4	0.67
(1,3068)	1:177:A:ILE:HD12	1:75:A:SER:HB2	4	0.67
(1,3068)	1:177:A:ILE:HD13	1:75:A:SER:HB2	4	0.67
(1,3068)	1:177:A:ILE:HD11	1:75:A:SER:HB2	6	0.67
(1,3068)	1:177:A:ILE:HD12	1:75:A:SER:HB2	6	0.67
(1,3068)	1:177:A:ILE:HD13	1:75:A:SER:HB2	6	0.67
(1,1718)	1:120:A:THR:HG21	1:123:A:ALA:H	10	0.67
(1,1718)	1:120:A:THR:HG22	1:123:A:ALA:H	10	0.67
(1,1718)	1:120:A:THR:HG23	1:123:A:ALA:H	10	0.67
(1,5213)	1:246:A:ARG:HG2	1:244:A:SER:HB2	7	0.66
(1,5212)	1:244:A:SER:HB2	1:246:A:ARG:HG2	7	0.66
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	7	0.66
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	7	0.66
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	7	0.66
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	7	0.66
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	2	0.66
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	2	0.66
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	1	0.66
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	1	0.66
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	1	0.66
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	1	0.66
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	1	0.66
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	1	0.66
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	1	0.66
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	1	0.66
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	1	0.66
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	10	0.66
(1,4474)	1:220:A:LEU:HA	1:218:A:HIS:HD2	9	0.66
(1,4473)	1:218:A:HIS:HD2	1:220:A:LEU:HA	9	0.66
(1,4215)	1:208:A:LEU:HD21	1:212:A:TYR:H	5	0.66
(1,4215)	1:208:A:LEU:HD22	1:212:A:TYR:H	5	0.66
(1,4215)	1:208:A:LEU:HD23	1:212:A:TYR:H	5	0.66
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	10	0.66
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	10	0.66
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	10	0.66
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	10	0.66
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	10	0.66
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	10	0.66
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	10	0.66
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	10	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	10	0.66
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	8	0.66
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	8	0.66
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	8	0.66
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	8	0.66
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	8	0.66
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	8	0.66
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	8	0.66
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	8	0.66
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	8	0.66
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	8	0.66
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	8	0.66
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	8	0.66
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	8	0.66
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	8	0.66
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	8	0.66
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	8	0.66
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	8	0.66
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	8	0.66
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	1	0.66
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	1	0.66
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	1	0.66
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	1	0.66
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	1	0.66
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	1	0.66
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	1	0.66
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	1	0.66
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	1	0.66
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	9	0.66
(1,2638)	1:159:A:ILE:HD11	1:161:A:ARG:HG3	4	0.66
(1,2638)	1:159:A:ILE:HD12	1:161:A:ARG:HG3	4	0.66
(1,2638)	1:159:A:ILE:HD13	1:161:A:ARG:HG3	4	0.66
(1,2637)	1:161:A:ARG:HG3	1:159:A:ILE:HD11	4	0.66
(1,2637)	1:161:A:ARG:HG3	1:159:A:ILE:HD12	4	0.66
(1,2637)	1:161:A:ARG:HG3	1:159:A:ILE:HD13	4	0.66
(1,2294)	1:144:A:ASP:HB3	1:147:A:ARG:HB3	5	0.66
(1,2293)	1:147:A:ARG:HB3	1:144:A:ASP:HB3	5	0.66
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	5	0.66
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	5	0.66
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	5	0.66
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	5	0.66
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	5	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	5	0.66
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	5	0.66
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	5	0.66
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	5	0.66
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	5	0.66
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	5	0.66
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	5	0.66
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	5	0.66
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	5	0.66
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	5	0.66
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	5	0.66
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	5	0.66
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	5	0.66
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG21	4	0.66
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG22	4	0.66
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG23	4	0.66
(1,1645)	1:88:A:VAL:HG21	1:122:A:TYR:HB3	4	0.66
(1,1645)	1:88:A:VAL:HG22	1:122:A:TYR:HB3	4	0.66
(1,1645)	1:88:A:VAL:HG23	1:122:A:TYR:HB3	4	0.66
(1,1292)	1:102:A:VAL:HG11	1:98:A:ASN:HA	1	0.66
(1,1292)	1:102:A:VAL:HG12	1:98:A:ASN:HA	1	0.66
(1,1292)	1:102:A:VAL:HG13	1:98:A:ASN:HA	1	0.66
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG11	1	0.66
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG12	1	0.66
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG13	1	0.66
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	10	0.66
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	10	0.66
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	1	0.66
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	1	0.66
(1,4747)	1:162:A:TYR:HE1	1:234:A:GLU:HB2	5	0.65
(1,4747)	1:162:A:TYR:HE2	1:234:A:GLU:HB2	5	0.65
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	9	0.65
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	9	0.65
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	9	0.65
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	9	0.65
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	9	0.65
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	9	0.65
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	9	0.65
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	9	0.65
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	9	0.65
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	4	0.65
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	2	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	2	0.65
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	2	0.65
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	2	0.65
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD21	9	0.65
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD22	9	0.65
(1,4207)	1:212:A:TYR:HD1	1:208:A:LEU:HD23	9	0.65
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD21	9	0.65
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD22	9	0.65
(1,4207)	1:212:A:TYR:HD2	1:208:A:LEU:HD23	9	0.65
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	7	0.65
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	7	0.65
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	7	0.65
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	7	0.65
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	9	0.65
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	9	0.65
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	9	0.65
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	9	0.65
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	5	0.65
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	8	0.65
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	2	0.65
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	2	0.65
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	2	0.65
(1,3757)	1:195:A:VAL:HG21	1:197:A:VAL:H	4	0.65
(1,3757)	1:195:A:VAL:HG22	1:197:A:VAL:H	4	0.65
(1,3757)	1:195:A:VAL:HG23	1:197:A:VAL:H	4	0.65
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	10	0.65
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	10	0.65
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	10	0.65
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	10	0.65
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	10	0.65
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	10	0.65
(1,3398)	1:191:A:ALA:H	1:150:A:ARG:HE	3	0.65
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	10	0.65
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	10	0.65
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	3	0.65
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	3	0.65
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	3	0.65
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	3	0.65
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	3	0.65
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	3	0.65
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	2	0.65
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG21	9	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG22	9	0.65
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG23	9	0.65
(1,1645)	1:88:A:VAL:HG21	1:122:A:TYR:HB3	9	0.65
(1,1645)	1:88:A:VAL:HG22	1:122:A:TYR:HB3	9	0.65
(1,1645)	1:88:A:VAL:HG23	1:122:A:TYR:HB3	9	0.65
(1,1459)	1:109:A:TYR:HD1	1:108:A:GLY:H	5	0.65
(1,1459)	1:109:A:TYR:HD2	1:108:A:GLY:H	5	0.65
(1,1435)	1:106:A:THR:H	1:107:A:ASN:H	10	0.65
(1,1434)	1:107:A:ASN:H	1:106:A:THR:H	10	0.65
(1,1063)	1:87:A:ARG:HA	1:89:A:ASP:H	8	0.65
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	4	0.65
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	4	0.65
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	4	0.65
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	4	0.65
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	1	0.65
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	1	0.65
(1,5132)	1:243:A:VAL:HG11	1:216:A:ASN:H	9	0.64
(1,5132)	1:243:A:VAL:HG12	1:216:A:ASN:H	9	0.64
(1,5132)	1:243:A:VAL:HG13	1:216:A:ASN:H	9	0.64
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	8	0.64
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	8	0.64
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	8	0.64
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	3	0.64
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	3	0.64
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	3	0.64
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	3	0.64
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	4	0.64
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	4	0.64
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	4	0.64
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	4	0.64
(1,4031)	1:207:A:LYS:HG3	1:204:A:LYS:HG2	2	0.64
(1,4030)	1:204:A:LYS:HG2	1:207:A:LYS:HG3	2	0.64
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	4	0.64
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	4	0.64
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	4	0.64
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	4	0.64
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	4	0.64
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	4	0.64
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	4	0.64
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	4	0.64
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	4	0.64
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	4	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	4	0.64
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	4	0.64
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	4	0.64
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	4	0.64
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	4	0.64
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	8	0.64
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	8	0.64
(1,2209)	1:145:A:ILE:HD11	1:142:A:THR:HB	8	0.64
(1,2209)	1:145:A:ILE:HD12	1:142:A:THR:HB	8	0.64
(1,2209)	1:145:A:ILE:HD13	1:142:A:THR:HB	8	0.64
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD11	8	0.64
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD12	8	0.64
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD13	8	0.64
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	6	0.64
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	6	0.64
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	10	0.64
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	10	0.64
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	10	0.64
(1,887)	1:79:A:ASP:H	1:77:A:TRP:HE1	7	0.64
(1,886)	1:77:A:TRP:HE1	1:79:A:ASP:H	7	0.64
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	9	0.64
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	9	0.64
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	2	0.63
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	2	0.63
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	2	0.63
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	7	0.63
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	7	0.63
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	7	0.63
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	7	0.63
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	7	0.63
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	7	0.63
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	7	0.63
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	7	0.63
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	7	0.63
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	7	0.63
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	7	0.63
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	7	0.63
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	7	0.63
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	7	0.63
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	7	0.63
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	7	0.63
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	7	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	7	0.63
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG11	2	0.63
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG12	2	0.63
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG13	2	0.63
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG11	2	0.63
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG12	2	0.63
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG13	2	0.63
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG11	2	0.63
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG12	2	0.63
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG13	2	0.63
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD11	2	0.63
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD12	2	0.63
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD13	2	0.63
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD11	2	0.63
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD12	2	0.63
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD13	2	0.63
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD11	2	0.63
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD12	2	0.63
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD13	2	0.63
(1,887)	1:79:A:ASP:H	1:77:A:TRP:HE1	5	0.63
(1,886)	1:77:A:TRP:HE1	1:79:A:ASP:H	5	0.63
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	1	0.62
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	1	0.62
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	1	0.62
(1,4570)	1:220:A:LEU:HD11	1:228:A:LYS:HD2	6	0.62
(1,4570)	1:220:A:LEU:HD12	1:228:A:LYS:HD2	6	0.62
(1,4570)	1:220:A:LEU:HD13	1:228:A:LYS:HD2	6	0.62
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD11	6	0.62
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD12	6	0.62
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD13	6	0.62
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	2	0.62
(1,4474)	1:220:A:LEU:HA	1:218:A:HIS:HD2	8	0.62
(1,4473)	1:218:A:HIS:HD2	1:220:A:LEU:HA	8	0.62
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	4	0.62
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	4	0.62
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	4	0.62
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	10	0.62
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD1	8	0.62
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD2	8	0.62
(1,3428)	1:81:A:TYR:HD1	1:192:A:SER:HB2	8	0.62
(1,3428)	1:81:A:TYR:HD2	1:192:A:SER:HB2	8	0.62
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	8	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	8	0.62
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	8	0.62
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	8	0.62
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	8	0.62
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	8	0.62
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	8	0.62
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	8	0.62
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	8	0.62
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	8	0.62
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	8	0.62
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	8	0.62
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	5	0.62
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	5	0.62
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	5	0.62
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	6	0.62
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	4	0.62
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	4	0.62
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	4	0.62
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	6	0.62
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	6	0.62
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	6	0.62
(1,2324)	1:145:A:ILE:HD11	1:148:A:SER:HB2	9	0.62
(1,2324)	1:145:A:ILE:HD12	1:148:A:SER:HB2	9	0.62
(1,2324)	1:145:A:ILE:HD13	1:148:A:SER:HB2	9	0.62
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD11	9	0.62
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD12	9	0.62
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD13	9	0.62
(1,2026)	1:136:A:ASP:HB3	1:132:A:ARG:HG3	7	0.62
(1,2025)	1:132:A:ARG:HG3	1:136:A:ASP:HB3	7	0.62
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	7	0.62
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	7	0.62
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	7	0.62
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	7	0.62
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	7	0.62
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	7	0.62
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	7	0.62
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	7	0.62
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	7	0.62
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	7	0.62
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	7	0.62
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	7	0.62
(1,1718)	1:120:A:THR:HG21	1:123:A:ALA:H	9	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1718)	1:120:A:THR:HG22	1:123:A:ALA:H	9	0.62
(1,1718)	1:120:A:THR:HG23	1:123:A:ALA:H	9	0.62
(1,1601)	1:118:A:ARG:HD3	1:119:A:GLY:H	8	0.62
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	3	0.62
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	3	0.62
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	1	0.62
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	1	0.62
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	1	0.62
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	1	0.62
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	9	0.62
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	9	0.62
(1,5171)	1:214:A:ILE:HG21	1:244:A:SER:HB3	3	0.61
(1,5171)	1:214:A:ILE:HG22	1:244:A:SER:HB3	3	0.61
(1,5171)	1:214:A:ILE:HG23	1:244:A:SER:HB3	3	0.61
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG21	3	0.61
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG22	3	0.61
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG23	3	0.61
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	10	0.61
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	10	0.61
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	6	0.61
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	6	0.61
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	6	0.61
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	2	0.61
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	2	0.61
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	2	0.61
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	2	0.61
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	2	0.61
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	2	0.61
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	2	0.61
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	2	0.61
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	2	0.61
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	2	0.61
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG21	6	0.61
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG22	6	0.61
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG23	6	0.61
(1,1645)	1:88:A:VAL:HG21	1:122:A:TYR:HB3	6	0.61
(1,1645)	1:88:A:VAL:HG22	1:122:A:TYR:HB3	6	0.61
(1,1645)	1:88:A:VAL:HG23	1:122:A:TYR:HB3	6	0.61
(1,1206)	1:98:A:ASN:HA	1:77:A:TRP:HH2	9	0.61
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	7	0.6
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	3	0.6
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	3	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	3	0.6
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	3	0.6
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	1	0.6
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	1	0.6
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	1	0.6
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	1	0.6
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	1	0.6
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	1	0.6
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	2	0.6
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	2	0.6
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	3	0.6
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	3	0.6
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	3	0.6
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD21	6	0.6
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD22	6	0.6
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD23	6	0.6
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD21	6	0.6
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD22	6	0.6
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD23	6	0.6
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD21	6	0.6
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD22	6	0.6
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD23	6	0.6
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	3	0.6
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	3	0.6
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	3	0.6
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	3	0.6
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	3	0.6
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	3	0.6
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG11	3	0.6
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG12	3	0.6
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG13	3	0.6
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG11	3	0.6
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG12	3	0.6
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG13	3	0.6
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG11	3	0.6
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG12	3	0.6
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG13	3	0.6
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD11	3	0.6
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD12	3	0.6
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD13	3	0.6
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD11	3	0.6
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD12	3	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD13	3	0.6
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD11	3	0.6
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD12	3	0.6
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD13	3	0.6
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG21	4	0.6
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG22	4	0.6
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG23	4	0.6
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG21	4	0.6
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG22	4	0.6
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG23	4	0.6
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG21	4	0.6
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG22	4	0.6
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG23	4	0.6
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD11	4	0.6
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD12	4	0.6
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD13	4	0.6
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD11	4	0.6
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD12	4	0.6
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD13	4	0.6
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD11	4	0.6
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD12	4	0.6
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD13	4	0.6
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	10	0.6
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	10	0.6
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	10	0.6
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	10	0.6
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	10	0.6
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	10	0.6
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	5	0.6
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	5	0.6
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	5	0.6
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	5	0.6
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	5	0.6
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	5	0.6
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	5	0.6
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	5	0.6
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	5	0.6
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	3	0.6
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	3	0.6
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	3	0.6
(1,1062)	1:84:A:LEU:HD21	1:89:A:ASP:HB3	7	0.6
(1,1062)	1:84:A:LEU:HD22	1:89:A:ASP:HB3	7	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1062)	1:84:A:LEU:HD23	1:89:A:ASP:HB3	7	0.6
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD21	7	0.6
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD22	7	0.6
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD23	7	0.6
(1,706)	1:69:A:GLN:HE21	1:69:A:GLN:H	4	0.6
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	10	0.59
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	10	0.59
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	10	0.59
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	10	0.59
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE1	1	0.59
(1,4192)	1:58:A:LYS:HD3	1:212:A:TYR:HE2	1	0.59
(1,4191)	1:212:A:TYR:HE1	1:58:A:LYS:HD3	1	0.59
(1,4191)	1:212:A:TYR:HE2	1:58:A:LYS:HD3	1	0.59
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	3	0.59
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	3	0.59
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	3	0.59
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	7	0.59
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	7	0.59
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	7	0.59
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	3	0.59
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	3	0.59
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	9	0.59
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	9	0.59
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	9	0.59
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	4	0.59
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	4	0.59
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	4	0.59
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	4	0.59
(1,3139)	1:179:A:PRO:HA	1:77:A:TRP:H	7	0.59
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	5	0.59
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	5	0.59
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	5	0.59
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	5	0.59
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	5	0.59
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	5	0.59
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	5	0.59
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	5	0.59
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	5	0.59
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	1	0.59
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	1	0.59
(1,1096)	1:92:A:TRP:HZ2	1:77:A:TRP:HZ2	6	0.59
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	8	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	8	0.59
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	8	0.59
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	8	0.59
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	2	0.59
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	2	0.59
(1,5194)	1:243:A:VAL:HG11	1:245:A:SER:HB2	1	0.58
(1,5194)	1:243:A:VAL:HG12	1:245:A:SER:HB2	1	0.58
(1,5194)	1:243:A:VAL:HG13	1:245:A:SER:HB2	1	0.58
(1,5171)	1:214:A:ILE:HG21	1:244:A:SER:HB3	4	0.58
(1,5171)	1:214:A:ILE:HG22	1:244:A:SER:HB3	4	0.58
(1,5171)	1:214:A:ILE:HG23	1:244:A:SER:HB3	4	0.58
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG21	4	0.58
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG22	4	0.58
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG23	4	0.58
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	7	0.58
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	7	0.58
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	9	0.58
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	9	0.58
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	4	0.58
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	4	0.58
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	4	0.58
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	4	0.58
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	4	0.58
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	4	0.58
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	1	0.58
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	1	0.58
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	1	0.58
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	9	0.58
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	9	0.58
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	9	0.58
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	9	0.58
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	9	0.58
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	9	0.58
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	9	0.58
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	9	0.58
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	9	0.58
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG11	1	0.58
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG12	1	0.58
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG13	1	0.58
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG11	1	0.58
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG12	1	0.58
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG13	1	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG11	1	0.58
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG12	1	0.58
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG13	1	0.58
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD11	1	0.58
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD12	1	0.58
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD13	1	0.58
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD11	1	0.58
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD12	1	0.58
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD13	1	0.58
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD11	1	0.58
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD12	1	0.58
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD13	1	0.58
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	2	0.58
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	2	0.58
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	2	0.58
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG21	3	0.58
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG22	3	0.58
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG23	3	0.58
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG21	3	0.58
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG22	3	0.58
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG23	3	0.58
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG21	3	0.58
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG22	3	0.58
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG23	3	0.58
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD11	3	0.58
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD12	3	0.58
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD13	3	0.58
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD11	3	0.58
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD12	3	0.58
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD13	3	0.58
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD11	3	0.58
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD12	3	0.58
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD13	3	0.58
(1,2298)	1:144:A:ASP:HB3	1:147:A:ARG:HD2	9	0.58
(1,2297)	1:147:A:ARG:HD2	1:144:A:ASP:HB3	9	0.58
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	5	0.58
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	5	0.58
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	5	0.58
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	5	0.58
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	5	0.58
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	5	0.58
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	5	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	5	0.58
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	5	0.58
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	5	0.58
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	5	0.58
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	5	0.58
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	3	0.57
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD11	2	0.57
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD12	2	0.57
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD13	2	0.57
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	3	0.57
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	3	0.57
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	10	0.57
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	10	0.57
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	10	0.57
(1,4169)	1:208:A:LEU:HD21	1:211:A:ASP:HB2	2	0.57
(1,4169)	1:208:A:LEU:HD22	1:211:A:ASP:HB2	2	0.57
(1,4169)	1:208:A:LEU:HD23	1:211:A:ASP:HB2	2	0.57
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD21	2	0.57
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD22	2	0.57
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD23	2	0.57
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	5	0.57
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	5	0.57
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	5	0.57
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	7	0.57
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	7	0.57
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	7	0.57
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	6	0.57
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	6	0.57
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	6	0.57
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	7	0.57
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	7	0.57
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	7	0.57
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	9	0.57
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	9	0.57
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	9	0.57
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	6	0.57
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	6	0.57
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	6	0.57
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	7	0.57
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	7	0.57
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	7	0.57
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	9	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	9	0.57
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	9	0.57
(1,2764)	1:165:A:PHE:H	1:167:A:GLY:H	5	0.57
(1,2763)	1:167:A:GLY:H	1:165:A:PHE:H	5	0.57
(1,2324)	1:145:A:ILE:HD11	1:148:A:SER:HB2	7	0.57
(1,2324)	1:145:A:ILE:HD12	1:148:A:SER:HB2	7	0.57
(1,2324)	1:145:A:ILE:HD13	1:148:A:SER:HB2	7	0.57
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD11	7	0.57
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD12	7	0.57
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD13	7	0.57
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	8	0.57
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	8	0.57
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	8	0.57
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	7	0.57
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	7	0.57
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	7	0.57
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	7	0.57
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	7	0.57
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	7	0.57
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	7	0.57
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	7	0.57
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	7	0.57
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	7	0.57
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	7	0.57
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	7	0.57
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	7	0.57
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	7	0.57
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	7	0.57
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	7	0.57
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	7	0.57
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	7	0.57
(1,1097)	1:79:A:ASP:HB2	1:92:A:TRP:HE1	7	0.57
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG21	4	0.57
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG22	4	0.57
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG23	4	0.57
(1,749)	1:72:A:THR:HG21	1:69:A:GLN:HG2	4	0.57
(1,749)	1:72:A:THR:HG22	1:69:A:GLN:HG2	4	0.57
(1,749)	1:72:A:THR:HG23	1:69:A:GLN:HG2	4	0.57
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	4	0.57
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	4	0.57
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	4	0.57
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	4	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	4	0.57
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	4	0.57
(1,690)	1:66:A:ASN:HB2	1:69:A:GLN:HB3	5	0.57
(1,689)	1:69:A:GLN:HB3	1:66:A:ASN:HB2	5	0.57
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	4	0.57
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	4	0.57
(1,4982)	1:241:A:ALA:HB1	1:218:A:HIS:HD2	2	0.56
(1,4982)	1:241:A:ALA:HB2	1:218:A:HIS:HD2	2	0.56
(1,4982)	1:241:A:ALA:HB3	1:218:A:HIS:HD2	2	0.56
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB1	2	0.56
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB2	2	0.56
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB3	2	0.56
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	5	0.56
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	10	0.56
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	3	0.56
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	3	0.56
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	3	0.56
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	3	0.56
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	3	0.56
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	3	0.56
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	8	0.56
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG11	9	0.56
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG12	9	0.56
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG13	9	0.56
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG11	9	0.56
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG12	9	0.56
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG13	9	0.56
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG11	9	0.56
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG12	9	0.56
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG13	9	0.56
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD11	9	0.56
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD12	9	0.56
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD13	9	0.56
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD11	9	0.56
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD12	9	0.56
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD13	9	0.56
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD11	9	0.56
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD12	9	0.56
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD13	9	0.56
(1,3454)	1:193:A:VAL:HG21	1:115:A:ILE:HG12	8	0.56
(1,3454)	1:193:A:VAL:HG22	1:115:A:ILE:HG12	8	0.56
(1,3454)	1:193:A:VAL:HG23	1:115:A:ILE:HG12	8	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3453)	1:115:A:ILE:HG12	1:193:A:VAL:HG21	8	0.56
(1,3453)	1:115:A:ILE:HG12	1:193:A:VAL:HG22	8	0.56
(1,3453)	1:115:A:ILE:HG12	1:193:A:VAL:HG23	8	0.56
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG21	5	0.56
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG22	5	0.56
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG23	5	0.56
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG21	4	0.56
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG22	4	0.56
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG23	4	0.56
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG21	4	0.56
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG22	4	0.56
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG23	4	0.56
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG21	4	0.56
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG22	4	0.56
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG23	4	0.56
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD11	4	0.56
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD12	4	0.56
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD13	4	0.56
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD11	4	0.56
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD12	4	0.56
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD13	4	0.56
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD11	4	0.56
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD12	4	0.56
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD13	4	0.56
(1,2209)	1:145:A:ILE:HD11	1:142:A:THR:HB	5	0.56
(1,2209)	1:145:A:ILE:HD12	1:142:A:THR:HB	5	0.56
(1,2209)	1:145:A:ILE:HD13	1:142:A:THR:HB	5	0.56
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD11	5	0.56
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD12	5	0.56
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD13	5	0.56
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	7	0.56
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	7	0.56
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	7	0.56
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	7	0.56
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	7	0.56
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	7	0.56
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	7	0.56
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	7	0.56
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	7	0.56
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	7	0.56
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	7	0.56
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	7	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	5	0.56
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	5	0.56
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	5	0.56
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	5	0.56
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	8	0.56
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	6	0.56
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	6	0.56
(1,23)	1:43:A:HIS:HA	1:46:A:ASP:H	9	0.56
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	9	0.55
(1,5171)	1:214:A:ILE:HG21	1:244:A:SER:HB3	8	0.55
(1,5171)	1:214:A:ILE:HG22	1:244:A:SER:HB3	8	0.55
(1,5171)	1:214:A:ILE:HG23	1:244:A:SER:HB3	8	0.55
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG21	8	0.55
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG22	8	0.55
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG23	8	0.55
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	4	0.55
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	4	0.55
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	4	0.55
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	3	0.55
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	3	0.55
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	3	0.55
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	8	0.55
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	8	0.55
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	8	0.55
(1,4476)	1:220:A:LEU:HD11	1:218:A:HIS:HD2	2	0.55
(1,4476)	1:220:A:LEU:HD12	1:218:A:HIS:HD2	2	0.55
(1,4476)	1:220:A:LEU:HD13	1:218:A:HIS:HD2	2	0.55
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD11	2	0.55
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD12	2	0.55
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD13	2	0.55
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	6	0.55
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	6	0.55
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	2	0.55
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	3	0.55
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	3	0.55
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	4	0.55
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	4	0.55
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	3	0.55
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	3	0.55
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	4	0.55
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	4	0.55
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	5	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	5	0.55
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	5	0.55
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	2	0.55
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	2	0.55
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	2	0.55
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	2	0.55
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	2	0.55
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	2	0.55
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	7	0.55
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	7	0.55
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	2	0.55
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	2	0.55
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	2	0.55
(1,3516)	1:194:A:MET:HE1	1:80:A:ALA:HA	8	0.55
(1,3516)	1:194:A:MET:HE2	1:80:A:ALA:HA	8	0.55
(1,3516)	1:194:A:MET:HE3	1:80:A:ALA:HA	8	0.55
(1,3515)	1:80:A:ALA:HA	1:194:A:MET:HE1	8	0.55
(1,3515)	1:80:A:ALA:HA	1:194:A:MET:HE2	8	0.55
(1,3515)	1:80:A:ALA:HA	1:194:A:MET:HE3	8	0.55
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	1	0.55
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	1	0.55
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	1	0.55
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	1	0.55
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	1	0.55
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	1	0.55
(1,2294)	1:144:A:ASP:HB3	1:147:A:ARG:HB3	10	0.55
(1,2293)	1:147:A:ARG:HB3	1:144:A:ASP:HB3	10	0.55
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	9	0.55
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	6	0.55
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	6	0.55
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	6	0.55
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	6	0.55
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	6	0.55
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	6	0.55
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	8	0.55
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	8	0.55
(1,144)	1:47:A:ILE:HB	1:50:A:GLU:HG2	2	0.55
(1,143)	1:50:A:GLU:HG2	1:47:A:ILE:HB	2	0.55
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	8	0.55
(1,5171)	1:214:A:ILE:HG21	1:244:A:SER:HB3	10	0.54
(1,5171)	1:214:A:ILE:HG22	1:244:A:SER:HB3	10	0.54
(1,5171)	1:214:A:ILE:HG23	1:244:A:SER:HB3	10	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG21	10	0.54
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG22	10	0.54
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG23	10	0.54
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	9	0.54
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	4	0.54
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	2	0.54
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	2	0.54
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	2	0.54
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	2	0.54
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	2	0.54
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	2	0.54
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	1	0.54
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	1	0.54
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	5	0.54
(1,4171)	1:208:A:LEU:HD21	1:211:A:ASP:H	8	0.54
(1,4171)	1:208:A:LEU:HD22	1:211:A:ASP:H	8	0.54
(1,4171)	1:208:A:LEU:HD23	1:211:A:ASP:H	8	0.54
(1,4151)	1:207:A:LYS:HG3	1:210:A:GLY:H	2	0.54
(1,4026)	1:204:A:LYS:HB3	1:207:A:LYS:HE2	6	0.54
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	3	0.54
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	3	0.54
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	7	0.54
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	7	0.54
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	7	0.54
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	7	0.54
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	7	0.54
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	7	0.54
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	3	0.54
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	3	0.54
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	3	0.54
(1,2879)	1:163:A:VAL:HG11	1:171:A:ILE:H	2	0.54
(1,2879)	1:163:A:VAL:HG12	1:171:A:ILE:H	2	0.54
(1,2879)	1:163:A:VAL:HG13	1:171:A:ILE:H	2	0.54
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	7	0.54
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	3	0.54
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	3	0.54
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	3	0.54
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	3	0.54
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	3	0.54
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	3	0.54
(1,2267)	1:146:A:LEU:HD21	1:118:A:ARG:HD3	7	0.54
(1,2267)	1:146:A:LEU:HD22	1:118:A:ARG:HD3	7	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2267)	1:146:A:LEU:HD23	1:118:A:ARG:HD3	7	0.54
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD21	7	0.54
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD22	7	0.54
(1,2266)	1:118:A:ARG:HD3	1:146:A:LEU:HD23	7	0.54
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	1	0.54
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	1	0.54
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	1	0.54
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	1	0.54
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	1	0.54
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	1	0.54
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	1	0.54
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	1	0.54
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	1	0.54
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	1	0.54
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	1	0.54
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	1	0.54
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	1	0.54
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	1	0.54
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	1	0.54
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	1	0.54
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	1	0.54
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	1	0.54
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	8	0.54
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	10	0.54
(1,1967)	1:133:A:SER:HB2	1:120:A:THR:H	7	0.54
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	1	0.54
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	1	0.54
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	1	0.54
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	1	0.54
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	1	0.54
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	1	0.54
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	9	0.54
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	9	0.54
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	9	0.54
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	9	0.54
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	5	0.53
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	5	0.53
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	5	0.53
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	4	0.53
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	2	0.53
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	9	0.53
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	9	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	10	0.53
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	10	0.53
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	9	0.53
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	9	0.53
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	10	0.53
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	10	0.53
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	8	0.53
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	8	0.53
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	8	0.53
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	6	0.53
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	6	0.53
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	6	0.53
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	9	0.53
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	9	0.53
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	9	0.53
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	7	0.53
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	7	0.53
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	7	0.53
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	7	0.53
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	7	0.53
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	7	0.53
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	1	0.53
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	1	0.53
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	1	0.53
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	1	0.53
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	1	0.53
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	1	0.53
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	1	0.53
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	1	0.53
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	1	0.53
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	1	0.53
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	1	0.53
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	1	0.53
(1,2879)	1:163:A:VAL:HG11	1:171:A:ILE:H	5	0.53
(1,2879)	1:163:A:VAL:HG12	1:171:A:ILE:H	5	0.53
(1,2879)	1:163:A:VAL:HG13	1:171:A:ILE:H	5	0.53
(1,2451)	1:151:A:ARG:HD2	1:154:A:VAL:HB	9	0.53
(1,2450)	1:154:A:VAL:HB	1:151:A:ARG:HD2	9	0.53
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	1	0.53
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	1	0.53
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	1	0.53
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	1	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	1	0.53
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	1	0.53
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	7	0.53
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	7	0.53
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	7	0.53
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	7	0.53
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	9	0.53
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	9	0.53
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	6	0.53
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	6	0.53
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	7	0.53
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	7	0.53
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	6	0.53
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	6	0.53
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	7	0.53
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	7	0.53
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	8	0.53
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	8	0.53
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	8	0.53
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	8	0.53
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	8	0.53
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	8	0.53
(1,23)	1:43:A:HIS:HA	1:46:A:ASP:H	2	0.53
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	8	0.52
(1,5171)	1:214:A:ILE:HG21	1:244:A:SER:HB3	5	0.52
(1,5171)	1:214:A:ILE:HG22	1:244:A:SER:HB3	5	0.52
(1,5171)	1:214:A:ILE:HG23	1:244:A:SER:HB3	5	0.52
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG21	5	0.52
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG22	5	0.52
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG23	5	0.52
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	8	0.52
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	8	0.52
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	4	0.52
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	4	0.52
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	4	0.52
(1,4570)	1:220:A:LEU:HD11	1:228:A:LYS:HD2	1	0.52
(1,4570)	1:220:A:LEU:HD12	1:228:A:LYS:HD2	1	0.52
(1,4570)	1:220:A:LEU:HD13	1:228:A:LYS:HD2	1	0.52
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD11	1	0.52
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD12	1	0.52
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD13	1	0.52
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	8	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	5	0.52
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	5	0.52
(1,3139)	1:179:A:PRO:HA	1:77:A:TRP:H	10	0.52
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	2	0.52
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	2	0.52
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	2	0.52
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	2	0.52
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	2	0.52
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	2	0.52
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE1	5	0.52
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE2	5	0.52
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE1	5	0.52
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE2	5	0.52
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE1	5	0.52
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE2	5	0.52
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD21	5	0.52
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD22	5	0.52
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD23	5	0.52
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD21	5	0.52
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD22	5	0.52
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD23	5	0.52
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	9	0.52
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	9	0.52
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	9	0.52
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	9	0.52
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	9	0.52
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	9	0.52
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	9	0.52
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	9	0.52
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	9	0.52
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	9	0.52
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	9	0.52
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	9	0.52
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	9	0.52
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	9	0.52
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	9	0.52
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	9	0.52
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	9	0.52
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	9	0.52
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	5	0.52
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	5	0.52
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	5	0.52
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	5	0.52
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	5	0.52
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	3	0.52
(1,5177)	1:244:A:SER:HB2	1:229:A:GLU:HG2	2	0.51
(1,5176)	1:229:A:GLU:HG2	1:244:A:SER:HB2	2	0.51
(1,5171)	1:214:A:ILE:HG21	1:244:A:SER:HB3	7	0.51
(1,5171)	1:214:A:ILE:HG22	1:244:A:SER:HB3	7	0.51
(1,5171)	1:214:A:ILE:HG23	1:244:A:SER:HB3	7	0.51
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG21	7	0.51
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG22	7	0.51
(1,5170)	1:244:A:SER:HB3	1:214:A:ILE:HG23	7	0.51
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	2	0.51
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	2	0.51
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	2	0.51
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	9	0.51
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	9	0.51
(1,5071)	1:228:A:LYS:HB3	1:242:A:TRP:H	10	0.51
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD11	5	0.51
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD12	5	0.51
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD13	5	0.51
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	6	0.51
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	6	0.51
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	6	0.51
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	6	0.51
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	6	0.51
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	6	0.51
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	3	0.51
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	3	0.51
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	3	0.51
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	6	0.51
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	6	0.51
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	6	0.51
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	3	0.51
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	3	0.51
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	3	0.51
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	6	0.51
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	6	0.51
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	6	0.51
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	3	0.51
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	3	0.51
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	3	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	6	0.51
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	6	0.51
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	6	0.51
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	5	0.51
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	5	0.51
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	5	0.51
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	5	0.51
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	5	0.51
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	5	0.51
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	5	0.51
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	10	0.51
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	10	0.51
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	10	0.51
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	10	0.51
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	10	0.51
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	5	0.51
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	5	0.51
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	5	0.51
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	5	0.51
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	5	0.51
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	5	0.51
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	5	0.51
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	5	0.51
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	5	0.51
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	5	0.51
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	5	0.51
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	5	0.51
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	5	0.51
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	5	0.51
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	5	0.51
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	5	0.51
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	5	0.51
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	5	0.51
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	6	0.51
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	6	0.51
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	6	0.51
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	6	0.51
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	6	0.51
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	6	0.51
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	6	0.51
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	6	0.51
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	6	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2209)	1:145:A:ILE:HD11	1:142:A:THR:HB	1	0.51
(1,2209)	1:145:A:ILE:HD12	1:142:A:THR:HB	1	0.51
(1,2209)	1:145:A:ILE:HD13	1:142:A:THR:HB	1	0.51
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD11	1	0.51
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD12	1	0.51
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD13	1	0.51
(1,1703)	1:88:A:VAL:HG11	1:123:A:ALA:H	1	0.51
(1,1703)	1:88:A:VAL:HG12	1:123:A:ALA:H	1	0.51
(1,1703)	1:88:A:VAL:HG13	1:123:A:ALA:H	1	0.51
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	10	0.51
(1,1208)	1:98:A:ASN:HB2	1:92:A:TRP:HZ2	2	0.51
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	3	0.51
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	3	0.51
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	3	0.51
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	3	0.51
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	3	0.51
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	3	0.51
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	3	0.51
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	3	0.51
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	3	0.51
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	3	0.51
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	3	0.51
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	3	0.51
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	1	0.51
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	1	0.51
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	1	0.51
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	1	0.51
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	1	0.5
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	1	0.5
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	10	0.5
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	4	0.5
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	4	0.5
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	1	0.5
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	1	0.5
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	1	0.5
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	1	0.5
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	2	0.5
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	2	0.5
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	2	0.5
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	2	0.5
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	4	0.5
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	4	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	4	0.5
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	5	0.5
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	5	0.5
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	5	0.5
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	7	0.5
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	7	0.5
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	7	0.5
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	8	0.5
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	8	0.5
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	8	0.5
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	10	0.5
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	10	0.5
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	10	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	4	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	4	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	4	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	5	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	5	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	5	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	7	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	7	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	7	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	8	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	8	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	8	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	10	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	10	0.5
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	10	0.5
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	5	0.5
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	2	0.5
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	2	0.5
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	5	0.5
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	5	0.5
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	7	0.5
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	7	0.5
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	7	0.5
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	7	0.5
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	7	0.5
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	7	0.5
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	4	0.5
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	4	0.5
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	6	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	6	0.5
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	6	0.5
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	4	0.5
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	4	0.5
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	4	0.5
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	4	0.5
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	4	0.5
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	4	0.5
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD11	8	0.5
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD12	8	0.5
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD13	8	0.5
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD11	8	0.5
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD12	8	0.5
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD13	8	0.5
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD11	8	0.5
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD12	8	0.5
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD13	8	0.5
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	10	0.5
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	10	0.5
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	10	0.5
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	10	0.5
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	10	0.5
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	10	0.5
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG21	3	0.5
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG22	3	0.5
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG23	3	0.5
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	9	0.5
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	9	0.5
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	9	0.5
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	9	0.5
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	9	0.5
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	9	0.5
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	9	0.5
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	9	0.5
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	9	0.5
(1,1949)	1:132:A:ARG:HG3	1:131:A:GLU:H	9	0.5
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	6	0.5
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	6	0.5
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	6	0.5
(1,1459)	1:109:A:TYR:HD1	1:108:A:GLY:H	9	0.5
(1,1459)	1:109:A:TYR:HD2	1:108:A:GLY:H	9	0.5
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	5	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	5	0.5
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	5	0.5
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	5	0.5
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	5	0.5
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	5	0.5
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	5	0.5
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	5	0.5
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	5	0.5
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	5	0.5
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	5	0.5
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	5	0.5
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG11	4	0.5
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG12	4	0.5
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG13	4	0.5
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG11	4	0.5
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG12	4	0.5
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG13	4	0.5
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG11	4	0.5
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG12	4	0.5
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG13	4	0.5
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG21	4	0.5
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG22	4	0.5
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG23	4	0.5
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG21	4	0.5
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG22	4	0.5
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG23	4	0.5
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG21	4	0.5
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG22	4	0.5
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG23	4	0.5
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD1	3	0.5
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD2	3	0.5
(1,796)	1:74:A:TYR:HD1	1:71:A:SER:HA	3	0.5
(1,796)	1:74:A:TYR:HD2	1:71:A:SER:HA	3	0.5
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	2	0.5
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	2	0.5
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	2	0.5
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	2	0.5
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	2	0.5
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	2	0.5
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	5	0.5
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	5	0.5
(1,395)	1:58:A:LYS:HG3	1:55:A:TYR:HD1	9	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,395)	1:58:A:LYS:HG3	1:55:A:TYR:HD2	9	0.5
(1,394)	1:55:A:TYR:HD1	1:58:A:LYS:HG3	9	0.5
(1,394)	1:55:A:TYR:HD2	1:58:A:LYS:HG3	9	0.5
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	8	0.5
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	8	0.5
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	8	0.5
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	1	0.49
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	1	0.49
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	1	0.49
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	7	0.49
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	7	0.49
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	7	0.49
(1,5003)	1:241:A:ALA:HB1	1:228:A:LYS:HD3	6	0.49
(1,5003)	1:241:A:ALA:HB2	1:228:A:LYS:HD3	6	0.49
(1,5003)	1:241:A:ALA:HB3	1:228:A:LYS:HD3	6	0.49
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	9	0.49
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	7	0.49
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	3	0.49
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	3	0.49
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	3	0.49
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	3	0.49
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	3	0.49
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	3	0.49
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	3	0.49
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	3	0.49
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	3	0.49
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	3	0.49
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	3	0.49
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	3	0.49
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	3	0.49
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	3	0.49
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	3	0.49
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	3	0.49
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	3	0.49
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	3	0.49
(1,4647)	1:231:A:LEU:HD21	1:56:A:VAL:HB	1	0.49
(1,4647)	1:231:A:LEU:HD22	1:56:A:VAL:HB	1	0.49
(1,4647)	1:231:A:LEU:HD23	1:56:A:VAL:HB	1	0.49
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD21	1	0.49
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD22	1	0.49
(1,4646)	1:56:A:VAL:HB	1:231:A:LEU:HD23	1	0.49
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	8	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	8	0.49
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	8	0.49
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	8	0.49
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	7	0.49
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	7	0.49
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	7	0.49
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	7	0.49
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	7	0.49
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	7	0.49
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	5	0.49
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	5	0.49
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	9	0.49
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	9	0.49
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	9	0.49
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	9	0.49
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	9	0.49
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	9	0.49
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	5	0.49
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	5	0.49
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	5	0.49
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	5	0.49
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	10	0.49
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	10	0.49
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	10	0.49
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	10	0.49
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	10	0.49
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	10	0.49
(1,3278)	1:186:A:ILE:HG21	1:183:A:HIS:HD2	7	0.49
(1,3278)	1:186:A:ILE:HG22	1:183:A:HIS:HD2	7	0.49
(1,3278)	1:186:A:ILE:HG23	1:183:A:HIS:HD2	7	0.49
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG21	7	0.49
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG22	7	0.49
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG23	7	0.49
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	4	0.49
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	4	0.49
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	4	0.49
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	4	0.49
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	4	0.49
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	4	0.49
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	4	0.49
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	4	0.49
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	4	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	4	0.49
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	4	0.49
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	4	0.49
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	4	0.49
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	2	0.49
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	2	0.49
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	2	0.49
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	2	0.49
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	2	0.49
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	2	0.49
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	2	0.49
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	2	0.49
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	2	0.49
(1,1967)	1:133:A:SER:HB2	1:120:A:THR:H	1	0.49
(1,1459)	1:109:A:TYR:HD1	1:108:A:GLY:H	4	0.49
(1,1459)	1:109:A:TYR:HD2	1:108:A:GLY:H	4	0.49
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	5	0.49
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	5	0.49
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	5	0.49
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	5	0.49
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	5	0.49
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	5	0.49
(1,1054)	1:88:A:VAL:HB	1:88:A:VAL:H	5	0.49
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	1	0.49
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	1	0.49
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	1	0.49
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	1	0.49
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	1	0.49
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	1	0.49
(1,23)	1:43:A:HIS:HA	1:46:A:ASP:H	8	0.49
(1,5211)	1:49:A:ILE:HG21	1:246:A:ARG:HD3	4	0.48
(1,5211)	1:49:A:ILE:HG22	1:246:A:ARG:HD3	4	0.48
(1,5211)	1:49:A:ILE:HG23	1:246:A:ARG:HD3	4	0.48
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG21	4	0.48
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG22	4	0.48
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG23	4	0.48
(1,5010)	1:241:A:ALA:HB1	1:229:A:GLU:H	6	0.48
(1,5010)	1:241:A:ALA:HB2	1:229:A:GLU:H	6	0.48
(1,5010)	1:241:A:ALA:HB3	1:229:A:GLU:H	6	0.48
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	1	0.48
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	5	0.48
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	2	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	2	0.48
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	2	0.48
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	5	0.48
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	5	0.48
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	5	0.48
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	5	0.48
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	5	0.48
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	5	0.48
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	5	0.48
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	5	0.48
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	5	0.48
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	8	0.48
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	8	0.48
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	8	0.48
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	8	0.48
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	8	0.48
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	9	0.48
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	9	0.48
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	1	0.48
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	1	0.48
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	1	0.48
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	1	0.48
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	1	0.48
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	1	0.48
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	3	0.48
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	3	0.48
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	3	0.48
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	10	0.48
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	10	0.48
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	10	0.48
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	4	0.48
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	4	0.48
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	4	0.48
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	6	0.48
(1,1946)	1:125:A:LEU:HD21	1:132:A:ARG:H	6	0.48
(1,1946)	1:125:A:LEU:HD22	1:132:A:ARG:H	6	0.48
(1,1946)	1:125:A:LEU:HD23	1:132:A:ARG:H	6	0.48
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE1	2	0.48
(1,808)	1:73:A:THR:HB	1:74:A:TYR:HE2	2	0.48
(1,807)	1:74:A:TYR:HE1	1:73:A:THR:HB	2	0.48
(1,807)	1:74:A:TYR:HE2	1:73:A:THR:HB	2	0.48
(1,690)	1:66:A:ASN:HB2	1:69:A:GLN:HB3	8	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,689)	1:69:A:GLN:HB3	1:66:A:ASN:HB2	8	0.48
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	4	0.48
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	4	0.48
(1,499)	1:58:A:LYS:HD3	1:62:A:ASN:HD21	4	0.48
(1,499)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	4	0.48
(1,199)	1:48:A:ALA:HB1	1:52:A:SER:HB3	1	0.48
(1,199)	1:48:A:ALA:HB2	1:52:A:SER:HB3	1	0.48
(1,199)	1:48:A:ALA:HB3	1:52:A:SER:HB3	1	0.48
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB1	1	0.48
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB2	1	0.48
(1,198)	1:52:A:SER:HB3	1:48:A:ALA:HB3	1	0.48
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	5	0.48
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	5	0.48
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	5	0.48
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	5	0.48
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	5	0.48
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	5	0.48
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	1	0.48
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	1	0.48
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	3	0.47
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	3	0.47
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	3	0.47
(1,5003)	1:241:A:ALA:HB1	1:228:A:LYS:HD3	1	0.47
(1,5003)	1:241:A:ALA:HB2	1:228:A:LYS:HD3	1	0.47
(1,5003)	1:241:A:ALA:HB3	1:228:A:LYS:HD3	1	0.47
(1,4911)	1:59:A:ALA:HB1	1:240:A:LEU:HG	9	0.47
(1,4911)	1:59:A:ALA:HB2	1:240:A:LEU:HG	9	0.47
(1,4911)	1:59:A:ALA:HB3	1:240:A:LEU:HG	9	0.47
(1,4910)	1:240:A:LEU:HG	1:59:A:ALA:HB1	9	0.47
(1,4910)	1:240:A:LEU:HG	1:59:A:ALA:HB2	9	0.47
(1,4910)	1:240:A:LEU:HG	1:59:A:ALA:HB3	9	0.47
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	4	0.47
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	4	0.47
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	4	0.47
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	5	0.47
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	5	0.47
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	5	0.47
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	5	0.47
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	5	0.47
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	5	0.47
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	2	0.47
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	8	0.47
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	8	0.47
(1,3785)	1:110:A:ASP:HA	1:199:A:ARG:H	4	0.47
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	1	0.47
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	1	0.47
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	1	0.47
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	1	0.47
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	1	0.47
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	1	0.47
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	1	0.47
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	1	0.47
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	1	0.47
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	1	0.47
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	1	0.47
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	1	0.47
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	1	0.47
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	1	0.47
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	1	0.47
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	1	0.47
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	1	0.47
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	1	0.47
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	6	0.47
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	6	0.47
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	6	0.47
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	6	0.47
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	6	0.47
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	6	0.47
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD1	1	0.47
(1,3429)	1:192:A:SER:HB2	1:81:A:TYR:HD2	1	0.47
(1,3428)	1:81:A:TYR:HD1	1:192:A:SER:HB2	1	0.47
(1,3428)	1:81:A:TYR:HD2	1:192:A:SER:HB2	1	0.47
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG21	2	0.47
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG22	2	0.47
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG23	2	0.47
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	10	0.47
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	10	0.47
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	10	0.47
(1,2209)	1:145:A:ILE:HD11	1:142:A:THR:HB	6	0.47
(1,2209)	1:145:A:ILE:HD12	1:142:A:THR:HB	6	0.47
(1,2209)	1:145:A:ILE:HD13	1:142:A:THR:HB	6	0.47
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD11	6	0.47
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD12	6	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD13	6	0.47
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	2	0.47
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	2	0.47
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	2	0.47
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	2	0.47
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	2	0.47
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	2	0.47
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	2	0.47
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	2	0.47
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	2	0.47
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	2	0.47
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	2	0.47
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	2	0.47
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	2	0.47
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	2	0.47
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	2	0.47
(1,1435)	1:106:A:THR:H	1:107:A:ASN:H	2	0.47
(1,1434)	1:107:A:ASN:H	1:106:A:THR:H	2	0.47
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	8	0.47
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	8	0.47
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	10	0.47
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	10	0.47
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	6	0.46
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	6	0.46
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	6	0.46
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	7	0.46
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	3	0.46
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	3	0.46
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	6	0.46
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	6	0.46
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	6	0.46
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	6	0.46
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	6	0.46
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	6	0.46
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	6	0.46
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	6	0.46
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	6	0.46
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	6	0.46
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	6	0.46
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	6	0.46
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	6	0.46
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	6	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	6	0.46
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	6	0.46
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	6	0.46
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	6	0.46
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	9	0.46
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	9	0.46
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	9	0.46
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	9	0.46
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	9	0.46
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	9	0.46
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	9	0.46
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	9	0.46
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	9	0.46
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	6	0.46
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	6	0.46
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	8	0.46
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	8	0.46
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	8	0.46
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	8	0.46
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	8	0.46
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	8	0.46
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	7	0.46
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	7	0.46
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	7	0.46
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD11	6	0.46
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD12	6	0.46
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD13	6	0.46
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD11	8	0.46
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD12	8	0.46
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD13	8	0.46
(1,2272)	1:146:A:LEU:HD11	1:143:A:GLY:H	8	0.46
(1,2272)	1:146:A:LEU:HD12	1:143:A:GLY:H	8	0.46
(1,2272)	1:146:A:LEU:HD13	1:143:A:GLY:H	8	0.46
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	6	0.46
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	6	0.46
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	5	0.46
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	5	0.46
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	10	0.46
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	10	0.46
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	10	0.46
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	10	0.46
(1,5213)	1:246:A:ARG:HG2	1:244:A:SER:HB2	3	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5212)	1:244:A:SER:HB2	1:246:A:ARG:HG2	3	0.45
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD21	10	0.45
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD22	10	0.45
(1,5095)	1:242:A:TRP:HZ2	1:231:A:LEU:HD23	10	0.45
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	3	0.45
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	7	0.45
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	3	0.45
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	7	0.45
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	6	0.45
(1,4865)	1:220:A:LEU:HD21	1:239:A:ARG:HB3	9	0.45
(1,4865)	1:220:A:LEU:HD22	1:239:A:ARG:HB3	9	0.45
(1,4865)	1:220:A:LEU:HD23	1:239:A:ARG:HB3	9	0.45
(1,4864)	1:239:A:ARG:HB3	1:220:A:LEU:HD21	9	0.45
(1,4864)	1:239:A:ARG:HB3	1:220:A:LEU:HD22	9	0.45
(1,4864)	1:239:A:ARG:HB3	1:220:A:LEU:HD23	9	0.45
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	5	0.45
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	5	0.45
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	5	0.45
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	5	0.45
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	4	0.45
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	4	0.45
(1,4034)	1:204:A:LYS:H	1:207:A:LYS:H	9	0.45
(1,3976)	1:205:A:LEU:HG	1:202:A:PRO:HG2	1	0.45
(1,3975)	1:202:A:PRO:HG2	1:205:A:LEU:HG	1	0.45
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	9	0.45
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	9	0.45
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	9	0.45
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	5	0.45
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	5	0.45
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	5	0.45
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	4	0.45
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	4	0.45
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	4	0.45
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD11	2	0.45
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD12	2	0.45
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD13	2	0.45
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	1	0.45
(1,1834)	1:124:A:MET:HG2	1:127:A:GLY:H	8	0.45
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	9	0.45
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	9	0.45
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	9	0.45
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG21	3	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG22	3	0.45
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG23	3	0.45
(1,1435)	1:106:A:THR:H	1:107:A:ASN:H	6	0.45
(1,1434)	1:107:A:ASN:H	1:106:A:THR:H	6	0.45
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	5	0.45
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	5	0.45
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	5	0.45
(1,1233)	1:99:A:LEU:HD21	1:80:A:ALA:HA	10	0.45
(1,1233)	1:99:A:LEU:HD22	1:80:A:ALA:HA	10	0.45
(1,1233)	1:99:A:LEU:HD23	1:80:A:ALA:HA	10	0.45
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD21	10	0.45
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD22	10	0.45
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD23	10	0.45
(1,1062)	1:84:A:LEU:HD21	1:89:A:ASP:HB3	1	0.45
(1,1062)	1:84:A:LEU:HD22	1:89:A:ASP:HB3	1	0.45
(1,1062)	1:84:A:LEU:HD23	1:89:A:ASP:HB3	1	0.45
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD21	1	0.45
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD22	1	0.45
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD23	1	0.45
(1,830)	1:73:A:THR:HB	1:75:A:SER:H	4	0.45
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	9	0.45
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	8	0.45
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	8	0.45
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	8	0.45
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	8	0.45
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	2	0.45
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	6	0.44
(1,5071)	1:228:A:LYS:HB3	1:242:A:TRP:H	2	0.44
(1,4995)	1:220:A:LEU:HG	1:241:A:ALA:HB1	9	0.44
(1,4995)	1:220:A:LEU:HG	1:241:A:ALA:HB2	9	0.44
(1,4995)	1:220:A:LEU:HG	1:241:A:ALA:HB3	9	0.44
(1,4994)	1:241:A:ALA:HB1	1:220:A:LEU:HG	9	0.44
(1,4994)	1:241:A:ALA:HB2	1:220:A:LEU:HG	9	0.44
(1,4994)	1:241:A:ALA:HB3	1:220:A:LEU:HG	9	0.44
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	2	0.44
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	2	0.44
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	2	0.44
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	10	0.44
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	10	0.44
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	10	0.44
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	10	0.44
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	10	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	10	0.44
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	8	0.44
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	8	0.44
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	1	0.44
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	1	0.44
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	1	0.44
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	7	0.44
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	7	0.44
(1,3106)	1:177:A:ILE:HG21	1:85:A:GLY:HA3	9	0.44
(1,3106)	1:177:A:ILE:HG22	1:85:A:GLY:HA3	9	0.44
(1,3106)	1:177:A:ILE:HG23	1:85:A:GLY:HA3	9	0.44
(1,3105)	1:85:A:GLY:HA3	1:177:A:ILE:HG21	9	0.44
(1,3105)	1:85:A:GLY:HA3	1:177:A:ILE:HG22	9	0.44
(1,3105)	1:85:A:GLY:HA3	1:177:A:ILE:HG23	9	0.44
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	7	0.44
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	7	0.44
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	7	0.44
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG21	7	0.44
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG22	7	0.44
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG23	7	0.44
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG21	7	0.44
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG22	7	0.44
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG23	7	0.44
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG21	7	0.44
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG22	7	0.44
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG23	7	0.44
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD11	7	0.44
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD12	7	0.44
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD13	7	0.44
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD11	7	0.44
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD12	7	0.44
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD13	7	0.44
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD11	7	0.44
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD12	7	0.44
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD13	7	0.44
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	1	0.44
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	10	0.44
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	10	0.44
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE1	5	0.44
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE2	5	0.44
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE1	5	0.44
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE2	5	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE1	5	0.44
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE2	5	0.44
(1,1703)	1:88:A:VAL:HG11	1:123:A:ALA:H	3	0.44
(1,1703)	1:88:A:VAL:HG12	1:123:A:ALA:H	3	0.44
(1,1703)	1:88:A:VAL:HG13	1:123:A:ALA:H	3	0.44
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	6	0.44
(1,1054)	1:88:A:VAL:HB	1:88:A:VAL:H	1	0.44
(1,1054)	1:88:A:VAL:HB	1:88:A:VAL:H	8	0.44
(1,592)	1:61:A:GLN:HG2	1:65:A:GLU:HB3	4	0.44
(1,591)	1:65:A:GLU:HB3	1:61:A:GLN:HG2	4	0.44
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	7	0.44
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	7	0.44
(1,23)	1:43:A:HIS:HA	1:46:A:ASP:H	10	0.44
(2,19)	1:165:A:PHE:H	1:168:A:ALA:O	4	0.43
(1,5148)	1:243:A:VAL:HG21	1:229:A:GLU:H	5	0.43
(1,5148)	1:243:A:VAL:HG22	1:229:A:GLU:H	5	0.43
(1,5148)	1:243:A:VAL:HG23	1:229:A:GLU:H	5	0.43
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD11	4	0.43
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD12	4	0.43
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD13	4	0.43
(1,4859)	1:220:A:LEU:HD11	1:239:A:ARG:HA	9	0.43
(1,4859)	1:220:A:LEU:HD12	1:239:A:ARG:HA	9	0.43
(1,4859)	1:220:A:LEU:HD13	1:239:A:ARG:HA	9	0.43
(1,4858)	1:239:A:ARG:HA	1:220:A:LEU:HD11	9	0.43
(1,4858)	1:239:A:ARG:HA	1:220:A:LEU:HD12	9	0.43
(1,4858)	1:239:A:ARG:HA	1:220:A:LEU:HD13	9	0.43
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE1	5	0.43
(1,4744)	1:234:A:GLU:HB3	1:162:A:TYR:HE2	5	0.43
(1,4743)	1:162:A:TYR:HE1	1:234:A:GLU:HB3	5	0.43
(1,4743)	1:162:A:TYR:HE2	1:234:A:GLU:HB3	5	0.43
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD11	4	0.43
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD12	4	0.43
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD13	4	0.43
(1,4571)	1:220:A:LEU:HD11	1:228:A:LYS:HE3	4	0.43
(1,4571)	1:220:A:LEU:HD12	1:228:A:LYS:HE3	4	0.43
(1,4571)	1:220:A:LEU:HD13	1:228:A:LYS:HE3	4	0.43
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	9	0.43
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	9	0.43
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	9	0.43
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE1	6	0.43
(1,4214)	1:208:A:LEU:HG	1:212:A:TYR:HE2	6	0.43
(1,4213)	1:212:A:TYR:HE1	1:208:A:LEU:HG	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4213)	1:212:A:TYR:HE2	1:208:A:LEU:HG	6	0.43
(1,4034)	1:204:A:LYS:H	1:207:A:LYS:H	2	0.43
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB1	3	0.43
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB2	3	0.43
(1,3715)	1:197:A:VAL:HG21	1:123:A:ALA:HB3	3	0.43
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB1	3	0.43
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB2	3	0.43
(1,3715)	1:197:A:VAL:HG22	1:123:A:ALA:HB3	3	0.43
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB1	3	0.43
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB2	3	0.43
(1,3715)	1:197:A:VAL:HG23	1:123:A:ALA:HB3	3	0.43
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG21	3	0.43
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG22	3	0.43
(1,3714)	1:123:A:ALA:HB1	1:197:A:VAL:HG23	3	0.43
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG21	3	0.43
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG22	3	0.43
(1,3714)	1:123:A:ALA:HB2	1:197:A:VAL:HG23	3	0.43
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG21	3	0.43
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG22	3	0.43
(1,3714)	1:123:A:ALA:HB3	1:197:A:VAL:HG23	3	0.43
(1,3662)	1:196:A:PHE:HD1	1:110:A:ASP:H	8	0.43
(1,3662)	1:196:A:PHE:HD2	1:110:A:ASP:H	8	0.43
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	8	0.43
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	8	0.43
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	8	0.43
(1,2720)	1:134:A:LEU:HD21	1:165:A:PHE:HD1	4	0.43
(1,2720)	1:134:A:LEU:HD21	1:165:A:PHE:HD2	4	0.43
(1,2720)	1:134:A:LEU:HD22	1:165:A:PHE:HD1	4	0.43
(1,2720)	1:134:A:LEU:HD22	1:165:A:PHE:HD2	4	0.43
(1,2720)	1:134:A:LEU:HD23	1:165:A:PHE:HD1	4	0.43
(1,2720)	1:134:A:LEU:HD23	1:165:A:PHE:HD2	4	0.43
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	1	0.43
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	1	0.43
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	1	0.43
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	1	0.43
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	1	0.43
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	1	0.43
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD11	2	0.43
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD12	2	0.43
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD13	2	0.43
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD11	2	0.43
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD12	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD13	2	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD11	2	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD12	2	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD13	2	0.43
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD11	5	0.43
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD12	5	0.43
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD13	5	0.43
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD11	5	0.43
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD12	5	0.43
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD13	5	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD11	5	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD12	5	0.43
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD13	5	0.43
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	7	0.43
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	7	0.43
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	5	0.43
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	5	0.43
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	5	0.43
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	2	0.43
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	3	0.43
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	2	0.43
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	3	0.43
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	5	0.43
(1,1674)	1:112:A:VAL:HG11	1:122:A:TYR:HE1	1	0.43
(1,1674)	1:112:A:VAL:HG11	1:122:A:TYR:HE2	1	0.43
(1,1674)	1:112:A:VAL:HG12	1:122:A:TYR:HE1	1	0.43
(1,1674)	1:112:A:VAL:HG12	1:122:A:TYR:HE2	1	0.43
(1,1674)	1:112:A:VAL:HG13	1:122:A:TYR:HE1	1	0.43
(1,1674)	1:112:A:VAL:HG13	1:122:A:TYR:HE2	1	0.43
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG11	1	0.43
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG12	1	0.43
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG13	1	0.43
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG11	1	0.43
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG12	1	0.43
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG13	1	0.43
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	4	0.43
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG21	6	0.43
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG22	6	0.43
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG23	6	0.43
(1,749)	1:72:A:THR:HG21	1:69:A:GLN:HG2	6	0.43
(1,749)	1:72:A:THR:HG22	1:69:A:GLN:HG2	6	0.43
(1,749)	1:72:A:THR:HG23	1:69:A:GLN:HG2	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	8	0.43
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	8	0.43
(1,471)	1:57:A:GLU:HG2	1:61:A:GLN:HB2	2	0.43
(1,470)	1:61:A:GLN:HB2	1:57:A:GLU:HG2	2	0.43
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	4	0.43
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	4	0.43
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	1	0.43
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	1	0.43
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	5	0.43
(1,5100)	1:240:A:LEU:HD21	1:242:A:TRP:HZ3	9	0.42
(1,5100)	1:240:A:LEU:HD22	1:242:A:TRP:HZ3	9	0.42
(1,5100)	1:240:A:LEU:HD23	1:242:A:TRP:HZ3	9	0.42
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	4	0.42
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	4	0.42
(1,4982)	1:241:A:ALA:HB1	1:218:A:HIS:HD2	5	0.42
(1,4982)	1:241:A:ALA:HB2	1:218:A:HIS:HD2	5	0.42
(1,4982)	1:241:A:ALA:HB3	1:218:A:HIS:HD2	5	0.42
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB1	5	0.42
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB2	5	0.42
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB3	5	0.42
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	2	0.42
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD11	8	0.42
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD12	8	0.42
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD13	8	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	1	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	1	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	1	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	1	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	1	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	1	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	1	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	1	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	1	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	2	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	2	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	2	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	2	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	2	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	2	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	2	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	2	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	2	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	8	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	8	0.42
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	8	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	8	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	8	0.42
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	8	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	8	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	8	0.42
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	8	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	1	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	1	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	1	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	1	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	1	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	1	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	1	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	1	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	1	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	2	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	2	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	2	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	2	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	2	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	2	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	2	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	2	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	2	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	8	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	8	0.42
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	8	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	8	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	8	0.42
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	8	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	8	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	8	0.42
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	8	0.42
(1,4600)	1:229:A:GLU:HA	1:228:A:LYS:H	6	0.42
(1,4570)	1:220:A:LEU:HD11	1:228:A:LYS:HD2	8	0.42
(1,4570)	1:220:A:LEU:HD12	1:228:A:LYS:HD2	8	0.42
(1,4570)	1:220:A:LEU:HD13	1:228:A:LYS:HD2	8	0.42
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD11	8	0.42
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD12	8	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4569)	1:228:A:LYS:HD2	1:220:A:LEU:HD13	8	0.42
(1,4031)	1:207:A:LYS:HG3	1:204:A:LYS:HG2	9	0.42
(1,4030)	1:204:A:LYS:HG2	1:207:A:LYS:HG3	9	0.42
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	8	0.42
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	8	0.42
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	8	0.42
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	8	0.42
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	8	0.42
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	8	0.42
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	8	0.42
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	8	0.42
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	8	0.42
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	2	0.42
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	2	0.42
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	3	0.42
(1,2689)	1:163:A:VAL:HG21	1:161:A:ARG:HG2	10	0.42
(1,2689)	1:163:A:VAL:HG22	1:161:A:ARG:HG2	10	0.42
(1,2689)	1:163:A:VAL:HG23	1:161:A:ARG:HG2	10	0.42
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG21	10	0.42
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG22	10	0.42
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG23	10	0.42
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	7	0.42
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	7	0.42
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	7	0.42
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	4	0.42
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	6	0.42
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	6	0.42
(1,1535)	1:114:A:VAL:HB	1:114:A:VAL:H	8	0.42
(1,1216)	1:97:A:ASN:H	1:98:A:ASN:H	5	0.42
(1,1215)	1:98:A:ASN:H	1:97:A:ASN:H	5	0.42
(1,1054)	1:88:A:VAL:HB	1:88:A:VAL:H	3	0.42
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	6	0.42
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	6	0.42
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	10	0.42
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	6	0.42
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	10	0.42
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG21	3	0.42
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG22	3	0.42
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG23	3	0.42
(1,109)	1:49:A:ILE:HG21	1:46:A:ASP:HB3	3	0.42
(1,109)	1:49:A:ILE:HG22	1:46:A:ASP:HB3	3	0.42
(1,109)	1:49:A:ILE:HG23	1:46:A:ASP:HB3	3	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:43:A:HIS:HA	1:46:A:ASP:H	7	0.42
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	1	0.41
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	7	0.41
(1,5071)	1:228:A:LYS:HB3	1:242:A:TRP:H	8	0.41
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	10	0.41
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	10	0.41
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	3	0.41
(1,4955)	1:232:A:ALA:HA	1:240:A:LEU:H	8	0.41
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	2	0.41
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	7	0.41
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	8	0.41
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	9	0.41
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	2	0.41
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	7	0.41
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	8	0.41
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	9	0.41
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	7	0.41
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	7	0.41
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	7	0.41
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	7	0.41
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	7	0.41
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	7	0.41
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	7	0.41
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	7	0.41
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	7	0.41
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	7	0.41
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	7	0.41
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	7	0.41
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	7	0.41
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	7	0.41
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	7	0.41
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	7	0.41
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	7	0.41
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	7	0.41
(1,4476)	1:220:A:LEU:HD11	1:218:A:HIS:HD2	5	0.41
(1,4476)	1:220:A:LEU:HD12	1:218:A:HIS:HD2	5	0.41
(1,4476)	1:220:A:LEU:HD13	1:218:A:HIS:HD2	5	0.41
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD11	5	0.41
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD12	5	0.41
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD13	5	0.41
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	2	0.41
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	2	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	2	0.41
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	2	0.41
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	2	0.41
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	2	0.41
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE1	1	0.41
(1,4196)	1:58:A:LYS:HG2	1:212:A:TYR:HE2	1	0.41
(1,4195)	1:212:A:TYR:HE1	1:58:A:LYS:HG2	1	0.41
(1,4195)	1:212:A:TYR:HE2	1:58:A:LYS:HG2	1	0.41
(1,3785)	1:110:A:ASP:HA	1:199:A:ARG:H	7	0.41
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	3	0.41
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	3	0.41
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	3	0.41
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	3	0.41
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	3	0.41
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	3	0.41
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	3	0.41
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	3	0.41
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	3	0.41
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG11	6	0.41
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG12	6	0.41
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG13	6	0.41
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG11	6	0.41
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG12	6	0.41
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG13	6	0.41
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG11	6	0.41
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG12	6	0.41
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG13	6	0.41
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD11	6	0.41
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD12	6	0.41
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD13	6	0.41
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD11	6	0.41
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD12	6	0.41
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD13	6	0.41
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD11	6	0.41
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD12	6	0.41
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD13	6	0.41
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	2	0.41
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	6	0.41
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	10	0.41
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	9	0.41
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	9	0.41
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	4	0.41
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	4	0.41
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	4	0.41
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	4	0.41
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	4	0.41
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	4	0.41
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	1	0.41
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	2	0.41
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	1	0.41
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	2	0.41
(1,1103)	1:83:A:TYR:HE1	1:92:A:TRP:HE1	7	0.41
(1,1103)	1:83:A:TYR:HE2	1:92:A:TRP:HE1	7	0.41
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	4	0.41
(1,570)	1:64:A:ARG:HD2	1:61:A:GLN:H	3	0.41
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	1	0.41
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	1	0.41
(1,312)	1:53:A:HIS:HB2	1:56:A:VAL:HB	9	0.41
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	6	0.41
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	6	0.41
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	2	0.41
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	2	0.41
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	2	0.41
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	2	0.41
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	2	0.41
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	2	0.41
(1,144)	1:47:A:ILE:HB	1:50:A:GLU:HG2	9	0.41
(1,143)	1:50:A:GLU:HG2	1:47:A:ILE:HB	9	0.41
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB1	6	0.41
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB2	6	0.41
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB3	6	0.41
(1,72)	1:48:A:ALA:HB1	1:44:A:GLN:HG2	6	0.41
(1,72)	1:48:A:ALA:HB2	1:44:A:GLN:HG2	6	0.41
(1,72)	1:48:A:ALA:HB3	1:44:A:GLN:HG2	6	0.41
(1,5211)	1:49:A:ILE:HG21	1:246:A:ARG:HD3	5	0.4
(1,5211)	1:49:A:ILE:HG22	1:246:A:ARG:HD3	5	0.4
(1,5211)	1:49:A:ILE:HG23	1:246:A:ARG:HD3	5	0.4
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG21	5	0.4
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG22	5	0.4
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG23	5	0.4
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	2	0.4
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	5	0.4
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	6	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	2	0.4
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	5	0.4
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	6	0.4
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	5	0.4
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	6	0.4
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	5	0.4
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	6	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	4	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	4	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	4	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	4	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	4	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	4	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	4	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	4	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	4	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	5	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	5	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	5	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	5	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	5	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	5	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	5	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	5	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	5	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	10	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	10	0.4
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	10	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	10	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	10	0.4
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	10	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	10	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	10	0.4
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	10	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	4	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	4	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	4	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	4	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	4	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	4	0.4
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	4	0.4
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	4	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	4	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	5	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	5	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	5	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	5	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	5	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	5	0.4
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	5	0.4
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	5	0.4
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	5	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	10	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	10	0.4
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	10	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	10	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	10	0.4
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	10	0.4
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	10	0.4
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	10	0.4
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	10	0.4
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	2	0.4
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	2	0.4
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	2	0.4
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	10	0.4
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	10	0.4
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	10	0.4
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	10	0.4
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	10	0.4
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	10	0.4
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	5	0.4
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	5	0.4
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	5	0.4
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	5	0.4
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	5	0.4
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	5	0.4
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	8	0.4
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	8	0.4
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	8	0.4
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	8	0.4
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	9	0.4
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	9	0.4
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	9	0.4
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD21	9	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD22	9	0.4
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD23	9	0.4
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD21	9	0.4
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD22	9	0.4
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD23	9	0.4
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD21	9	0.4
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD22	9	0.4
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD23	9	0.4
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	2	0.4
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	2	0.4
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	2	0.4
(1,3124)	1:76:A:PHE:HD1	1:178:A:LYS:H	1	0.4
(1,3124)	1:76:A:PHE:HD2	1:178:A:LYS:H	1	0.4
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	1	0.4
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	8	0.4
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	10	0.4
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	10	0.4
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	7	0.4
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	7	0.4
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	7	0.4
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	7	0.4
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	7	0.4
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	7	0.4
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	2	0.4
(1,2273)	1:143:A:GLY:HA3	1:146:A:LEU:H	7	0.4
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	9	0.4
(1,1949)	1:132:A:ARG:HG3	1:131:A:GLU:H	6	0.4
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	7	0.4
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	7	0.4
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG21	2	0.4
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG22	2	0.4
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG23	2	0.4
(1,1645)	1:88:A:VAL:HG21	1:122:A:TYR:HB3	2	0.4
(1,1645)	1:88:A:VAL:HG22	1:122:A:TYR:HB3	2	0.4
(1,1645)	1:88:A:VAL:HG23	1:122:A:TYR:HB3	2	0.4
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	5	0.4
(1,1063)	1:87:A:ARG:HA	1:89:A:ASP:H	6	0.4
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	10	0.4
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	4	0.4
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	4	0.4
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	3	0.4
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	3	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	3	0.4
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	3	0.4
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	5	0.4
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	5	0.4
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	10	0.4
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	10	0.4
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	5	0.4
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	5	0.4
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	10	0.4
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	10	0.4
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	5	0.4
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	8	0.4
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	5	0.4
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	8	0.4
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	8	0.4
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	8	0.4
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	8	0.4
(1,4891)	1:232:A:ALA:HB1	1:239:A:ARG:HD2	9	0.39
(1,4891)	1:232:A:ALA:HB2	1:239:A:ARG:HD2	9	0.39
(1,4891)	1:232:A:ALA:HB3	1:239:A:ARG:HD2	9	0.39
(1,4890)	1:239:A:ARG:HD2	1:232:A:ALA:HB1	9	0.39
(1,4890)	1:239:A:ARG:HD2	1:232:A:ALA:HB2	9	0.39
(1,4890)	1:239:A:ARG:HD2	1:232:A:ALA:HB3	9	0.39
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	2	0.39
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	2	0.39
(1,3937)	1:204:A:LYS:HE2	1:201:A:THR:H	8	0.39
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	8	0.39
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	8	0.39
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	8	0.39
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	8	0.39
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	8	0.39
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	8	0.39
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	2	0.39
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	2	0.39
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	2	0.39
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	3	0.39
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	3	0.39
(1,3524)	1:194:A:MET:HE1	1:84:A:LEU:HG	8	0.39
(1,3524)	1:194:A:MET:HE2	1:84:A:LEU:HG	8	0.39
(1,3524)	1:194:A:MET:HE3	1:84:A:LEU:HG	8	0.39
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE1	8	0.39
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE2	8	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE3	8	0.39
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG11	10	0.39
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG12	10	0.39
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG13	10	0.39
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG11	10	0.39
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG12	10	0.39
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG13	10	0.39
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG11	10	0.39
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG12	10	0.39
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG13	10	0.39
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD11	10	0.39
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD12	10	0.39
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD13	10	0.39
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD11	10	0.39
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD12	10	0.39
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD13	10	0.39
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD11	10	0.39
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD12	10	0.39
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD13	10	0.39
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	1	0.39
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	7	0.39
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	7	0.39
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	7	0.39
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	7	0.39
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	7	0.39
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	7	0.39
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	7	0.39
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	7	0.39
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	7	0.39
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	2	0.39
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	2	0.39
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	2	0.39
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	2	0.39
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	2	0.39
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	2	0.39
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	4	0.39
(1,2735)	1:163:A:VAL:HG11	1:165:A:PHE:HD1	9	0.39
(1,2735)	1:163:A:VAL:HG11	1:165:A:PHE:HD2	9	0.39
(1,2735)	1:163:A:VAL:HG12	1:165:A:PHE:HD1	9	0.39
(1,2735)	1:163:A:VAL:HG12	1:165:A:PHE:HD2	9	0.39
(1,2735)	1:163:A:VAL:HG13	1:165:A:PHE:HD1	9	0.39
(1,2735)	1:163:A:VAL:HG13	1:165:A:PHE:HD2	9	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG11	9	0.39
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG12	9	0.39
(1,2734)	1:165:A:PHE:HD1	1:163:A:VAL:HG13	9	0.39
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG11	9	0.39
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG12	9	0.39
(1,2734)	1:165:A:PHE:HD2	1:163:A:VAL:HG13	9	0.39
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	9	0.39
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	9	0.39
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	9	0.39
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	4	0.39
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	4	0.39
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	4	0.39
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	4	0.39
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	4	0.39
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	4	0.39
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	4	0.39
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	4	0.39
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	4	0.39
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	4	0.39
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	4	0.39
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	4	0.39
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	4	0.39
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	4	0.39
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	4	0.39
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	4	0.39
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	4	0.39
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	4	0.39
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG21	10	0.39
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG22	10	0.39
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG23	10	0.39
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG21	10	0.39
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG22	10	0.39
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG23	10	0.39
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG21	10	0.39
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG22	10	0.39
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG23	10	0.39
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD11	10	0.39
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD12	10	0.39
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD13	10	0.39
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD11	10	0.39
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD12	10	0.39
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD13	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD11	10	0.39
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD12	10	0.39
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD13	10	0.39
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	1	0.39
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	1	0.39
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	1	0.39
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	1	0.39
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	1	0.39
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	1	0.39
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	1	0.39
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	1	0.39
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	1	0.39
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	1	0.39
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	1	0.39
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	1	0.39
(1,1676)	1:112:A:VAL:HG21	1:122:A:TYR:HE1	8	0.39
(1,1676)	1:112:A:VAL:HG21	1:122:A:TYR:HE2	8	0.39
(1,1676)	1:112:A:VAL:HG22	1:122:A:TYR:HE1	8	0.39
(1,1676)	1:112:A:VAL:HG22	1:122:A:TYR:HE2	8	0.39
(1,1676)	1:112:A:VAL:HG23	1:122:A:TYR:HE1	8	0.39
(1,1676)	1:112:A:VAL:HG23	1:122:A:TYR:HE2	8	0.39
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG21	8	0.39
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG22	8	0.39
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG23	8	0.39
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG21	8	0.39
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG22	8	0.39
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG23	8	0.39
(1,1292)	1:102:A:VAL:HG11	1:98:A:ASN:HA	7	0.39
(1,1292)	1:102:A:VAL:HG12	1:98:A:ASN:HA	7	0.39
(1,1292)	1:102:A:VAL:HG13	1:98:A:ASN:HA	7	0.39
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG11	7	0.39
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG12	7	0.39
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG13	7	0.39
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	10	0.39
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	10	0.39
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	10	0.39
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	10	0.39
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	10	0.39
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	10	0.39
(1,544)	1:60:A:LEU:HG	1:63:A:ARG:HG2	7	0.39
(1,543)	1:63:A:ARG:HG2	1:60:A:LEU:HG	7	0.39
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	4	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	8	0.39
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	8	0.39
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	8	0.39
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	8	0.39
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	8	0.39
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	8	0.39
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	6	0.39
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	6	0.39
(1,5207)	1:48:A:ALA:HB1	1:246:A:ARG:H	10	0.38
(1,5207)	1:48:A:ALA:HB2	1:246:A:ARG:H	10	0.38
(1,5207)	1:48:A:ALA:HB3	1:246:A:ARG:H	10	0.38
(1,4951)	1:230:A:SER:HB3	1:240:A:LEU:H	8	0.38
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	1	0.38
(1,4758)	1:234:A:GLU:HG3	1:233:A:LEU:HA	10	0.38
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	1	0.38
(1,4757)	1:233:A:LEU:HA	1:234:A:GLU:HG3	10	0.38
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	1	0.38
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	1	0.38
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	1	0.38
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	1	0.38
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	8	0.38
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	8	0.38
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	8	0.38
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	8	0.38
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	8	0.38
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	8	0.38
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	3	0.38
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	3	0.38
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	3	0.38
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	2	0.38
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	2	0.38
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	2	0.38
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	2	0.38
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	2	0.38
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	2	0.38
(1,2432)	1:149:A:ALA:HA	1:153:A:ALA:H	6	0.38
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	10	0.38
(1,2324)	1:145:A:ILE:HD11	1:148:A:SER:HB2	4	0.38
(1,2324)	1:145:A:ILE:HD12	1:148:A:SER:HB2	4	0.38
(1,2324)	1:145:A:ILE:HD13	1:148:A:SER:HB2	4	0.38
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD11	4	0.38
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD12	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2323)	1:148:A:SER:HB2	1:145:A:ILE:HD13	4	0.38
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	2	0.38
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	2	0.38
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	2	0.38
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE1	7	0.38
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE2	7	0.38
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE1	7	0.38
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE2	7	0.38
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE1	7	0.38
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE2	7	0.38
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	3	0.38
(1,1435)	1:106:A:THR:H	1:107:A:ASN:H	3	0.38
(1,1434)	1:107:A:ASN:H	1:106:A:THR:H	3	0.38
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	7	0.38
(1,1075)	1:88:A:VAL:HG11	1:90:A:ALA:HA	3	0.38
(1,1075)	1:88:A:VAL:HG12	1:90:A:ALA:HA	3	0.38
(1,1075)	1:88:A:VAL:HG13	1:90:A:ALA:HA	3	0.38
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG11	3	0.38
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG12	3	0.38
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG13	3	0.38
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	8	0.38
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	8	0.38
(1,656)	1:64:A:ARG:HB2	1:68:A:GLU:HG2	2	0.38
(1,655)	1:68:A:GLU:HG2	1:64:A:ARG:HB2	2	0.38
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	4	0.38
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	4	0.38
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	4	0.38
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	4	0.38
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	5	0.38
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	5	0.38
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	3	0.37
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	6	0.37
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	6	0.37
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	7	0.37
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	7	0.37
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	7	0.37
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	7	0.37
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	7	0.37
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	7	0.37
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	5	0.37
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	3	0.37
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	3	0.37
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	3	0.37
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	3	0.37
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	3	0.37
(1,2879)	1:163:A:VAL:HG11	1:171:A:ILE:H	3	0.37
(1,2879)	1:163:A:VAL:HG12	1:171:A:ILE:H	3	0.37
(1,2879)	1:163:A:VAL:HG13	1:171:A:ILE:H	3	0.37
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	7	0.37
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	1	0.37
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	9	0.37
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	9	0.37
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	9	0.37
(1,830)	1:73:A:THR:HB	1:75:A:SER:H	8	0.37
(1,748)	1:72:A:THR:HG21	1:69:A:GLN:HB3	8	0.37
(1,748)	1:72:A:THR:HG22	1:69:A:GLN:HB3	8	0.37
(1,748)	1:72:A:THR:HG23	1:69:A:GLN:HB3	8	0.37
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG21	8	0.37
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG22	8	0.37
(1,747)	1:69:A:GLN:HB3	1:72:A:THR:HG23	8	0.37
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	3	0.37
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	5	0.37
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	5	0.37
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	8	0.37
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	1	0.37
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	1	0.37
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	3	0.37
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	3	0.37
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	6	0.37
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	6	0.37
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	6	0.37
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	6	0.37
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG21	1	0.36
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG22	1	0.36
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG23	1	0.36
(1,5164)	1:49:A:ILE:HG21	1:244:A:SER:HB3	1	0.36
(1,5164)	1:49:A:ILE:HG22	1:244:A:SER:HB3	1	0.36
(1,5164)	1:49:A:ILE:HG23	1:244:A:SER:HB3	1	0.36
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	7	0.36
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	7	0.36
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	7	0.36
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	9	0.36
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	9	0.36
(1,4260)	1:214:A:ILE:HD11	1:52:A:SER:HB3	9	0.36
(1,4260)	1:214:A:ILE:HD12	1:52:A:SER:HB3	9	0.36
(1,4260)	1:214:A:ILE:HD13	1:52:A:SER:HB3	9	0.36
(1,4259)	1:52:A:SER:HB3	1:214:A:ILE:HD11	9	0.36
(1,4259)	1:52:A:SER:HB3	1:214:A:ILE:HD12	9	0.36
(1,4259)	1:52:A:SER:HB3	1:214:A:ILE:HD13	9	0.36
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	1	0.36
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	1	0.36
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	1	0.36
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	1	0.36
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	1	0.36
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	1	0.36
(1,2916)	1:145:A:ILE:HG21	1:172:A:LEU:HG	9	0.36
(1,2916)	1:145:A:ILE:HG22	1:172:A:LEU:HG	9	0.36
(1,2916)	1:145:A:ILE:HG23	1:172:A:LEU:HG	9	0.36
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG21	9	0.36
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG22	9	0.36
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG23	9	0.36
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG21	2	0.36
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG22	2	0.36
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG23	2	0.36
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG21	2	0.36
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG22	2	0.36
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG23	2	0.36
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG21	2	0.36
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG22	2	0.36
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG23	2	0.36
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD11	2	0.36
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD12	2	0.36
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD13	2	0.36
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD11	2	0.36
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD12	2	0.36
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD13	2	0.36
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD11	2	0.36
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD12	2	0.36
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD13	2	0.36
(1,1343)	1:103:A:LEU:HG	1:102:A:VAL:H	3	0.36
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	9	0.36
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	9	0.36
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	9	0.36
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	9	0.36
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	9	0.36
(1,1103)	1:83:A:TYR:HE1	1:92:A:TRP:HE1	3	0.36
(1,1103)	1:83:A:TYR:HE2	1:92:A:TRP:HE1	3	0.36
(1,1054)	1:88:A:VAL:HB	1:88:A:VAL:H	10	0.36
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	5	0.36
(1,656)	1:64:A:ARG:HB2	1:68:A:GLU:HG2	3	0.36
(1,655)	1:68:A:GLU:HG2	1:64:A:ARG:HB2	3	0.36
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	3	0.36
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	3	0.36
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	3	0.36
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	3	0.36
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	1	0.36
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	1	0.36
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	1	0.36
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	1	0.36
(1,5207)	1:48:A:ALA:HB1	1:246:A:ARG:H	6	0.35
(1,5207)	1:48:A:ALA:HB2	1:246:A:ARG:H	6	0.35
(1,5207)	1:48:A:ALA:HB3	1:246:A:ARG:H	6	0.35
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	7	0.35
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	7	0.35
(1,4031)	1:207:A:LYS:HG3	1:204:A:LYS:HG2	7	0.35
(1,4030)	1:204:A:LYS:HG2	1:207:A:LYS:HG3	7	0.35
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	1	0.35
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	1	0.35
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	1	0.35
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	6	0.35
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	6	0.35
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	6	0.35
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	6	0.35
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	6	0.35
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	6	0.35
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	2	0.35
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	2	0.35
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	2	0.35
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	2	0.35
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	2	0.35
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	2	0.35
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	9	0.35
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	9	0.35
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	9	0.35
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	9	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	9	0.35
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	9	0.35
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	9	0.35
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	9	0.35
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	9	0.35
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	9	0.35
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	9	0.35
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	9	0.35
(1,2209)	1:145:A:ILE:HD11	1:142:A:THR:HB	2	0.35
(1,2209)	1:145:A:ILE:HD12	1:142:A:THR:HB	2	0.35
(1,2209)	1:145:A:ILE:HD13	1:142:A:THR:HB	2	0.35
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD11	2	0.35
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD12	2	0.35
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD13	2	0.35
(1,2047)	1:134:A:LEU:HD21	1:137:A:SER:HB2	8	0.35
(1,2047)	1:134:A:LEU:HD22	1:137:A:SER:HB2	8	0.35
(1,2047)	1:134:A:LEU:HD23	1:137:A:SER:HB2	8	0.35
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD21	8	0.35
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD22	8	0.35
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD23	8	0.35
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG21	7	0.35
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG22	7	0.35
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG23	7	0.35
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	8	0.35
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	8	0.35
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	9	0.35
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	9	0.35
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG21	10	0.35
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG22	10	0.35
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG23	10	0.35
(1,1645)	1:88:A:VAL:HG21	1:122:A:TYR:HB3	10	0.35
(1,1645)	1:88:A:VAL:HG22	1:122:A:TYR:HB3	10	0.35
(1,1645)	1:88:A:VAL:HG23	1:122:A:TYR:HB3	10	0.35
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	4	0.35
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	4	0.35
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	4	0.35
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	4	0.35
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	4	0.35
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	4	0.35
(1,1103)	1:83:A:TYR:HE1	1:92:A:TRP:HE1	6	0.35
(1,1103)	1:83:A:TYR:HE2	1:92:A:TRP:HE1	6	0.35
(1,887)	1:79:A:ASP:H	1:77:A:TRP:HE1	3	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,886)	1:77:A:TRP:HE1	1:79:A:ASP:H	3	0.35
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	4	0.35
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	1	0.35
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	1	0.35
(1,656)	1:64:A:ARG:HB2	1:68:A:GLU:HG2	6	0.35
(1,655)	1:68:A:GLU:HG2	1:64:A:ARG:HB2	6	0.35
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	9	0.35
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	9	0.35
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	9	0.35
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	9	0.35
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	1	0.35
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	10	0.35
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	4	0.35
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	4	0.35
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	2	0.34
(1,5177)	1:244:A:SER:HB2	1:229:A:GLU:HG2	1	0.34
(1,5176)	1:229:A:GLU:HG2	1:244:A:SER:HB2	1	0.34
(1,5041)	1:53:A:HIS:HD2	1:242:A:TRP:HZ2	9	0.34
(1,5040)	1:242:A:TRP:HZ2	1:53:A:HIS:HD2	9	0.34
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD11	9	0.34
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD12	9	0.34
(1,4698)	1:56:A:VAL:HG21	1:233:A:LEU:HD13	9	0.34
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD11	9	0.34
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD12	9	0.34
(1,4698)	1:56:A:VAL:HG22	1:233:A:LEU:HD13	9	0.34
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD11	9	0.34
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD12	9	0.34
(1,4698)	1:56:A:VAL:HG23	1:233:A:LEU:HD13	9	0.34
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG21	9	0.34
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG22	9	0.34
(1,4697)	1:233:A:LEU:HD11	1:56:A:VAL:HG23	9	0.34
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG21	9	0.34
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG22	9	0.34
(1,4697)	1:233:A:LEU:HD12	1:56:A:VAL:HG23	9	0.34
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG21	9	0.34
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG22	9	0.34
(1,4697)	1:233:A:LEU:HD13	1:56:A:VAL:HG23	9	0.34
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	6	0.34
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	6	0.34
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	6	0.34
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	6	0.34
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	6	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	6	0.34
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	3	0.34
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	3	0.34
(1,4031)	1:207:A:LYS:HG3	1:204:A:LYS:HG2	6	0.34
(1,4030)	1:204:A:LYS:HG2	1:207:A:LYS:HG3	6	0.34
(1,4020)	1:204:A:LYS:HA	1:207:A:LYS:HB2	2	0.34
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	4	0.34
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	4	0.34
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	4	0.34
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	8	0.34
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	3	0.34
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	3	0.34
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	3	0.34
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	4	0.34
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	4	0.34
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	4	0.34
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	4	0.34
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	4	0.34
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	4	0.34
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	5	0.34
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	5	0.34
(1,3356)	1:154:A:VAL:HG11	1:189:A:ALA:H	6	0.34
(1,3356)	1:154:A:VAL:HG12	1:189:A:ALA:H	6	0.34
(1,3356)	1:154:A:VAL:HG13	1:189:A:ALA:H	6	0.34
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	10	0.34
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	10	0.34
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	10	0.34
(1,2975)	1:173:A:VAL:HG21	1:109:A:TYR:HE1	3	0.34
(1,2975)	1:173:A:VAL:HG21	1:109:A:TYR:HE2	3	0.34
(1,2975)	1:173:A:VAL:HG22	1:109:A:TYR:HE1	3	0.34
(1,2975)	1:173:A:VAL:HG22	1:109:A:TYR:HE2	3	0.34
(1,2975)	1:173:A:VAL:HG23	1:109:A:TYR:HE1	3	0.34
(1,2975)	1:173:A:VAL:HG23	1:109:A:TYR:HE2	3	0.34
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG21	3	0.34
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG22	3	0.34
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG23	3	0.34
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG21	3	0.34
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG22	3	0.34
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG23	3	0.34
(1,2879)	1:163:A:VAL:HG11	1:171:A:ILE:H	4	0.34
(1,2879)	1:163:A:VAL:HG12	1:171:A:ILE:H	4	0.34
(1,2879)	1:163:A:VAL:HG13	1:171:A:ILE:H	4	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	1	0.34
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	1	0.34
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	1	0.34
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	5	0.34
(1,2298)	1:144:A:ASP:HB3	1:147:A:ARG:HD2	4	0.34
(1,2297)	1:147:A:ARG:HD2	1:144:A:ASP:HB3	4	0.34
(1,1947)	1:130:A:SER:HA	1:132:A:ARG:H	6	0.34
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	9	0.34
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	9	0.34
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	8	0.34
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE1	9	0.34
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE2	9	0.34
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE1	9	0.34
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE2	9	0.34
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE1	9	0.34
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE2	9	0.34
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG21	7	0.34
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG22	7	0.34
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG23	7	0.34
(1,1645)	1:88:A:VAL:HG21	1:122:A:TYR:HB3	7	0.34
(1,1645)	1:88:A:VAL:HG22	1:122:A:TYR:HB3	7	0.34
(1,1645)	1:88:A:VAL:HG23	1:122:A:TYR:HB3	7	0.34
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	4	0.34
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	4	0.34
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	4	0.34
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	4	0.34
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	4	0.34
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	4	0.34
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	4	0.34
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	4	0.34
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	4	0.34
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	4	0.34
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	4	0.34
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	4	0.34
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	4	0.34
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	4	0.34
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	4	0.34
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	4	0.34
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	4	0.34
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	4	0.34
(1,1379)	1:102:A:VAL:HA	1:105:A:THR:H	8	0.34
(1,1257)	1:99:A:LEU:H	1:98:A:ASN:H	5	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1256)	1:98:A:ASN:H	1:99:A:LEU:H	5	0.34
(1,1216)	1:97:A:ASN:H	1:98:A:ASN:H	8	0.34
(1,1215)	1:98:A:ASN:H	1:97:A:ASN:H	8	0.34
(1,1206)	1:98:A:ASN:HA	1:77:A:TRP:HH2	4	0.34
(1,1097)	1:79:A:ASP:HB2	1:92:A:TRP:HE1	3	0.34
(1,961)	1:79:A:ASP:HB2	1:83:A:TYR:HE1	7	0.34
(1,961)	1:79:A:ASP:HB2	1:83:A:TYR:HE2	7	0.34
(1,960)	1:83:A:TYR:HE1	1:79:A:ASP:HB2	7	0.34
(1,960)	1:83:A:TYR:HE2	1:79:A:ASP:HB2	7	0.34
(1,827)	1:72:A:THR:HA	1:75:A:SER:H	2	0.34
(1,824)	1:71:A:SER:HA	1:75:A:SER:H	3	0.34
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	6	0.34
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	6	0.34
(1,500)	1:58:A:LYS:HG2	1:62:A:ASN:HD21	4	0.34
(1,500)	1:58:A:LYS:HG2	1:62:A:ASN:HD22	4	0.34
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	2	0.34
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	7	0.34
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	7	0.34
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	7	0.34
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	10	0.34
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	10	0.34
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	10	0.34
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	7	0.34
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	7	0.34
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	7	0.34
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	10	0.34
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	10	0.34
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	10	0.34
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	2	0.34
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	2	0.34
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	2	0.34
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	4	0.34
(1,5213)	1:246:A:ARG:HG2	1:244:A:SER:HB2	9	0.33
(1,5212)	1:244:A:SER:HB2	1:246:A:ARG:HG2	9	0.33
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	5	0.33
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	5	0.33
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	5	0.33
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	5	0.33
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	7	0.33
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	7	0.33
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	7	0.33
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	5	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	5	0.33
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	5	0.33
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	7	0.33
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	7	0.33
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	7	0.33
(1,4390)	1:217:A:LEU:HG	1:206:A:ALA:H	9	0.33
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	9	0.33
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	9	0.33
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	9	0.33
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	9	0.33
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	9	0.33
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	9	0.33
(1,3927)	1:200:A:LEU:HD21	1:204:A:LYS:HD2	4	0.33
(1,3927)	1:200:A:LEU:HD22	1:204:A:LYS:HD2	4	0.33
(1,3927)	1:200:A:LEU:HD23	1:204:A:LYS:HD2	4	0.33
(1,3926)	1:204:A:LYS:HD2	1:200:A:LEU:HD21	4	0.33
(1,3926)	1:204:A:LYS:HD2	1:200:A:LEU:HD22	4	0.33
(1,3926)	1:204:A:LYS:HD2	1:200:A:LEU:HD23	4	0.33
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	5	0.33
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	5	0.33
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	5	0.33
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	4	0.33
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	9	0.33
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	9	0.33
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	9	0.33
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	9	0.33
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	9	0.33
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	9	0.33
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD21	4	0.33
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD22	4	0.33
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD23	4	0.33
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD21	4	0.33
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD22	4	0.33
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD23	4	0.33
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD21	4	0.33
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD22	4	0.33
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD23	4	0.33
(1,3463)	1:146:A:LEU:HD11	1:193:A:VAL:HB	4	0.33
(1,3463)	1:146:A:LEU:HD12	1:193:A:VAL:HB	4	0.33
(1,3463)	1:146:A:LEU:HD13	1:193:A:VAL:HB	4	0.33
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD11	4	0.33
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD12	4	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD13	4	0.33
(1,3430)	1:192:A:SER:HA	1:117:A:ASP:H	6	0.33
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	9	0.33
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	9	0.33
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	9	0.33
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	9	0.33
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	9	0.33
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	9	0.33
(1,3278)	1:186:A:ILE:HG21	1:183:A:HIS:HD2	6	0.33
(1,3278)	1:186:A:ILE:HG22	1:183:A:HIS:HD2	6	0.33
(1,3278)	1:186:A:ILE:HG23	1:183:A:HIS:HD2	6	0.33
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG21	6	0.33
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG22	6	0.33
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG23	6	0.33
(1,2764)	1:165:A:PHE:H	1:167:A:GLY:H	10	0.33
(1,2763)	1:167:A:GLY:H	1:165:A:PHE:H	10	0.33
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG21	5	0.33
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG22	5	0.33
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG23	5	0.33
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG21	5	0.33
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG22	5	0.33
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG23	5	0.33
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG21	5	0.33
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG22	5	0.33
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG23	5	0.33
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD11	5	0.33
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD12	5	0.33
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD13	5	0.33
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD11	5	0.33
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD12	5	0.33
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD13	5	0.33
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD11	5	0.33
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD12	5	0.33
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD13	5	0.33
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	3	0.33
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	3	0.33
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	3	0.33
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	8	0.33
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	8	0.33
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	8	0.33
(1,2457)	1:154:A:VAL:HG11	1:151:A:ARG:HB3	9	0.33
(1,2457)	1:154:A:VAL:HG12	1:151:A:ARG:HB3	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2457)	1:154:A:VAL:HG13	1:151:A:ARG:HB3	9	0.33
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	8	0.33
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	8	0.33
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	8	0.33
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG11	9	0.33
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG12	9	0.33
(1,2456)	1:151:A:ARG:HB3	1:154:A:VAL:HG13	9	0.33
(1,2122)	1:139:A:ASN:H	1:140:A:ALA:H	3	0.33
(1,2026)	1:136:A:ASP:HB3	1:132:A:ARG:HG3	3	0.33
(1,2025)	1:132:A:ARG:HG3	1:136:A:ASP:HB3	3	0.33
(1,1834)	1:124:A:MET:HG2	1:127:A:GLY:H	3	0.33
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE1	6	0.33
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE2	6	0.33
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE1	6	0.33
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE2	6	0.33
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE1	6	0.33
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE2	6	0.33
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG21	1	0.33
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG22	1	0.33
(1,1646)	1:122:A:TYR:HB3	1:88:A:VAL:HG23	1	0.33
(1,1645)	1:88:A:VAL:HG21	1:122:A:TYR:HB3	1	0.33
(1,1645)	1:88:A:VAL:HG22	1:122:A:TYR:HB3	1	0.33
(1,1645)	1:88:A:VAL:HG23	1:122:A:TYR:HB3	1	0.33
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	2	0.33
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	10	0.33
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	10	0.33
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	10	0.33
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	10	0.33
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	10	0.33
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	10	0.33
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	10	0.33
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	10	0.33
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	10	0.33
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	10	0.33
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	10	0.33
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	10	0.33
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	10	0.33
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	10	0.33
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	10	0.33
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	10	0.33
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	10	0.33
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	10	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1343)	1:103:A:LEU:HG	1:102:A:VAL:H	2	0.33
(1,1292)	1:102:A:VAL:HG11	1:98:A:ASN:HA	4	0.33
(1,1292)	1:102:A:VAL:HG12	1:98:A:ASN:HA	4	0.33
(1,1292)	1:102:A:VAL:HG13	1:98:A:ASN:HA	4	0.33
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG11	4	0.33
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG12	4	0.33
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG13	4	0.33
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	9	0.33
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	9	0.33
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	9	0.33
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	9	0.33
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	9	0.33
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	9	0.33
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	9	0.33
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	9	0.33
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	9	0.33
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	9	0.33
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	9	0.33
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	9	0.33
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG11	1	0.33
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG12	1	0.33
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG13	1	0.33
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG11	1	0.33
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG12	1	0.33
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG13	1	0.33
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG11	1	0.33
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG12	1	0.33
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG13	1	0.33
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG21	1	0.33
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG22	1	0.33
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG23	1	0.33
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG21	1	0.33
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG22	1	0.33
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG23	1	0.33
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG21	1	0.33
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG22	1	0.33
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG23	1	0.33
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE1	8	0.33
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE2	8	0.33
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE1	10	0.33
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE2	10	0.33
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	6	0.32
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD11	9	0.32
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD12	9	0.32
(1,4935)	1:218:A:HIS:HD2	1:240:A:LEU:HD13	9	0.32
(1,4617)	1:220:A:LEU:HD11	1:230:A:SER:H	10	0.32
(1,4617)	1:220:A:LEU:HD12	1:230:A:SER:H	10	0.32
(1,4617)	1:220:A:LEU:HD13	1:230:A:SER:H	10	0.32
(1,4600)	1:229:A:GLU:HA	1:228:A:LYS:H	5	0.32
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	2	0.32
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	1	0.32
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	1	0.32
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	2	0.32
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	2	0.32
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	2	0.32
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	2	0.32
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	2	0.32
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	2	0.32
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	2	0.32
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	2	0.32
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	2	0.32
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	2	0.32
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	2	0.32
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	2	0.32
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	6	0.32
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	6	0.32
(1,4020)	1:204:A:LYS:HA	1:207:A:LYS:HB2	9	0.32
(1,3626)	1:195:A:VAL:HG21	1:193:A:VAL:H	8	0.32
(1,3626)	1:195:A:VAL:HG22	1:193:A:VAL:H	8	0.32
(1,3626)	1:195:A:VAL:HG23	1:193:A:VAL:H	8	0.32
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	8	0.32
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	1	0.32
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	4	0.32
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	6	0.32
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	5	0.32
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	5	0.32
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	5	0.32
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	5	0.32
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	5	0.32
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	5	0.32
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	5	0.32
(1,2726)	1:165:A:PHE:HE1	1:137:A:SER:H	4	0.32
(1,2726)	1:165:A:PHE:HE2	1:137:A:SER:H	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG21	6	0.32
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG22	6	0.32
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG23	6	0.32
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG21	6	0.32
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG22	6	0.32
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG23	6	0.32
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG21	6	0.32
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG22	6	0.32
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG23	6	0.32
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD11	6	0.32
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD12	6	0.32
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD13	6	0.32
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD11	6	0.32
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD12	6	0.32
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD13	6	0.32
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD11	6	0.32
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD12	6	0.32
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD13	6	0.32
(1,2047)	1:134:A:LEU:HD21	1:137:A:SER:HB2	10	0.32
(1,2047)	1:134:A:LEU:HD22	1:137:A:SER:HB2	10	0.32
(1,2047)	1:134:A:LEU:HD23	1:137:A:SER:HB2	10	0.32
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD21	10	0.32
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD22	10	0.32
(1,2046)	1:137:A:SER:HB2	1:134:A:LEU:HD23	10	0.32
(1,1981)	1:113:A:PHE:HE1	1:134:A:LEU:HA	6	0.32
(1,1981)	1:113:A:PHE:HE2	1:134:A:LEU:HA	6	0.32
(1,1934)	1:125:A:LEU:HD21	1:132:A:ARG:HA	2	0.32
(1,1934)	1:125:A:LEU:HD22	1:132:A:ARG:HA	2	0.32
(1,1934)	1:125:A:LEU:HD23	1:132:A:ARG:HA	2	0.32
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD21	2	0.32
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD22	2	0.32
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD23	2	0.32
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	7	0.32
(1,1865)	1:129:A:LEU:HD21	1:94:A:PHE:H	3	0.32
(1,1865)	1:129:A:LEU:HD22	1:94:A:PHE:H	3	0.32
(1,1865)	1:129:A:LEU:HD23	1:94:A:PHE:H	3	0.32
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	5	0.32
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	5	0.32
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG21	1	0.32
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG22	1	0.32
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG23	1	0.32
(1,1602)	1:118:A:ARG:HG2	1:119:A:GLY:H	9	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1459)	1:109:A:TYR:HD1	1:108:A:GLY:H	2	0.32
(1,1459)	1:109:A:TYR:HD2	1:108:A:GLY:H	2	0.32
(1,1343)	1:103:A:LEU:HG	1:102:A:VAL:H	1	0.32
(1,1292)	1:102:A:VAL:HG11	1:98:A:ASN:HA	3	0.32
(1,1292)	1:102:A:VAL:HG12	1:98:A:ASN:HA	3	0.32
(1,1292)	1:102:A:VAL:HG13	1:98:A:ASN:HA	3	0.32
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG11	3	0.32
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG12	3	0.32
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG13	3	0.32
(1,1096)	1:92:A:TRP:HZ2	1:77:A:TRP:HZ2	8	0.32
(1,961)	1:79:A:ASP:HB2	1:83:A:TYR:HE1	5	0.32
(1,961)	1:79:A:ASP:HB2	1:83:A:TYR:HE2	5	0.32
(1,960)	1:83:A:TYR:HE1	1:79:A:ASP:HB2	5	0.32
(1,960)	1:83:A:TYR:HE2	1:79:A:ASP:HB2	5	0.32
(1,502)	1:58:A:LYS:HG2	1:62:A:ASN:HD22	5	0.32
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	2	0.32
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	8	0.32
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG21	1	0.32
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG22	1	0.32
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG23	1	0.32
(1,109)	1:49:A:ILE:HG21	1:46:A:ASP:HB3	1	0.32
(1,109)	1:49:A:ILE:HG22	1:46:A:ASP:HB3	1	0.32
(1,109)	1:49:A:ILE:HG23	1:46:A:ASP:HB3	1	0.32
(1,99)	1:49:A:ILE:HD11	1:46:A:ASP:HB3	6	0.32
(1,99)	1:49:A:ILE:HD12	1:46:A:ASP:HB3	6	0.32
(1,99)	1:49:A:ILE:HD13	1:46:A:ASP:HB3	6	0.32
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	9	0.31
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	9	0.31
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	9	0.31
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	5	0.31
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	5	0.31
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	3	0.31
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	3	0.31
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	3	0.31
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	3	0.31
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	3	0.31
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	3	0.31
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE1	2	0.31
(1,4751)	1:234:A:GLU:HG2	1:162:A:TYR:HE2	2	0.31
(1,4750)	1:162:A:TYR:HE1	1:234:A:GLU:HG2	2	0.31
(1,4750)	1:162:A:TYR:HE2	1:234:A:GLU:HG2	2	0.31
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	10	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	10	0.31
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	10	0.31
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	10	0.31
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	10	0.31
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	10	0.31
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	10	0.31
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	10	0.31
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	10	0.31
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	5	0.31
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	5	0.31
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE1	10	0.31
(1,4274)	1:214:A:ILE:HG13	1:55:A:TYR:HE2	10	0.31
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	3	0.31
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	3	0.31
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	3	0.31
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	3	0.31
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	3	0.31
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	3	0.31
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	6	0.31
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	6	0.31
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	6	0.31
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	6	0.31
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	6	0.31
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	6	0.31
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	3	0.31
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	3	0.31
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	3	0.31
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	3	0.31
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	3	0.31
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	3	0.31
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	6	0.31
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	6	0.31
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	6	0.31
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	6	0.31
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	6	0.31
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	6	0.31
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	3	0.31
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	3	0.31
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	3	0.31
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	3	0.31
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	3	0.31
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	3	0.31
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	3	0.31
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	1	0.31
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	1	0.31
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	1	0.31
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	1	0.31
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	1	0.31
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	1	0.31
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	3	0.31
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	3	0.31
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	3	0.31
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	3	0.31
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	3	0.31
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	3	0.31
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	4	0.31
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	4	0.31
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	4	0.31
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	4	0.31
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	4	0.31
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	4	0.31
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	1	0.31
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	1	0.31
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	1	0.31
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	1	0.31
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	1	0.31
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	1	0.31
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	3	0.31
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	3	0.31
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	3	0.31
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	3	0.31
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	3	0.31
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	3	0.31
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	1	0.31
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	1	0.31
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	1	0.31
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	1	0.31
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	1	0.31
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	1	0.31
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	3	0.31
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	3	0.31
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	3	0.31
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	3	0.31
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	3	0.31
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	3	0.31
(1,2879)	1:163:A:VAL:HG11	1:171:A:ILE:H	9	0.31
(1,2879)	1:163:A:VAL:HG12	1:171:A:ILE:H	9	0.31
(1,2879)	1:163:A:VAL:HG13	1:171:A:ILE:H	9	0.31
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	8	0.31
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	8	0.31
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	8	0.31
(1,2294)	1:144:A:ASP:HB3	1:147:A:ARG:HB3	1	0.31
(1,2293)	1:147:A:ARG:HB3	1:144:A:ASP:HB3	1	0.31
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD11	7	0.31
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD12	7	0.31
(1,2203)	1:140:A:ALA:HB1	1:145:A:ILE:HD13	7	0.31
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD11	7	0.31
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD12	7	0.31
(1,2203)	1:140:A:ALA:HB2	1:145:A:ILE:HD13	7	0.31
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD11	7	0.31
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD12	7	0.31
(1,2203)	1:140:A:ALA:HB3	1:145:A:ILE:HD13	7	0.31
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB1	7	0.31
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB2	7	0.31
(1,2202)	1:145:A:ILE:HD11	1:140:A:ALA:HB3	7	0.31
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB1	7	0.31
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB2	7	0.31
(1,2202)	1:145:A:ILE:HD12	1:140:A:ALA:HB3	7	0.31
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB1	7	0.31
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB2	7	0.31
(1,2202)	1:145:A:ILE:HD13	1:140:A:ALA:HB3	7	0.31
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	7	0.31
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	7	0.31
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	7	0.31
(1,1524)	1:88:A:VAL:HG21	1:114:A:VAL:HB	9	0.31
(1,1524)	1:88:A:VAL:HG22	1:114:A:VAL:HB	9	0.31
(1,1524)	1:88:A:VAL:HG23	1:114:A:VAL:HB	9	0.31
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG21	9	0.31
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG22	9	0.31
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG23	9	0.31
(1,1489)	1:112:A:VAL:HG11	1:99:A:LEU:HB3	8	0.31
(1,1489)	1:112:A:VAL:HG12	1:99:A:LEU:HB3	8	0.31
(1,1489)	1:112:A:VAL:HG13	1:99:A:LEU:HB3	8	0.31
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG11	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG12	8	0.31
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG13	8	0.31
(1,1266)	1:93:A:ALA:HA	1:100:A:GLY:H	3	0.31
(1,1223)	1:98:A:ASN:HB2	1:98:A:ASN:H	3	0.31
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	7	0.31
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	7	0.31
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	7	0.31
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	7	0.31
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	7	0.31
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	7	0.31
(1,654)	1:64:A:ARG:HB2	1:68:A:GLU:HB3	5	0.31
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	1	0.31
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	1	0.31
(1,575)	1:62:A:ASN:HB2	1:64:A:ARG:H	10	0.31
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	10	0.31
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	10	0.31
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	10	0.31
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	7	0.31
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	7	0.31
(1,5213)	1:246:A:ARG:HG2	1:244:A:SER:HB2	4	0.3
(1,5212)	1:244:A:SER:HB2	1:246:A:ARG:HG2	4	0.3
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	4	0.3
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	4	0.3
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	4	0.3
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	8	0.3
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	8	0.3
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	8	0.3
(1,5050)	1:214:A:ILE:HD11	1:242:A:TRP:HE1	9	0.3
(1,5050)	1:214:A:ILE:HD12	1:242:A:TRP:HE1	9	0.3
(1,5050)	1:214:A:ILE:HD13	1:242:A:TRP:HE1	9	0.3
(1,5009)	1:229:A:GLU:HG2	1:241:A:ALA:HB1	9	0.3
(1,5009)	1:229:A:GLU:HG2	1:241:A:ALA:HB2	9	0.3
(1,5009)	1:229:A:GLU:HG2	1:241:A:ALA:HB3	9	0.3
(1,5008)	1:241:A:ALA:HB1	1:229:A:GLU:HG2	9	0.3
(1,5008)	1:241:A:ALA:HB2	1:229:A:GLU:HG2	9	0.3
(1,5008)	1:241:A:ALA:HB3	1:229:A:GLU:HG2	9	0.3
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	10	0.3
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	10	0.3
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	10	0.3
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	10	0.3
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	10	0.3
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	10	0.3
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	10	0.3
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	10	0.3
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	8	0.3
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	8	0.3
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	8	0.3
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	8	0.3
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	8	0.3
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	8	0.3
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	8	0.3
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	8	0.3
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	8	0.3
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	1	0.3
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	1	0.3
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	1	0.3
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	1	0.3
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	1	0.3
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	1	0.3
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	4	0.3
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	4	0.3
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	4	0.3
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	4	0.3
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	4	0.3
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	4	0.3
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	6	0.3
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	6	0.3
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	6	0.3
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG21	10	0.3
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG22	10	0.3
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG23	10	0.3
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG21	10	0.3
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG22	10	0.3
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG23	10	0.3
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG21	10	0.3
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG22	10	0.3
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG23	10	0.3
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD11	10	0.3
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD12	10	0.3
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD13	10	0.3
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD11	10	0.3
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD12	10	0.3
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD13	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD11	10	0.3
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD12	10	0.3
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD13	10	0.3
(1,3539)	1:176:A:ALA:HA	1:194:A:MET:H	4	0.3
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	4	0.3
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	1	0.3
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	1	0.3
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	1	0.3
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	1	0.3
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	1	0.3
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	1	0.3
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	1	0.3
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	1	0.3
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	1	0.3
(1,3139)	1:179:A:PRO:HA	1:77:A:TRP:H	9	0.3
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG11	9	0.3
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG12	9	0.3
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG13	9	0.3
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG11	9	0.3
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG12	9	0.3
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG13	9	0.3
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG11	9	0.3
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG12	9	0.3
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG13	9	0.3
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD11	9	0.3
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD12	9	0.3
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD13	9	0.3
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD11	9	0.3
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD12	9	0.3
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD13	9	0.3
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD11	9	0.3
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD12	9	0.3
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD13	9	0.3
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	4	0.3
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	4	0.3
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	9	0.3
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	9	0.3
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE1	7	0.3
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE2	7	0.3
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE1	7	0.3
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE2	7	0.3
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE1	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE2	7	0.3
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD21	7	0.3
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD22	7	0.3
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD23	7	0.3
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD21	7	0.3
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD22	7	0.3
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD23	7	0.3
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD11	5	0.3
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD12	5	0.3
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD13	5	0.3
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	10	0.3
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	10	0.3
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	10	0.3
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	7	0.3
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	7	0.3
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	7	0.3
(1,2301)	1:144:A:ASP:HA	1:147:A:ARG:H	8	0.3
(1,1832)	1:104:A:TYR:HD1	1:127:A:GLY:H	8	0.3
(1,1832)	1:104:A:TYR:HD2	1:127:A:GLY:H	8	0.3
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	10	0.3
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE1	8	0.3
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE2	8	0.3
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE1	8	0.3
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE2	8	0.3
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE1	8	0.3
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE2	8	0.3
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	10	0.3
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD1	5	0.3
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD2	5	0.3
(1,796)	1:74:A:TYR:HD1	1:71:A:SER:HA	5	0.3
(1,796)	1:74:A:TYR:HD2	1:71:A:SER:HA	5	0.3
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE1	3	0.3
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE2	3	0.3
(1,706)	1:69:A:GLN:HE21	1:69:A:GLN:H	5	0.3
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	1	0.3
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	7	0.3
(1,619)	1:66:A:ASN:HB2	1:63:A:ARG:HA	10	0.3
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	1	0.3
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	1	0.3
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	3	0.3
(1,384)	1:58:A:LYS:HD2	1:55:A:TYR:HA	9	0.3
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4894)	1:239:A:ARG:HG3	1:233:A:LEU:H	9	0.29
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	5	0.29
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	5	0.29
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	5	0.29
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	5	0.29
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	5	0.29
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	5	0.29
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	5	0.29
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	5	0.29
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	5	0.29
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	5	0.29
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	5	0.29
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	5	0.29
(1,4031)	1:207:A:LYS:HG3	1:204:A:LYS:HG2	3	0.29
(1,4031)	1:207:A:LYS:HG3	1:204:A:LYS:HG2	10	0.29
(1,4030)	1:204:A:LYS:HG2	1:207:A:LYS:HG3	3	0.29
(1,4030)	1:204:A:LYS:HG2	1:207:A:LYS:HG3	10	0.29
(1,3931)	1:200:A:LEU:HD21	1:204:A:LYS:H	4	0.29
(1,3931)	1:200:A:LEU:HD22	1:204:A:LYS:H	4	0.29
(1,3931)	1:200:A:LEU:HD23	1:204:A:LYS:H	4	0.29
(1,3785)	1:110:A:ASP:HA	1:199:A:ARG:H	1	0.29
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	2	0.29
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	2	0.29
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG11	6	0.29
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG12	6	0.29
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG13	6	0.29
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG11	6	0.29
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG12	6	0.29
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG13	6	0.29
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG11	6	0.29
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG12	6	0.29
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG13	6	0.29
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	6	0.29
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	6	0.29
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	6	0.29
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE1	1	0.29
(1,3173)	1:180:A:THR:HG21	1:81:A:TYR:HE2	1	0.29
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE1	1	0.29
(1,3173)	1:180:A:THR:HG22	1:81:A:TYR:HE2	1	0.29
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE1	1	0.29
(1,3173)	1:180:A:THR:HG23	1:81:A:TYR:HE2	1	0.29
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG21	1	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG22	1	0.29
(1,3172)	1:81:A:TYR:HE1	1:180:A:THR:HG23	1	0.29
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG21	1	0.29
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG22	1	0.29
(1,3172)	1:81:A:TYR:HE2	1:180:A:THR:HG23	1	0.29
(1,2879)	1:163:A:VAL:HG11	1:171:A:ILE:H	6	0.29
(1,2879)	1:163:A:VAL:HG12	1:171:A:ILE:H	6	0.29
(1,2879)	1:163:A:VAL:HG13	1:171:A:ILE:H	6	0.29
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE1	10	0.29
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE2	10	0.29
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE1	10	0.29
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE2	10	0.29
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE1	10	0.29
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE2	10	0.29
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD21	10	0.29
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD22	10	0.29
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD23	10	0.29
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD21	10	0.29
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD22	10	0.29
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD23	10	0.29
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	1	0.29
(1,2209)	1:145:A:ILE:HD11	1:142:A:THR:HB	4	0.29
(1,2209)	1:145:A:ILE:HD12	1:142:A:THR:HB	4	0.29
(1,2209)	1:145:A:ILE:HD13	1:142:A:THR:HB	4	0.29
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD11	4	0.29
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD12	4	0.29
(1,2208)	1:142:A:THR:HB	1:145:A:ILE:HD13	4	0.29
(1,2173)	1:144:A:ASP:HB2	1:141:A:ASP:HB3	5	0.29
(1,2172)	1:141:A:ASP:HB3	1:144:A:ASP:HB2	5	0.29
(1,2106)	1:140:A:ALA:HB1	1:134:A:LEU:HD21	10	0.29
(1,2106)	1:140:A:ALA:HB1	1:134:A:LEU:HD22	10	0.29
(1,2106)	1:140:A:ALA:HB1	1:134:A:LEU:HD23	10	0.29
(1,2106)	1:140:A:ALA:HB2	1:134:A:LEU:HD21	10	0.29
(1,2106)	1:140:A:ALA:HB2	1:134:A:LEU:HD22	10	0.29
(1,2106)	1:140:A:ALA:HB2	1:134:A:LEU:HD23	10	0.29
(1,2106)	1:140:A:ALA:HB3	1:134:A:LEU:HD21	10	0.29
(1,2106)	1:140:A:ALA:HB3	1:134:A:LEU:HD22	10	0.29
(1,2106)	1:140:A:ALA:HB3	1:134:A:LEU:HD23	10	0.29
(1,2105)	1:134:A:LEU:HD21	1:140:A:ALA:HB1	10	0.29
(1,2105)	1:134:A:LEU:HD21	1:140:A:ALA:HB2	10	0.29
(1,2105)	1:134:A:LEU:HD21	1:140:A:ALA:HB3	10	0.29
(1,2105)	1:134:A:LEU:HD22	1:140:A:ALA:HB1	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2105)	1:134:A:LEU:HD22	1:140:A:ALA:HB2	10	0.29
(1,2105)	1:134:A:LEU:HD22	1:140:A:ALA:HB3	10	0.29
(1,2105)	1:134:A:LEU:HD23	1:140:A:ALA:HB1	10	0.29
(1,2105)	1:134:A:LEU:HD23	1:140:A:ALA:HB2	10	0.29
(1,2105)	1:134:A:LEU:HD23	1:140:A:ALA:HB3	10	0.29
(1,1981)	1:113:A:PHE:HE1	1:134:A:LEU:HA	9	0.29
(1,1981)	1:113:A:PHE:HE2	1:134:A:LEU:HA	9	0.29
(1,1972)	1:132:A:ARG:HD2	1:133:A:SER:H	5	0.29
(1,1967)	1:133:A:SER:HB2	1:120:A:THR:H	2	0.29
(1,1801)	1:124:A:MET:HE1	1:125:A:LEU:H	10	0.29
(1,1801)	1:124:A:MET:HE2	1:125:A:LEU:H	10	0.29
(1,1801)	1:124:A:MET:HE3	1:125:A:LEU:H	10	0.29
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD1	10	0.29
(1,1730)	1:124:A:MET:HE1	1:74:A:TYR:HD2	10	0.29
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD1	10	0.29
(1,1730)	1:124:A:MET:HE2	1:74:A:TYR:HD2	10	0.29
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD1	10	0.29
(1,1730)	1:124:A:MET:HE3	1:74:A:TYR:HD2	10	0.29
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE1	10	0.29
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE2	10	0.29
(1,1729)	1:74:A:TYR:HD1	1:124:A:MET:HE3	10	0.29
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE1	10	0.29
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE2	10	0.29
(1,1729)	1:74:A:TYR:HD2	1:124:A:MET:HE3	10	0.29
(1,1703)	1:88:A:VAL:HG11	1:123:A:ALA:H	5	0.29
(1,1703)	1:88:A:VAL:HG12	1:123:A:ALA:H	5	0.29
(1,1703)	1:88:A:VAL:HG13	1:123:A:ALA:H	5	0.29
(1,1685)	1:114:A:VAL:HA	1:122:A:TYR:H	1	0.29
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	3	0.29
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	3	0.29
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	3	0.29
(1,1233)	1:99:A:LEU:HD21	1:80:A:ALA:HA	6	0.29
(1,1233)	1:99:A:LEU:HD22	1:80:A:ALA:HA	6	0.29
(1,1233)	1:99:A:LEU:HD23	1:80:A:ALA:HA	6	0.29
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD21	6	0.29
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD22	6	0.29
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD23	6	0.29
(1,1063)	1:87:A:ARG:HA	1:89:A:ASP:H	3	0.29
(1,656)	1:64:A:ARG:HB2	1:68:A:GLU:HG2	8	0.29
(1,655)	1:68:A:GLU:HG2	1:64:A:ARG:HB2	8	0.29
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	3	0.29
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	3	0.29
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD1	7	0.29
(1,242)	1:50:A:GLU:HB2	1:54:A:PHE:HD2	7	0.29
(1,241)	1:54:A:PHE:HD1	1:50:A:GLU:HB2	7	0.29
(1,241)	1:54:A:PHE:HD2	1:50:A:GLU:HB2	7	0.29
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	6	0.29
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	6	0.29
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	6	0.29
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	6	0.29
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	6	0.29
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	6	0.29
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG21	6	0.29
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG22	6	0.29
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG23	6	0.29
(1,109)	1:49:A:ILE:HG21	1:46:A:ASP:HB3	6	0.29
(1,109)	1:49:A:ILE:HG22	1:46:A:ASP:HB3	6	0.29
(1,109)	1:49:A:ILE:HG23	1:46:A:ASP:HB3	6	0.29
(1,93)	1:45:A:ASP:HA	1:49:A:ILE:H	2	0.29
(1,5222)	1:246:A:ARG:HB3	1:246:A:ARG:H	7	0.28
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	1	0.28
(1,5071)	1:228:A:LYS:HB3	1:242:A:TRP:H	7	0.28
(1,5000)	1:241:A:ALA:HB1	1:228:A:LYS:HB3	2	0.28
(1,5000)	1:241:A:ALA:HB2	1:228:A:LYS:HB3	2	0.28
(1,5000)	1:241:A:ALA:HB3	1:228:A:LYS:HB3	2	0.28
(1,4982)	1:241:A:ALA:HB1	1:218:A:HIS:HD2	8	0.28
(1,4982)	1:241:A:ALA:HB2	1:218:A:HIS:HD2	8	0.28
(1,4982)	1:241:A:ALA:HB3	1:218:A:HIS:HD2	8	0.28
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB1	8	0.28
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB2	8	0.28
(1,4981)	1:218:A:HIS:HD2	1:241:A:ALA:HB3	8	0.28
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	6	0.28
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	6	0.28
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	6	0.28
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	6	0.28
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	6	0.28
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	6	0.28
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	3	0.28
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	3	0.28
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	3	0.28
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	3	0.28
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	3	0.28
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	1	0.28
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	1	0.28
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	1	0.28
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	4	0.28
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	4	0.28
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	4	0.28
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	7	0.28
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	7	0.28
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	7	0.28
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	7	0.28
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	7	0.28
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	7	0.28
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	8	0.28
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	8	0.28
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	8	0.28
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	8	0.28
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	8	0.28
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	8	0.28
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	7	0.28
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	7	0.28
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	7	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	7	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	7	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	7	0.28
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	8	0.28
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	8	0.28
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	8	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	8	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	8	0.28
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	8	0.28
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	9	0.28
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	9	0.28
(1,4084)	1:208:A:LEU:HD11	1:63:A:ARG:H	2	0.28
(1,4084)	1:208:A:LEU:HD12	1:63:A:ARG:H	2	0.28
(1,4084)	1:208:A:LEU:HD13	1:63:A:ARG:H	2	0.28
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	7	0.28
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG21	1	0.28
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG22	1	0.28
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG23	1	0.28
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG21	1	0.28
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG22	1	0.28
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG23	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG21	1	0.28
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG22	1	0.28
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG23	1	0.28
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD11	1	0.28
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD12	1	0.28
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD13	1	0.28
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD11	1	0.28
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD12	1	0.28
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD13	1	0.28
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD11	1	0.28
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD12	1	0.28
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD13	1	0.28
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	2	0.28
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	2	0.28
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	10	0.28
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	10	0.28
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	10	0.28
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	10	0.28
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	10	0.28
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	10	0.28
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	10	0.28
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	10	0.28
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	10	0.28
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	5	0.28
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	5	0.28
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	5	0.28
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	10	0.28
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	10	0.28
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	10	0.28
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	6	0.28
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	6	0.28
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	6	0.28
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	6	0.28
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	6	0.28
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	6	0.28
(1,3068)	1:177:A:ILE:HD11	1:75:A:SER:HB2	2	0.28
(1,3068)	1:177:A:ILE:HD12	1:75:A:SER:HB2	2	0.28
(1,3068)	1:177:A:ILE:HD13	1:75:A:SER:HB2	2	0.28
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	7	0.28
(1,2834)	1:171:A:ILE:HD11	1:63:A:ARG:HE	10	0.28
(1,2834)	1:171:A:ILE:HD12	1:63:A:ARG:HE	10	0.28
(1,2834)	1:171:A:ILE:HD13	1:63:A:ARG:HE	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2764)	1:165:A:PHE:H	1:167:A:GLY:H	1	0.28
(1,2763)	1:167:A:GLY:H	1:165:A:PHE:H	1	0.28
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG21	1	0.28
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG22	1	0.28
(1,2685)	1:145:A:ILE:HD11	1:163:A:VAL:HG23	1	0.28
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG21	1	0.28
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG22	1	0.28
(1,2685)	1:145:A:ILE:HD12	1:163:A:VAL:HG23	1	0.28
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG21	1	0.28
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG22	1	0.28
(1,2685)	1:145:A:ILE:HD13	1:163:A:VAL:HG23	1	0.28
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD11	1	0.28
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD12	1	0.28
(1,2684)	1:163:A:VAL:HG21	1:145:A:ILE:HD13	1	0.28
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD11	1	0.28
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD12	1	0.28
(1,2684)	1:163:A:VAL:HG22	1:145:A:ILE:HD13	1	0.28
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD11	1	0.28
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD12	1	0.28
(1,2684)	1:163:A:VAL:HG23	1:145:A:ILE:HD13	1	0.28
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	3	0.28
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	3	0.28
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	3	0.28
(1,2369)	1:147:A:ARG:HA	1:150:A:ARG:H	6	0.28
(1,1908)	1:130:A:SER:HB2	1:125:A:LEU:H	2	0.28
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	3	0.28
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	3	0.28
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	3	0.28
(1,1781)	1:111:A:GLY:HA3	1:125:A:LEU:HA	4	0.28
(1,1780)	1:125:A:LEU:HA	1:111:A:GLY:HA3	4	0.28
(1,1435)	1:106:A:THR:H	1:107:A:ASN:H	8	0.28
(1,1434)	1:107:A:ASN:H	1:106:A:THR:H	8	0.28
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	3	0.28
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	3	0.28
(1,1292)	1:102:A:VAL:HG11	1:98:A:ASN:HA	2	0.28
(1,1292)	1:102:A:VAL:HG12	1:98:A:ASN:HA	2	0.28
(1,1292)	1:102:A:VAL:HG13	1:98:A:ASN:HA	2	0.28
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG11	2	0.28
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG12	2	0.28
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG13	2	0.28
(1,1216)	1:97:A:ASN:H	1:98:A:ASN:H	2	0.28
(1,1215)	1:98:A:ASN:H	1:97:A:ASN:H	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG11	9	0.28
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG12	9	0.28
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG13	9	0.28
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG11	9	0.28
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG12	9	0.28
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG13	9	0.28
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG11	9	0.28
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG12	9	0.28
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG13	9	0.28
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG21	9	0.28
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG22	9	0.28
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG23	9	0.28
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG21	9	0.28
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG22	9	0.28
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG23	9	0.28
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG21	9	0.28
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG22	9	0.28
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG23	9	0.28
(1,867)	1:77:A:TRP:H	1:76:A:PHE:H	6	0.28
(1,866)	1:76:A:PHE:H	1:77:A:TRP:H	6	0.28
(1,827)	1:72:A:THR:HA	1:75:A:SER:H	7	0.28
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	10	0.28
(1,575)	1:62:A:ASN:HB2	1:64:A:ARG:H	9	0.28
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG21	5	0.28
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG22	5	0.28
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG23	5	0.28
(1,109)	1:49:A:ILE:HG21	1:46:A:ASP:HB3	5	0.28
(1,109)	1:49:A:ILE:HG22	1:46:A:ASP:HB3	5	0.28
(1,109)	1:49:A:ILE:HG23	1:46:A:ASP:HB3	5	0.28
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	4	0.27
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	8	0.27
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	4	0.27
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	8	0.27
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD11	7	0.27
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD12	7	0.27
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD13	7	0.27
(1,4571)	1:220:A:LEU:HD11	1:228:A:LYS:HE3	7	0.27
(1,4571)	1:220:A:LEU:HD12	1:228:A:LYS:HE3	7	0.27
(1,4571)	1:220:A:LEU:HD13	1:228:A:LYS:HE3	7	0.27
(1,4568)	1:228:A:LYS:HE3	1:218:A:HIS:HD2	4	0.27
(1,4567)	1:218:A:HIS:HD2	1:228:A:LYS:HE3	4	0.27
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB1	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB2	5	0.27
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB3	5	0.27
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB1	5	0.27
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB2	5	0.27
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB3	5	0.27
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB1	5	0.27
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB2	5	0.27
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB3	5	0.27
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB1	8	0.27
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB2	8	0.27
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB3	8	0.27
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB1	8	0.27
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB2	8	0.27
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB3	8	0.27
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB1	8	0.27
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB2	8	0.27
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB3	8	0.27
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB1	5	0.27
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB2	5	0.27
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB3	5	0.27
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB1	5	0.27
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB2	5	0.27
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB3	5	0.27
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB1	5	0.27
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB2	5	0.27
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB3	5	0.27
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB1	8	0.27
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB2	8	0.27
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB3	8	0.27
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB1	8	0.27
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB2	8	0.27
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB3	8	0.27
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB1	8	0.27
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB2	8	0.27
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB3	8	0.27
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	10	0.27
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	10	0.27
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	10	0.27
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	10	0.27
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	10	0.27
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	10	0.27
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	10	0.27
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	10	0.27
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	10	0.27
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	10	0.27
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	10	0.27
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	7	0.27
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	7	0.27
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	10	0.27
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	10	0.27
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	8	0.27
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	8	0.27
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	8	0.27
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	8	0.27
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	8	0.27
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	8	0.27
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	7	0.27
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	10	0.27
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	7	0.27
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	10	0.27
(1,3974)	1:205:A:LEU:HD21	1:202:A:PRO:HD3	2	0.27
(1,3974)	1:205:A:LEU:HD22	1:202:A:PRO:HD3	2	0.27
(1,3974)	1:205:A:LEU:HD23	1:202:A:PRO:HD3	2	0.27
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD21	2	0.27
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD22	2	0.27
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD23	2	0.27
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	9	0.27
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	9	0.27
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	9	0.27
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	9	0.27
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	1	0.27
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	3	0.27
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	4	0.27
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	4	0.27
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	4	0.27
(1,3377)	1:190:A:LYS:HB3	1:189:A:ALA:H	5	0.27
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	2	0.27
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	2	0.27
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	9	0.27
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	5	0.27
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	5	0.27
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	5	0.27
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	7	0.27
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	7	0.27
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	10	0.27
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	10	0.27
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	10	0.27
(1,3139)	1:179:A:PRO:HA	1:77:A:TRP:H	3	0.27
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	6	0.27
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	5	0.27
(1,2776)	1:166:A:ASP:HB2	1:168:A:ALA:H	10	0.27
(1,2726)	1:165:A:PHE:HE1	1:137:A:SER:H	9	0.27
(1,2726)	1:165:A:PHE:HE2	1:137:A:SER:H	9	0.27
(1,2687)	1:163:A:VAL:HG21	1:161:A:ARG:HB2	4	0.27
(1,2687)	1:163:A:VAL:HG22	1:161:A:ARG:HB2	4	0.27
(1,2687)	1:163:A:VAL:HG23	1:161:A:ARG:HB2	4	0.27
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG21	4	0.27
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG22	4	0.27
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG23	4	0.27
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	7	0.27
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	7	0.27
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	7	0.27
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG21	6	0.27
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG22	6	0.27
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG23	6	0.27
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG21	6	0.27
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG22	6	0.27
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG23	6	0.27
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG21	6	0.27
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG22	6	0.27
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG23	6	0.27
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG21	9	0.27
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG22	9	0.27
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG23	9	0.27
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG21	9	0.27
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG22	9	0.27
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG23	9	0.27
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG21	9	0.27
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG22	9	0.27
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG23	9	0.27
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD11	6	0.27
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD12	6	0.27
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD13	6	0.27
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD11	6	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD12	6	0.27
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD13	6	0.27
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD11	6	0.27
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD12	6	0.27
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD13	6	0.27
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD11	9	0.27
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD12	9	0.27
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD13	9	0.27
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD11	9	0.27
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD12	9	0.27
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD13	9	0.27
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD11	9	0.27
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD12	9	0.27
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD13	9	0.27
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG21	10	0.27
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG22	10	0.27
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG23	10	0.27
(1,1981)	1:113:A:PHE:HE1	1:134:A:LEU:HA	3	0.27
(1,1981)	1:113:A:PHE:HE2	1:134:A:LEU:HA	3	0.27
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	6	0.27
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD11	9	0.27
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD12	9	0.27
(1,1733)	1:124:A:MET:HE1	1:99:A:LEU:HD13	9	0.27
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD11	9	0.27
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD12	9	0.27
(1,1733)	1:124:A:MET:HE2	1:99:A:LEU:HD13	9	0.27
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD11	9	0.27
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD12	9	0.27
(1,1733)	1:124:A:MET:HE3	1:99:A:LEU:HD13	9	0.27
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE1	9	0.27
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE2	9	0.27
(1,1732)	1:99:A:LEU:HD11	1:124:A:MET:HE3	9	0.27
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE1	9	0.27
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE2	9	0.27
(1,1732)	1:99:A:LEU:HD12	1:124:A:MET:HE3	9	0.27
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE1	9	0.27
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE2	9	0.27
(1,1732)	1:99:A:LEU:HD13	1:124:A:MET:HE3	9	0.27
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE1	2	0.27
(1,1731)	1:124:A:MET:HE1	1:74:A:TYR:HE2	2	0.27
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE1	2	0.27
(1,1731)	1:124:A:MET:HE2	1:74:A:TYR:HE2	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE1	2	0.27
(1,1731)	1:124:A:MET:HE3	1:74:A:TYR:HE2	2	0.27
(1,1718)	1:120:A:THR:HG21	1:123:A:ALA:H	2	0.27
(1,1718)	1:120:A:THR:HG22	1:123:A:ALA:H	2	0.27
(1,1718)	1:120:A:THR:HG23	1:123:A:ALA:H	2	0.27
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	6	0.27
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	6	0.27
(1,1103)	1:83:A:TYR:HE1	1:92:A:TRP:HE1	2	0.27
(1,1103)	1:83:A:TYR:HE2	1:92:A:TRP:HE1	2	0.27
(1,1100)	1:92:A:TRP:HZ2	1:79:A:ASP:H	7	0.27
(1,1075)	1:88:A:VAL:HG11	1:90:A:ALA:HA	1	0.27
(1,1075)	1:88:A:VAL:HG12	1:90:A:ALA:HA	1	0.27
(1,1075)	1:88:A:VAL:HG13	1:90:A:ALA:HA	1	0.27
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG11	1	0.27
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG12	1	0.27
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG13	1	0.27
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	8	0.27
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	8	0.27
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	8	0.27
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	8	0.27
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	8	0.27
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	8	0.27
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	8	0.27
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	8	0.27
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	8	0.27
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	8	0.27
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	8	0.27
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	8	0.27
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD1	2	0.27
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD2	2	0.27
(1,796)	1:74:A:TYR:HD1	1:71:A:SER:HA	2	0.27
(1,796)	1:74:A:TYR:HD2	1:71:A:SER:HA	2	0.27
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	6	0.27
(1,755)	1:71:A:SER:HA	1:72:A:THR:H	4	0.27
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	6	0.27
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	6	0.27
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	9	0.27
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	9	0.27
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	7	0.27
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	4	0.27
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	5	0.27
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	6	0.27
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	4	0.27
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	6	0.27
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	8	0.27
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	8	0.27
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	8	0.27
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	8	0.27
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	6	0.27
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	1	0.27
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	1	0.27
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	1	0.27
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	10	0.27
(2,7)	1:116:A:ASP:H	1:119:A:GLY:O	9	0.26
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	2	0.26
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	2	0.26
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	2	0.26
(1,5148)	1:243:A:VAL:HG21	1:229:A:GLU:H	6	0.26
(1,5148)	1:243:A:VAL:HG22	1:229:A:GLU:H	6	0.26
(1,5148)	1:243:A:VAL:HG23	1:229:A:GLU:H	6	0.26
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	8	0.26
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	5	0.26
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	5	0.26
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	5	0.26
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	5	0.26
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	5	0.26
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	5	0.26
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	3	0.26
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	5	0.26
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	4	0.26
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	4	0.26
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	4	0.26
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	4	0.26
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	4	0.26
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	4	0.26
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	4	0.26
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	4	0.26
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	4	0.26
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	4	0.26
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	4	0.26
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	4	0.26
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	5	0.26
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	5	0.26
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	6	0.26
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	6	0.26
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	6	0.26
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	4	0.26
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	4	0.26
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	4	0.26
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	4	0.26
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	4	0.26
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	4	0.26
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	9	0.26
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	9	0.26
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	9	0.26
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	9	0.26
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	9	0.26
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	9	0.26
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	4	0.26
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	4	0.26
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	4	0.26
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	4	0.26
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	4	0.26
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	4	0.26
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	9	0.26
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	9	0.26
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	9	0.26
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	9	0.26
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	9	0.26
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	9	0.26
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	1	0.26
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	1	0.26
(1,4074)	1:208:A:LEU:HD21	1:60:A:LEU:H	6	0.26
(1,4074)	1:208:A:LEU:HD22	1:60:A:LEU:H	6	0.26
(1,4074)	1:208:A:LEU:HD23	1:60:A:LEU:H	6	0.26
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD11	7	0.26
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD12	7	0.26
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD13	7	0.26
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	3	0.26
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	3	0.26
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	3	0.26
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	3	0.26
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	3	0.26
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	10	0.26
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	5	0.26
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	5	0.26
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	5	0.26
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	5	0.26
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	5	0.26
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	5	0.26
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	7	0.26
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	7	0.26
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	7	0.26
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	7	0.26
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	7	0.26
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	7	0.26
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	1	0.26
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	1	0.26
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	1	0.26
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	5	0.26
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	5	0.26
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	5	0.26
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	5	0.26
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	5	0.26
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	5	0.26
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG21	8	0.26
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG22	8	0.26
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG23	8	0.26
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG21	8	0.26
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG22	8	0.26
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG23	8	0.26
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG21	8	0.26
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG22	8	0.26
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG23	8	0.26
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD11	8	0.26
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD12	8	0.26
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD13	8	0.26
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD11	8	0.26
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD12	8	0.26
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD13	8	0.26
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD11	8	0.26
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD12	8	0.26
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD13	8	0.26
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD21	1	0.26
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD22	1	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD23	1	0.26
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD21	1	0.26
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD22	1	0.26
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD23	1	0.26
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD21	1	0.26
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD22	1	0.26
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD23	1	0.26
(1,3377)	1:190:A:LYS:HB3	1:189:A:ALA:H	4	0.26
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	4	0.26
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	4	0.26
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	4	0.26
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	4	0.26
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	4	0.26
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	4	0.26
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	4	0.26
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	4	0.26
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	4	0.26
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	3	0.26
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	3	0.26
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	3	0.26
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	7	0.26
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	7	0.26
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	7	0.26
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	7	0.26
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	7	0.26
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	7	0.26
(1,2647)	1:161:A:ARG:HA	1:161:A:ARG:HB3	2	0.26
(1,2646)	1:161:A:ARG:HB3	1:161:A:ARG:HA	2	0.26
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	10	0.26
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	10	0.26
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	10	0.26
(1,2434)	1:153:A:ALA:HB1	1:150:A:ARG:HA	6	0.26
(1,2434)	1:153:A:ALA:HB2	1:150:A:ARG:HA	6	0.26
(1,2434)	1:153:A:ALA:HB3	1:150:A:ARG:HA	6	0.26
(1,2433)	1:150:A:ARG:HA	1:153:A:ALA:HB1	6	0.26
(1,2433)	1:150:A:ARG:HA	1:153:A:ALA:HB2	6	0.26
(1,2433)	1:150:A:ARG:HA	1:153:A:ALA:HB3	6	0.26
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	6	0.26
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	7	0.26
(1,1801)	1:124:A:MET:HE1	1:125:A:LEU:H	3	0.26
(1,1801)	1:124:A:MET:HE2	1:125:A:LEU:H	3	0.26
(1,1801)	1:124:A:MET:HE3	1:125:A:LEU:H	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1765)	1:112:A:VAL:H	1:124:A:MET:H	8	0.26
(1,1764)	1:124:A:MET:H	1:112:A:VAL:H	8	0.26
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	10	0.26
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	10	0.26
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	2	0.26
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	2	0.26
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	2	0.26
(1,1402)	1:102:A:VAL:HG11	1:106:A:THR:HB	2	0.26
(1,1402)	1:102:A:VAL:HG12	1:106:A:THR:HB	2	0.26
(1,1402)	1:102:A:VAL:HG13	1:106:A:THR:HB	2	0.26
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG11	2	0.26
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG12	2	0.26
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG13	2	0.26
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	5	0.26
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	7	0.26
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	8	0.26
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	9	0.26
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	10	0.26
(1,1301)	1:102:A:VAL:H	1:101:A:SER:H	5	0.26
(1,1300)	1:101:A:SER:H	1:102:A:VAL:H	5	0.26
(1,907)	1:79:A:ASP:H	1:80:A:ALA:H	2	0.26
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	2	0.26
(1,867)	1:77:A:TRP:H	1:76:A:PHE:H	4	0.26
(1,866)	1:76:A:PHE:H	1:77:A:TRP:H	4	0.26
(1,592)	1:61:A:GLN:HG2	1:65:A:GLU:HB3	7	0.26
(1,591)	1:65:A:GLU:HB3	1:61:A:GLN:HG2	7	0.26
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	6	0.26
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	5	0.26
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	1	0.26
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	6	0.26
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	7	0.26
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	8	0.26
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	10	0.26
(1,330)	1:57:A:GLU:HB3	1:53:A:HIS:HD2	2	0.26
(1,329)	1:53:A:HIS:HD2	1:57:A:GLU:HB3	2	0.26
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	4	0.26
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	4	0.26
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	4	0.26
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	4	0.26
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	4	0.26
(1,240)	1:54:A:PHE:HB2	1:50:A:GLU:HB2	4	0.26
(1,239)	1:50:A:GLU:HB2	1:54:A:PHE:HB2	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	6	0.26
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	6	0.26
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	6	0.26
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	10	0.26
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	10	0.26
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	10	0.26
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	10	0.26
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	10	0.26
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	10	0.26
(1,22)	1:46:A:ASP:HB2	1:43:A:HIS:HB2	3	0.26
(1,21)	1:43:A:HIS:HB2	1:46:A:ASP:HB2	3	0.26
(2,7)	1:116:A:ASP:H	1:119:A:GLY:O	5	0.25
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	7	0.25
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	9	0.25
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	3	0.25
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	3	0.25
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	2	0.25
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	4	0.25
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	6	0.25
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	7	0.25
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	9	0.25
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	10	0.25
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	3	0.25
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	6	0.25
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	9	0.25
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	3	0.25
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	6	0.25
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	9	0.25
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	1	0.25
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	9	0.25
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	10	0.25
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	10	0.25
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	10	0.25
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD21	6	0.25
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD22	6	0.25
(1,4211)	1:212:A:TYR:HE1	1:208:A:LEU:HD23	6	0.25
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD21	6	0.25
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD22	6	0.25
(1,4211)	1:212:A:TYR:HE2	1:208:A:LEU:HD23	6	0.25
(1,4190)	1:58:A:LYS:HB2	1:212:A:TYR:HE1	9	0.25
(1,4190)	1:58:A:LYS:HB2	1:212:A:TYR:HE2	9	0.25
(1,4189)	1:212:A:TYR:HE1	1:58:A:LYS:HB2	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4189)	1:212:A:TYR:HE2	1:58:A:LYS:HB2	9	0.25
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	1	0.25
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	4	0.25
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	1	0.25
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	4	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	1	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	2	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	3	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	4	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	5	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	7	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	8	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	9	0.25
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	10	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	1	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	2	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	3	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	4	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	5	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	7	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	8	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	9	0.25
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	10	0.25
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	5	0.25
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	5	0.25
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	5	0.25
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	5	0.25
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	5	0.25
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	5	0.25
(1,3785)	1:110:A:ASP:HA	1:199:A:ARG:H	5	0.25
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	1	0.25
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	5	0.25
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	6	0.25
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	10	0.25
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG11	3	0.25
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG12	3	0.25
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG13	3	0.25
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	4	0.25
(1,3535)	1:114:A:VAL:HG21	1:194:A:MET:HE1	8	0.25
(1,3535)	1:114:A:VAL:HG21	1:194:A:MET:HE2	8	0.25
(1,3535)	1:114:A:VAL:HG21	1:194:A:MET:HE3	8	0.25
(1,3535)	1:114:A:VAL:HG22	1:194:A:MET:HE1	8	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3535)	1:114:A:VAL:HG22	1:194:A:MET:HE2	8	0.25
(1,3535)	1:114:A:VAL:HG22	1:194:A:MET:HE3	8	0.25
(1,3535)	1:114:A:VAL:HG23	1:194:A:MET:HE1	8	0.25
(1,3535)	1:114:A:VAL:HG23	1:194:A:MET:HE2	8	0.25
(1,3535)	1:114:A:VAL:HG23	1:194:A:MET:HE3	8	0.25
(1,3534)	1:194:A:MET:HE1	1:114:A:VAL:HG21	8	0.25
(1,3534)	1:194:A:MET:HE1	1:114:A:VAL:HG22	8	0.25
(1,3534)	1:194:A:MET:HE1	1:114:A:VAL:HG23	8	0.25
(1,3534)	1:194:A:MET:HE2	1:114:A:VAL:HG21	8	0.25
(1,3534)	1:194:A:MET:HE2	1:114:A:VAL:HG22	8	0.25
(1,3534)	1:194:A:MET:HE2	1:114:A:VAL:HG23	8	0.25
(1,3534)	1:194:A:MET:HE3	1:114:A:VAL:HG21	8	0.25
(1,3534)	1:194:A:MET:HE3	1:114:A:VAL:HG22	8	0.25
(1,3534)	1:194:A:MET:HE3	1:114:A:VAL:HG23	8	0.25
(1,3525)	1:194:A:MET:HE1	1:99:A:LEU:HD11	2	0.25
(1,3525)	1:194:A:MET:HE1	1:99:A:LEU:HD12	2	0.25
(1,3525)	1:194:A:MET:HE1	1:99:A:LEU:HD13	2	0.25
(1,3525)	1:194:A:MET:HE2	1:99:A:LEU:HD11	2	0.25
(1,3525)	1:194:A:MET:HE2	1:99:A:LEU:HD12	2	0.25
(1,3525)	1:194:A:MET:HE2	1:99:A:LEU:HD13	2	0.25
(1,3525)	1:194:A:MET:HE3	1:99:A:LEU:HD11	2	0.25
(1,3525)	1:194:A:MET:HE3	1:99:A:LEU:HD12	2	0.25
(1,3525)	1:194:A:MET:HE3	1:99:A:LEU:HD13	2	0.25
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG11	8	0.25
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG12	8	0.25
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG13	8	0.25
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG11	8	0.25
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG12	8	0.25
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG13	8	0.25
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG11	8	0.25
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG12	8	0.25
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG13	8	0.25
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD11	8	0.25
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD12	8	0.25
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD13	8	0.25
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD11	8	0.25
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD12	8	0.25
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD13	8	0.25
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD11	8	0.25
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD12	8	0.25
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD13	8	0.25
(1,3435)	1:188:A:LEU:HD21	1:192:A:SER:H	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3435)	1:188:A:LEU:HD22	1:192:A:SER:H	6	0.25
(1,3435)	1:188:A:LEU:HD23	1:192:A:SER:H	6	0.25
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	10	0.25
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	10	0.25
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	1	0.25
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	2	0.25
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	10	0.25
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	1	0.25
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	2	0.25
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	10	0.25
(1,3254)	1:81:A:TYR:HE1	1:186:A:ILE:HD11	9	0.25
(1,3254)	1:81:A:TYR:HE1	1:186:A:ILE:HD12	9	0.25
(1,3254)	1:81:A:TYR:HE1	1:186:A:ILE:HD13	9	0.25
(1,3254)	1:81:A:TYR:HE2	1:186:A:ILE:HD11	9	0.25
(1,3254)	1:81:A:TYR:HE2	1:186:A:ILE:HD12	9	0.25
(1,3254)	1:81:A:TYR:HE2	1:186:A:ILE:HD13	9	0.25
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	1	0.25
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	1	0.25
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	1	0.25
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	3	0.25
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	5	0.25
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	5	0.25
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	5	0.25
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	5	0.25
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	5	0.25
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	5	0.25
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	5	0.25
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	5	0.25
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	5	0.25
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	5	0.25
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	5	0.25
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	5	0.25
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	9	0.25
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	1	0.25
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	2	0.25
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	2	0.25
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	2	0.25
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	3	0.25
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	3	0.25
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	3	0.25
(1,2757)	1:166:A:ASP:HB3	1:166:A:ASP:HA	9	0.25
(1,2756)	1:166:A:ASP:HA	1:166:A:ASP:HB3	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	8	0.25
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	8	0.25
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	8	0.25
(1,2572)	1:159:A:ILE:HD11	1:145:A:ILE:HB	4	0.25
(1,2572)	1:159:A:ILE:HD12	1:145:A:ILE:HB	4	0.25
(1,2572)	1:159:A:ILE:HD13	1:145:A:ILE:HB	4	0.25
(1,2571)	1:145:A:ILE:HB	1:159:A:ILE:HD11	4	0.25
(1,2571)	1:145:A:ILE:HB	1:159:A:ILE:HD12	4	0.25
(1,2571)	1:145:A:ILE:HB	1:159:A:ILE:HD13	4	0.25
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	6	0.25
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	8	0.25
(1,2314)	1:147:A:ARG:HB2	1:147:A:ARG:HA	2	0.25
(1,2314)	1:147:A:ARG:HB2	1:147:A:ARG:HA	3	0.25
(1,2314)	1:147:A:ARG:HB2	1:147:A:ARG:HA	5	0.25
(1,2313)	1:147:A:ARG:HA	1:147:A:ARG:HB2	2	0.25
(1,2313)	1:147:A:ARG:HA	1:147:A:ARG:HB2	3	0.25
(1,2313)	1:147:A:ARG:HA	1:147:A:ARG:HB2	5	0.25
(1,2312)	1:147:A:ARG:HB3	1:147:A:ARG:HA	7	0.25
(1,2312)	1:147:A:ARG:HB3	1:147:A:ARG:HA	8	0.25
(1,2311)	1:147:A:ARG:HA	1:147:A:ARG:HB3	7	0.25
(1,2311)	1:147:A:ARG:HA	1:147:A:ARG:HB3	8	0.25
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	4	0.25
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	8	0.25
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	10	0.25
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	4	0.25
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	8	0.25
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	10	0.25
(1,1946)	1:125:A:LEU:HD21	1:132:A:ARG:H	1	0.25
(1,1946)	1:125:A:LEU:HD22	1:132:A:ARG:H	1	0.25
(1,1946)	1:125:A:LEU:HD23	1:132:A:ARG:H	1	0.25
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	2	0.25
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	4	0.25
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG21	10	0.25
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG22	10	0.25
(1,1715)	1:123:A:ALA:HA	1:120:A:THR:HG23	10	0.25
(1,1694)	1:121:A:ARG:HG3	1:122:A:TYR:H	3	0.25
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	1	0.25
(1,1489)	1:112:A:VAL:HG11	1:99:A:LEU:HB3	10	0.25
(1,1489)	1:112:A:VAL:HG12	1:99:A:LEU:HB3	10	0.25
(1,1489)	1:112:A:VAL:HG13	1:99:A:LEU:HB3	10	0.25
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG11	10	0.25
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG12	10	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG13	10	0.25
(1,1458)	1:104:A:TYR:HA	1:109:A:TYR:H	9	0.25
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	1	0.25
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	1	0.25
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	10	0.25
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	10	0.25
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	4	0.25
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	4	0.25
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	4	0.25
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	4	0.25
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	4	0.25
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	4	0.25
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	4	0.25
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	4	0.25
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	4	0.25
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	4	0.25
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	4	0.25
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	4	0.25
(1,755)	1:71:A:SER:HA	1:72:A:THR:H	8	0.25
(1,700)	1:69:A:GLN:HA	1:69:A:GLN:HB3	4	0.25
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	2	0.25
(1,619)	1:66:A:ASN:HB2	1:63:A:ARG:HA	3	0.25
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	8	0.25
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	8	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	1	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	2	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	3	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	4	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	5	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	6	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	8	0.25
(1,586)	1:64:A:ARG:HA	1:64:A:ARG:HB2	9	0.25
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	1	0.25
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	2	0.25
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	3	0.25
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	4	0.25
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	5	0.25
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	6	0.25
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	8	0.25
(1,585)	1:64:A:ARG:HB2	1:64:A:ARG:HA	9	0.25
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	5	0.25
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	5	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	4	0.25
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	6	0.25
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	6	0.25
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	6	0.25
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	2	0.25
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	7	0.25
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	10	0.25
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	2	0.25
(1,412)	1:58:A:LYS:HB3	1:58:A:LYS:H	3	0.25
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	1	0.25
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	1	0.25
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	6	0.25
(1,5185)	1:244:A:SER:HB3	1:243:A:VAL:HA	6	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	1	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	2	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	3	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	4	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	6	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	8	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	10	0.24
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	5	0.24
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	5	0.24
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	5	0.24
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	6	0.24
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	6	0.24
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	3	0.24
(1,5068)	1:242:A:TRP:HB2	1:218:A:HIS:HD2	9	0.24
(1,5067)	1:218:A:HIS:HD2	1:242:A:TRP:HB2	9	0.24
(1,5047)	1:214:A:ILE:HD11	1:242:A:TRP:HD1	2	0.24
(1,5047)	1:214:A:ILE:HD12	1:242:A:TRP:HD1	2	0.24
(1,5047)	1:214:A:ILE:HD13	1:242:A:TRP:HD1	2	0.24
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD11	2	0.24
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD12	2	0.24
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD13	2	0.24
(1,5002)	1:241:A:ALA:HB1	1:228:A:LYS:HB2	3	0.24
(1,5002)	1:241:A:ALA:HB2	1:228:A:LYS:HB2	3	0.24
(1,5002)	1:241:A:ALA:HB3	1:228:A:LYS:HB2	3	0.24
(1,5000)	1:241:A:ALA:HB1	1:228:A:LYS:HB3	10	0.24
(1,5000)	1:241:A:ALA:HB2	1:228:A:LYS:HB3	10	0.24
(1,5000)	1:241:A:ALA:HB3	1:228:A:LYS:HB3	10	0.24
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	5	0.24
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	1	0.24
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	2	0.24
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	4	0.24
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	5	0.24
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	7	0.24
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	8	0.24
(1,4734)	1:233:A:LEU:HA	1:233:A:LEU:HB2	10	0.24
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	1	0.24
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	2	0.24
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	4	0.24
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	5	0.24
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	7	0.24
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	8	0.24
(1,4733)	1:233:A:LEU:HB2	1:233:A:LEU:HA	10	0.24
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB1	9	0.24
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB2	9	0.24
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB3	9	0.24
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB1	9	0.24
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB2	9	0.24
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB3	9	0.24
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB1	9	0.24
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB2	9	0.24
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB3	9	0.24
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB1	9	0.24
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB2	9	0.24
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB3	9	0.24
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB1	9	0.24
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB2	9	0.24
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB3	9	0.24
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB1	9	0.24
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB2	9	0.24
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB3	9	0.24
(1,4382)	1:205:A:LEU:HD11	1:217:A:LEU:HG	6	0.24
(1,4382)	1:205:A:LEU:HD12	1:217:A:LEU:HG	6	0.24
(1,4382)	1:205:A:LEU:HD13	1:217:A:LEU:HG	6	0.24
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD11	6	0.24
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD12	6	0.24
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD13	6	0.24
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	1	0.24
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	1	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	1	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	3	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	4	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	5	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	6	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	7	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	8	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	9	0.24
(1,4331)	1:214:A:ILE:HA	1:214:A:ILE:HB	10	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	1	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	2	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	3	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	4	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	5	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	6	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	7	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	8	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	9	0.24
(1,4330)	1:214:A:ILE:HB	1:214:A:ILE:HA	10	0.24
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	7	0.24
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	7	0.24
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	7	0.24
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE1	1	0.24
(1,4271)	1:214:A:ILE:HD11	1:55:A:TYR:HE2	1	0.24
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE1	1	0.24
(1,4271)	1:214:A:ILE:HD12	1:55:A:TYR:HE2	1	0.24
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE1	1	0.24
(1,4271)	1:214:A:ILE:HD13	1:55:A:TYR:HE2	1	0.24
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD11	1	0.24
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD12	1	0.24
(1,4270)	1:55:A:TYR:HE1	1:214:A:ILE:HD13	1	0.24
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD11	1	0.24
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD12	1	0.24
(1,4270)	1:55:A:TYR:HE2	1:214:A:ILE:HD13	1	0.24
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	2	0.24
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	6	0.24
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	2	0.24
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	6	0.24
(1,4206)	1:207:A:LYS:HE3	1:212:A:TYR:HD1	9	0.24
(1,4206)	1:207:A:LYS:HE3	1:212:A:TYR:HD2	9	0.24
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	4	0.24
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	5	0.24
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	9	0.24
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	4	0.24
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	5	0.24
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	8	0.24
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	9	0.24
(1,3953)	1:204:A:LYS:HB2	1:204:A:LYS:HA	1	0.24
(1,3953)	1:204:A:LYS:HB2	1:204:A:LYS:HA	4	0.24
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	2	0.24
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	3	0.24
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	7	0.24
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	2	0.24
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	3	0.24
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	7	0.24
(1,3824)	1:199:A:ARG:HA	1:199:A:ARG:HB3	6	0.24
(1,3823)	1:199:A:ARG:HB3	1:199:A:ARG:HA	6	0.24
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	2	0.24
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	3	0.24
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	4	0.24
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	7	0.24
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	8	0.24
(1,3763)	1:197:A:VAL:HA	1:197:A:VAL:HB	9	0.24
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	3	0.24
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	3	0.24
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	3	0.24
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	7	0.24
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	7	0.24
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	7	0.24
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	3	0.24
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	7	0.24
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	3	0.24
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	4	0.24
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	5	0.24
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	7	0.24
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	8	0.24
(1,3348)	1:188:A:LEU:HA	1:188:A:LEU:HB2	9	0.24
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	3	0.24
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	4	0.24
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	5	0.24
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	7	0.24
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	8	0.24
(1,3347)	1:188:A:LEU:HB2	1:188:A:LEU:HA	9	0.24
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	4	0.24
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	5	0.24
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	8	0.24
(1,3029)	1:161:A:ARG:H	1:174:A:ALA:H	4	0.24
(1,3028)	1:174:A:ALA:H	1:161:A:ARG:H	4	0.24
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	8	0.24
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	2	0.24
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	3	0.24
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	6	0.24
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	7	0.24
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	9	0.24
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	10	0.24
(1,2879)	1:163:A:VAL:HG11	1:171:A:ILE:H	1	0.24
(1,2879)	1:163:A:VAL:HG12	1:171:A:ILE:H	1	0.24
(1,2879)	1:163:A:VAL:HG13	1:171:A:ILE:H	1	0.24
(1,2853)	1:171:A:ILE:HG21	1:64:A:ARG:HD2	7	0.24
(1,2853)	1:171:A:ILE:HG22	1:64:A:ARG:HD2	7	0.24
(1,2853)	1:171:A:ILE:HG23	1:64:A:ARG:HD2	7	0.24
(1,2649)	1:161:A:ARG:HA	1:161:A:ARG:HB2	10	0.24
(1,2648)	1:161:A:ARG:HB2	1:161:A:ARG:HA	10	0.24
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	6	0.24
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	6	0.24
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	6	0.24
(1,2599)	1:149:A:ALA:HB1	1:159:A:ILE:H	4	0.24
(1,2599)	1:149:A:ALA:HB2	1:159:A:ILE:H	4	0.24
(1,2599)	1:149:A:ALA:HB3	1:159:A:ILE:H	4	0.24
(1,2485)	1:154:A:VAL:HA	1:154:A:VAL:HB	6	0.24
(1,2484)	1:154:A:VAL:HB	1:154:A:VAL:HA	6	0.24
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	1	0.24
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	1	0.24
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	1	0.24
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	5	0.24
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	8	0.24
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	10	0.24
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	5	0.24
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	8	0.24
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	10	0.24
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	1	0.24
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	2	0.24
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	3	0.24
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	5	0.24
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	8	0.24
(1,2314)	1:147:A:ARG:HB2	1:147:A:ARG:HA	10	0.24
(1,2313)	1:147:A:ARG:HA	1:147:A:ARG:HB2	10	0.24
(1,2312)	1:147:A:ARG:HB3	1:147:A:ARG:HA	4	0.24
(1,2312)	1:147:A:ARG:HB3	1:147:A:ARG:HA	9	0.24
(1,2311)	1:147:A:ARG:HA	1:147:A:ARG:HB3	4	0.24
(1,2311)	1:147:A:ARG:HA	1:147:A:ARG:HB3	9	0.24
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	3	0.24
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	4	0.24
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	5	0.24
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	8	0.24
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	3	0.24
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	4	0.24
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	5	0.24
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	8	0.24
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	8	0.24
(1,1875)	1:124:A:MET:HB2	1:129:A:LEU:HD21	10	0.24
(1,1875)	1:124:A:MET:HB2	1:129:A:LEU:HD22	10	0.24
(1,1875)	1:124:A:MET:HB2	1:129:A:LEU:HD23	10	0.24
(1,1813)	1:104:A:TYR:HD1	1:126:A:GLU:H	7	0.24
(1,1813)	1:104:A:TYR:HD2	1:126:A:GLU:H	7	0.24
(1,1806)	1:125:A:LEU:HB3	1:125:A:LEU:HA	8	0.24
(1,1805)	1:125:A:LEU:HA	1:125:A:LEU:HB3	8	0.24
(1,1776)	1:124:A:MET:HB3	1:124:A:MET:H	4	0.24
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	3	0.24
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	5	0.24
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	8	0.24
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	3	0.24
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	5	0.24
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	8	0.24
(1,1622)	1:120:A:THR:HA	1:120:A:THR:HB	4	0.24
(1,1622)	1:120:A:THR:HA	1:120:A:THR:HB	5	0.24
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	4	0.24
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	6	0.24
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	2	0.24
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	3	0.24
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	4	0.24
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	5	0.24
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	6	0.24
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	7	0.24
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	9	0.24
(1,1533)	1:114:A:VAL:HA	1:114:A:VAL:HB	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1527)	1:88:A:VAL:HG11	1:114:A:VAL:H	7	0.24
(1,1527)	1:88:A:VAL:HG12	1:114:A:VAL:H	7	0.24
(1,1527)	1:88:A:VAL:HG13	1:114:A:VAL:H	7	0.24
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	2	0.24
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	2	0.24
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	2	0.24
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	2	0.24
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	2	0.24
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	2	0.24
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	2	0.24
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	2	0.24
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	2	0.24
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	2	0.24
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	2	0.24
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	2	0.24
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	2	0.24
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	2	0.24
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	2	0.24
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	2	0.24
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	2	0.24
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	2	0.24
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	8	0.24
(1,1477)	1:110:A:ASP:HA	1:110:A:ASP:HB2	2	0.24
(1,1477)	1:110:A:ASP:HA	1:110:A:ASP:HB2	8	0.24
(1,1476)	1:110:A:ASP:HB2	1:110:A:ASP:HA	2	0.24
(1,1476)	1:110:A:ASP:HB2	1:110:A:ASP:HA	8	0.24
(1,1475)	1:110:A:ASP:HA	1:110:A:ASP:HB3	3	0.24
(1,1474)	1:110:A:ASP:HB3	1:110:A:ASP:HA	3	0.24
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	2	0.24
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	10	0.24
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	2	0.24
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	10	0.24
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	6	0.24
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	6	0.24
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	6	0.24
(1,1421)	1:106:A:THR:HA	1:106:A:THR:HB	7	0.24
(1,1421)	1:106:A:THR:HA	1:106:A:THR:HB	10	0.24
(1,1420)	1:106:A:THR:HB	1:106:A:THR:HA	7	0.24
(1,1420)	1:106:A:THR:HB	1:106:A:THR:HA	10	0.24
(1,1379)	1:102:A:VAL:HA	1:105:A:THR:H	6	0.24
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	6	0.24
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	2	0.24
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	4	0.24
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	8	0.24
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	8	0.24
(1,1233)	1:99:A:LEU:HD21	1:80:A:ALA:HA	8	0.24
(1,1233)	1:99:A:LEU:HD22	1:80:A:ALA:HA	8	0.24
(1,1233)	1:99:A:LEU:HD23	1:80:A:ALA:HA	8	0.24
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD21	8	0.24
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD22	8	0.24
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD23	8	0.24
(1,1220)	1:98:A:ASN:HA	1:98:A:ASN:HB2	1	0.24
(1,1219)	1:98:A:ASN:HB2	1:98:A:ASN:HA	1	0.24
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	6	0.24
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	6	0.24
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	6	0.24
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	10	0.24
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	10	0.24
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	10	0.24
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	6	0.24
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	6	0.24
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	6	0.24
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	10	0.24
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	10	0.24
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	10	0.24
(1,1113)	1:92:A:TRP:HA	1:92:A:TRP:HB3	1	0.24
(1,1112)	1:92:A:TRP:HB3	1:92:A:TRP:HA	1	0.24
(1,1020)	1:86:A:ASN:HB2	1:86:A:ASN:HA	4	0.24
(1,1019)	1:86:A:ASN:HA	1:86:A:ASN:HB2	4	0.24
(1,1018)	1:86:A:ASN:HB3	1:86:A:ASN:HA	8	0.24
(1,1018)	1:86:A:ASN:HB3	1:86:A:ASN:HA	9	0.24
(1,1017)	1:86:A:ASN:HA	1:86:A:ASN:HB3	8	0.24
(1,1017)	1:86:A:ASN:HA	1:86:A:ASN:HB3	9	0.24
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	2	0.24
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	3	0.24
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	4	0.24
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	5	0.24
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	7	0.24
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	8	0.24
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	9	0.24
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	2	0.24
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	3	0.24
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	5	0.24
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	7	0.24
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	8	0.24
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	9	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG11	2	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG12	2	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG13	2	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG11	2	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG12	2	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG13	2	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG11	2	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG12	2	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG13	2	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG11	8	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG12	8	0.24
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG13	8	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG11	8	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG12	8	0.24
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG13	8	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG11	8	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG12	8	0.24
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG13	8	0.24
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG21	2	0.24
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG22	2	0.24
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG23	2	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG21	2	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG22	2	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG23	2	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG21	2	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG22	2	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG23	2	0.24
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG21	8	0.24
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG22	8	0.24
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG23	8	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG21	8	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG22	8	0.24
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG23	8	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG21	8	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG22	8	0.24
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG23	8	0.24
(1,895)	1:79:A:ASP:HA	1:79:A:ASP:HB2	3	0.24
(1,895)	1:79:A:ASP:HA	1:79:A:ASP:HB2	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,894)	1:79:A:ASP:HB2	1:79:A:ASP:HA	3	0.24
(1,894)	1:79:A:ASP:HB2	1:79:A:ASP:HA	7	0.24
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE1	1	0.24
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE2	1	0.24
(1,781)	1:73:A:THR:HA	1:73:A:THR:HB	6	0.24
(1,781)	1:73:A:THR:HA	1:73:A:THR:HB	9	0.24
(1,780)	1:73:A:THR:HB	1:73:A:THR:HA	6	0.24
(1,780)	1:73:A:THR:HB	1:73:A:THR:HA	9	0.24
(1,739)	1:71:A:SER:HA	1:71:A:SER:HB3	3	0.24
(1,738)	1:71:A:SER:HB3	1:71:A:SER:HA	3	0.24
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	9	0.24
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	1	0.24
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	1	0.24
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	2	0.24
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	3	0.24
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	2	0.24
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	3	0.24
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	7	0.24
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	1	0.24
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	1	0.24
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	3	0.24
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	4	0.24
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	5	0.24
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	6	0.24
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	8	0.24
(1,465)	1:60:A:LEU:HA	1:60:A:LEU:HB2	9	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	1	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	2	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	3	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	4	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	5	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	6	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	7	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	8	0.24
(1,410)	1:58:A:LYS:HA	1:58:A:LYS:HB2	10	0.24
(1,377)	1:55:A:TYR:HE1	1:58:A:LYS:HB3	1	0.24
(1,377)	1:55:A:TYR:HE2	1:58:A:LYS:HB3	1	0.24
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	4	0.24
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	5	0.24
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	6	0.24
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	7	0.24
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	8	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	9	0.24
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	10	0.24
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	4	0.24
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	5	0.24
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	6	0.24
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	7	0.24
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	8	0.24
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	9	0.24
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	10	0.24
(1,339)	1:57:A:GLU:HB2	1:54:A:PHE:HB3	9	0.24
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	7	0.24
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	7	0.24
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	1	0.24
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	7	0.24
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	2	0.24
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	3	0.24
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	4	0.24
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	5	0.24
(1,210)	1:52:A:SER:HA	1:52:A:SER:HB2	8	0.24
(1,209)	1:52:A:SER:HB2	1:52:A:SER:HA	8	0.24
(1,131)	1:47:A:ILE:HB	1:50:A:GLU:HB3	3	0.24
(1,130)	1:50:A:GLU:HB3	1:47:A:ILE:HB	3	0.24
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	1	0.24
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	5	0.24
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	6	0.24
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	7	0.24
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	8	0.24
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	9	0.24
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	1	0.24
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	5	0.24
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	6	0.24
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	7	0.24
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	8	0.24
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	9	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	1	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	2	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	3	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	4	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	6	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	7	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	8	0.24
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	1	0.24
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	2	0.24
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	3	0.24
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	4	0.24
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	6	0.24
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	7	0.24
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	8	0.24
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	10	0.24
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	7	0.24
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	9	0.24
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	9	0.24
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	9	0.24
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	9	0.24
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	9	0.24
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	9	0.24
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	9	0.24
(1,5158)	1:243:A:VAL:HA	1:243:A:VAL:HB	5	0.23
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	1	0.23
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	1	0.23
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	1	0.23
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	1	0.23
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	2	0.23
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	1	0.23
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	2	0.23
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	4	0.23
(1,4770)	1:234:A:GLU:HB2	1:234:A:GLU:H	8	0.23
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	4	0.23
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	4	0.23
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	4	0.23
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	4	0.23
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	4	0.23
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	4	0.23
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	4	0.23
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	4	0.23
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	4	0.23
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	7	0.23
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	7	0.23
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	7	0.23
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	7	0.23
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	7	0.23
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	7	0.23
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	7	0.23
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	7	0.23
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	4	0.23
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	4	0.23
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	4	0.23
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	4	0.23
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	4	0.23
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	4	0.23
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	4	0.23
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	4	0.23
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	4	0.23
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	7	0.23
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	7	0.23
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	7	0.23
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	7	0.23
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	7	0.23
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	7	0.23
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	7	0.23
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	7	0.23
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	7	0.23
(1,4713)	1:233:A:LEU:HD21	1:162:A:TYR:HE1	9	0.23
(1,4713)	1:233:A:LEU:HD21	1:162:A:TYR:HE2	9	0.23
(1,4713)	1:233:A:LEU:HD22	1:162:A:TYR:HE1	9	0.23
(1,4713)	1:233:A:LEU:HD22	1:162:A:TYR:HE2	9	0.23
(1,4713)	1:233:A:LEU:HD23	1:162:A:TYR:HE1	9	0.23
(1,4713)	1:233:A:LEU:HD23	1:162:A:TYR:HE2	9	0.23
(1,4586)	1:228:A:LYS:HB2	1:228:A:LYS:HA	5	0.23
(1,4585)	1:228:A:LYS:HA	1:228:A:LYS:HB2	5	0.23
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD11	3	0.23
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD12	3	0.23
(1,4572)	1:228:A:LYS:HE3	1:220:A:LEU:HD13	3	0.23
(1,4571)	1:220:A:LEU:HD11	1:228:A:LYS:HE3	3	0.23
(1,4571)	1:220:A:LEU:HD12	1:228:A:LYS:HE3	3	0.23
(1,4571)	1:220:A:LEU:HD13	1:228:A:LYS:HE3	3	0.23
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	3	0.23
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	10	0.23
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	2	0.23
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	2	0.23
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	2	0.23
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	3	0.23
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	4	0.23
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	7	0.23
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	8	0.23
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	9	0.23
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	10	0.23
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	3	0.23
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	4	0.23
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	5	0.23
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	7	0.23
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	8	0.23
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	9	0.23
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	10	0.23
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	8	0.23
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	8	0.23
(1,4182)	1:211:A:ASP:HA	1:211:A:ASP:HB3	9	0.23
(1,4181)	1:211:A:ASP:HB3	1:211:A:ASP:HA	9	0.23
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	2	0.23
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	2	0.23
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	2	0.23
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	2	0.23
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	2	0.23
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	2	0.23
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	5	0.23
(1,4033)	1:204:A:LYS:HA	1:207:A:LYS:H	9	0.23
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	1	0.23
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	2	0.23
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	3	0.23
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	6	0.23
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	7	0.23
(1,3991)	1:205:A:LEU:HA	1:205:A:LEU:HB2	10	0.23
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	1	0.23
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	2	0.23
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	3	0.23
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	6	0.23
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	7	0.23
(1,3990)	1:205:A:LEU:HB2	1:205:A:LEU:HA	10	0.23
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	5	0.23
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	6	0.23
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	8	0.23
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	9	0.23
(1,3875)	1:200:A:LEU:HA	1:200:A:LEU:HB2	10	0.23
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	5	0.23
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	8	0.23
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	9	0.23
(1,3874)	1:200:A:LEU:HB2	1:200:A:LEU:HA	10	0.23
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	10	0.23
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE1	2	0.23
(1,3669)	1:112:A:VAL:HG11	1:196:A:PHE:HE2	2	0.23
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE1	2	0.23
(1,3669)	1:112:A:VAL:HG12	1:196:A:PHE:HE2	2	0.23
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE1	2	0.23
(1,3669)	1:112:A:VAL:HG13	1:196:A:PHE:HE2	2	0.23
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	1	0.23
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	7	0.23
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	10	0.23
(1,3463)	1:146:A:LEU:HD11	1:193:A:VAL:HB	9	0.23
(1,3463)	1:146:A:LEU:HD12	1:193:A:VAL:HB	9	0.23
(1,3463)	1:146:A:LEU:HD13	1:193:A:VAL:HB	9	0.23
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD11	9	0.23
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD12	9	0.23
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD13	9	0.23
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	9	0.23
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	9	0.23
(1,3210)	1:82:A:VAL:HG21	1:183:A:HIS:HD2	5	0.23
(1,3210)	1:82:A:VAL:HG22	1:183:A:HIS:HD2	5	0.23
(1,3210)	1:82:A:VAL:HG23	1:183:A:HIS:HD2	5	0.23
(1,3201)	1:182:A:ASP:HA	1:182:A:ASP:HB2	5	0.23
(1,3200)	1:182:A:ASP:HB2	1:182:A:ASP:HA	5	0.23
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	1	0.23
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	2	0.23
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	3	0.23
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	4	0.23
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	6	0.23
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	8	0.23
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	1	0.23
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	2	0.23
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	3	0.23
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	4	0.23
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	6	0.23
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	8	0.23
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	1	0.23
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	6	0.23
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	7	0.23
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	7	0.23
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	8	0.23
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	8	0.23
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	8	0.23
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	1	0.23
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	4	0.23
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	5	0.23
(1,2884)	1:171:A:ILE:HA	1:171:A:ILE:HB	8	0.23
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	1	0.23
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	1	0.23
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	1	0.23
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	1	0.23
(1,2379)	1:150:A:ARG:HA	1:150:A:ARG:HB3	3	0.23
(1,2378)	1:150:A:ARG:HB3	1:150:A:ARG:HA	3	0.23
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	8	0.23
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	4	0.23
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	6	0.23
(1,2284)	1:146:A:LEU:HB3	1:146:A:LEU:HA	7	0.23
(1,2178)	1:144:A:ASP:HA	1:144:A:ASP:HB3	4	0.23
(1,2178)	1:144:A:ASP:HA	1:144:A:ASP:HB3	6	0.23
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	6	0.23
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	7	0.23
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	9	0.23
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	6	0.23
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	7	0.23
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	9	0.23
(1,1978)	1:133:A:SER:HA	1:133:A:SER:HB2	10	0.23
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	1	0.23
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	2	0.23
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	6	0.23
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	7	0.23
(1,1977)	1:133:A:SER:HB3	1:133:A:SER:HA	9	0.23
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	1	0.23
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	2	0.23
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	6	0.23
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	7	0.23
(1,1976)	1:133:A:SER:HA	1:133:A:SER:HB3	9	0.23
(1,1947)	1:130:A:SER:HA	1:132:A:ARG:H	2	0.23
(1,1934)	1:125:A:LEU:HD21	1:132:A:ARG:HA	4	0.23
(1,1934)	1:125:A:LEU:HD22	1:132:A:ARG:HA	4	0.23
(1,1934)	1:125:A:LEU:HD23	1:132:A:ARG:HA	4	0.23
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD21	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD22	4	0.23
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD23	4	0.23
(1,1865)	1:129:A:LEU:HD21	1:94:A:PHE:H	4	0.23
(1,1865)	1:129:A:LEU:HD22	1:94:A:PHE:H	4	0.23
(1,1865)	1:129:A:LEU:HD23	1:94:A:PHE:H	4	0.23
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	4	0.23
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	4	0.23
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	4	0.23
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	10	0.23
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	10	0.23
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	10	0.23
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	2	0.23
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	2	0.23
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	4	0.23
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	4	0.23
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	1	0.23
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	2	0.23
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	5	0.23
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	9	0.23
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	10	0.23
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	2	0.23
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	3	0.23
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	4	0.23
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	5	0.23
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	7	0.23
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	8	0.23
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	10	0.23
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	2	0.23
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	3	0.23
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	4	0.23
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	5	0.23
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	7	0.23
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	8	0.23
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	10	0.23
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	10	0.23
(1,1489)	1:112:A:VAL:HG11	1:99:A:LEU:HB3	9	0.23
(1,1489)	1:112:A:VAL:HG12	1:99:A:LEU:HB3	9	0.23
(1,1489)	1:112:A:VAL:HG13	1:99:A:LEU:HB3	9	0.23
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG11	9	0.23
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG12	9	0.23
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG13	9	0.23
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	7	0.23
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	8	0.23
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	3	0.23
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	7	0.23
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	8	0.23
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	6	0.23
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	9	0.23
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	6	0.23
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	9	0.23
(1,1220)	1:98:A:ASN:HA	1:98:A:ASN:HB2	5	0.23
(1,1219)	1:98:A:ASN:HB2	1:98:A:ASN:HA	5	0.23
(1,1182)	1:96:A:LYS:HA	1:96:A:LYS:HB3	4	0.23
(1,1181)	1:96:A:LYS:HB3	1:96:A:LYS:HA	4	0.23
(1,1113)	1:92:A:TRP:HA	1:92:A:TRP:HB3	4	0.23
(1,1113)	1:92:A:TRP:HA	1:92:A:TRP:HB3	5	0.23
(1,1113)	1:92:A:TRP:HA	1:92:A:TRP:HB3	9	0.23
(1,1112)	1:92:A:TRP:HB3	1:92:A:TRP:HA	4	0.23
(1,1112)	1:92:A:TRP:HB3	1:92:A:TRP:HA	5	0.23
(1,1112)	1:92:A:TRP:HB3	1:92:A:TRP:HA	9	0.23
(1,1103)	1:83:A:TYR:HE1	1:92:A:TRP:HE1	8	0.23
(1,1103)	1:83:A:TYR:HE2	1:92:A:TRP:HE1	8	0.23
(1,1095)	1:91:A:ASP:HB2	1:91:A:ASP:H	5	0.23
(1,1020)	1:86:A:ASN:HB2	1:86:A:ASN:HA	2	0.23
(1,1020)	1:86:A:ASN:HB2	1:86:A:ASN:HA	6	0.23
(1,1019)	1:86:A:ASN:HA	1:86:A:ASN:HB2	2	0.23
(1,1019)	1:86:A:ASN:HA	1:86:A:ASN:HB2	6	0.23
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	1	0.23
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	4	0.23
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	5	0.23
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	9	0.23
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	1	0.23
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	4	0.23
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	5	0.23
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	9	0.23
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	1	0.23
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	6	0.23
(1,954)	1:82:A:VAL:HA	1:82:A:VAL:HB	10	0.23
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	1	0.23
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	6	0.23
(1,953)	1:82:A:VAL:HB	1:82:A:VAL:HA	10	0.23
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	6	0.23
(1,895)	1:79:A:ASP:HA	1:79:A:ASP:HB2	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,895)	1:79:A:ASP:HA	1:79:A:ASP:HB2	2	0.23
(1,895)	1:79:A:ASP:HA	1:79:A:ASP:HB2	6	0.23
(1,895)	1:79:A:ASP:HA	1:79:A:ASP:HB2	10	0.23
(1,894)	1:79:A:ASP:HB2	1:79:A:ASP:HA	1	0.23
(1,894)	1:79:A:ASP:HB2	1:79:A:ASP:HA	2	0.23
(1,894)	1:79:A:ASP:HB2	1:79:A:ASP:HA	6	0.23
(1,894)	1:79:A:ASP:HB2	1:79:A:ASP:HA	10	0.23
(1,869)	1:77:A:TRP:HB3	1:77:A:TRP:HA	6	0.23
(1,869)	1:77:A:TRP:HB3	1:77:A:TRP:HA	10	0.23
(1,868)	1:77:A:TRP:HA	1:77:A:TRP:HB3	6	0.23
(1,868)	1:77:A:TRP:HA	1:77:A:TRP:HB3	10	0.23
(1,846)	1:72:A:THR:HB	1:76:A:PHE:H	6	0.23
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	4	0.23
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	4	0.23
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	7	0.23
(1,758)	1:71:A:SER:H	1:72:A:THR:H	7	0.23
(1,757)	1:72:A:THR:H	1:71:A:SER:H	7	0.23
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	10	0.23
(1,669)	1:65:A:GLU:HB2	1:68:A:GLU:HG2	10	0.23
(1,668)	1:68:A:GLU:HG2	1:65:A:GLU:HB2	10	0.23
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	5	0.23
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	6	0.23
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	7	0.23
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	9	0.23
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	10	0.23
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	5	0.23
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	6	0.23
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	7	0.23
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	9	0.23
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	10	0.23
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	3	0.23
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	5	0.23
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	2	0.23
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	4	0.23
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	5	0.23
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	10	0.23
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	2	0.23
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	4	0.23
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	5	0.23
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	10	0.23
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	8	0.23
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	8	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,386)	1:58:A:LYS:HD2	1:55:A:TYR:HD1	9	0.23
(1,386)	1:58:A:LYS:HD2	1:55:A:TYR:HD2	9	0.23
(1,385)	1:55:A:TYR:HD1	1:58:A:LYS:HD2	9	0.23
(1,385)	1:55:A:TYR:HD2	1:58:A:LYS:HD2	9	0.23
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	1	0.23
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	3	0.23
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	1	0.23
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	3	0.23
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	1	0.23
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	1	0.23
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	5	0.23
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	3	0.23
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	4	0.23
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	5	0.23
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	6	0.23
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	7	0.23
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	10	0.23
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	1	0.23
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	6	0.23
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	9	0.23
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	10	0.23
(1,210)	1:52:A:SER:HA	1:52:A:SER:HB2	1	0.23
(1,209)	1:52:A:SER:HB2	1:52:A:SER:HA	1	0.23
(1,180)	1:48:A:ALA:HB1	1:51:A:GLN:HG2	4	0.23
(1,180)	1:48:A:ALA:HB2	1:51:A:GLN:HG2	4	0.23
(1,180)	1:48:A:ALA:HB3	1:51:A:GLN:HG2	4	0.23
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB1	4	0.23
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB2	4	0.23
(1,179)	1:51:A:GLN:HG2	1:48:A:ALA:HB3	4	0.23
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	2	0.23
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	3	0.23
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	4	0.23
(1,121)	1:49:A:ILE:HA	1:49:A:ILE:HB	10	0.23
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	2	0.23
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	3	0.23
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	4	0.23
(1,120)	1:49:A:ILE:HB	1:49:A:ILE:HA	10	0.23
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB1	10	0.23
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB2	10	0.23
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB3	10	0.23
(1,72)	1:48:A:ALA:HB1	1:44:A:GLN:HG2	10	0.23
(1,72)	1:48:A:ALA:HB2	1:44:A:GLN:HG2	10	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:48:A:ALA:HB3	1:44:A:GLN:HG2	10	0.23
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	9	0.23
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	9	0.23
(2,25)	1:171:A:ILE:H	1:198:A:ASP:O	4	0.22
(2,7)	1:116:A:ASP:H	1:119:A:GLY:O	6	0.22
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	8	0.22
(1,5000)	1:241:A:ALA:HB1	1:228:A:LYS:HB3	8	0.22
(1,5000)	1:241:A:ALA:HB2	1:228:A:LYS:HB3	8	0.22
(1,5000)	1:241:A:ALA:HB3	1:228:A:LYS:HB3	8	0.22
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	8	0.22
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	8	0.22
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	8	0.22
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	10	0.22
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	10	0.22
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	10	0.22
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	8	0.22
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	8	0.22
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	8	0.22
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	10	0.22
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	10	0.22
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	10	0.22
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	1	0.22
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	7	0.22
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	4	0.22
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	4	0.22
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	1	0.22
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	1	0.22
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	1	0.22
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	2	0.22
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	2	0.22
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	2	0.22
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	1	0.22
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	1	0.22
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	1	0.22
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	2	0.22
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	2	0.22
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	2	0.22
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	6	0.22
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	6	0.22
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	6	0.22
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	8	0.22
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	8	0.22
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	8	0.22
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	8	0.22
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	5	0.22
(1,4302)	1:214:A:ILE:HG21	1:209:A:GLY:H	3	0.22
(1,4302)	1:214:A:ILE:HG22	1:209:A:GLY:H	3	0.22
(1,4302)	1:214:A:ILE:HG23	1:209:A:GLY:H	3	0.22
(1,4235)	1:212:A:TYR:HA	1:212:A:TYR:HB2	1	0.22
(1,4234)	1:212:A:TYR:HB2	1:212:A:TYR:HA	1	0.22
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	4	0.22
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	8	0.22
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	10	0.22
(1,3866)	1:200:A:LEU:HD21	1:199:A:ARG:H	1	0.22
(1,3866)	1:200:A:LEU:HD22	1:199:A:ARG:H	1	0.22
(1,3866)	1:200:A:LEU:HD23	1:199:A:ARG:H	1	0.22
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	10	0.22
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	10	0.22
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	10	0.22
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	10	0.22
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	10	0.22
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	10	0.22
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	5	0.22
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	8	0.22
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	4	0.22
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	5	0.22
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	5	0.22
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	5	0.22
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG21	2	0.22
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG22	2	0.22
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG23	2	0.22
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG21	2	0.22
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG22	2	0.22
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG23	2	0.22
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG21	2	0.22
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG22	2	0.22
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG23	2	0.22
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD11	2	0.22
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD12	2	0.22
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD13	2	0.22
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD11	2	0.22
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD12	2	0.22
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD13	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD11	2	0.22
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD12	2	0.22
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD13	2	0.22
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	5	0.22
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	5	0.22
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	5	0.22
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	5	0.22
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	5	0.22
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	5	0.22
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	5	0.22
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	5	0.22
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	5	0.22
(1,3524)	1:194:A:MET:HE1	1:84:A:LEU:HG	2	0.22
(1,3524)	1:194:A:MET:HE2	1:84:A:LEU:HG	2	0.22
(1,3524)	1:194:A:MET:HE3	1:84:A:LEU:HG	2	0.22
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE1	2	0.22
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE2	2	0.22
(1,3523)	1:84:A:LEU:HG	1:194:A:MET:HE3	2	0.22
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD11	2	0.22
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD12	2	0.22
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD13	2	0.22
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD11	2	0.22
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD12	2	0.22
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD13	2	0.22
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD11	2	0.22
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD12	2	0.22
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD13	2	0.22
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	2	0.22
(1,3493)	1:176:A:ALA:HA	1:193:A:VAL:H	3	0.22
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	6	0.22
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	6	0.22
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	8	0.22
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	8	0.22
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	8	0.22
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	8	0.22
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	8	0.22
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	8	0.22
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	8	0.22
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	8	0.22
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	8	0.22
(1,3301)	1:188:A:LEU:HD11	1:150:A:ARG:HA	5	0.22
(1,3301)	1:188:A:LEU:HD12	1:150:A:ARG:HA	5	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3301)	1:188:A:LEU:HD13	1:150:A:ARG:HA	5	0.22
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD11	5	0.22
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD12	5	0.22
(1,3300)	1:150:A:ARG:HA	1:188:A:LEU:HD13	5	0.22
(1,3226)	1:183:A:HIS:HD2	1:183:A:HIS:H	9	0.22
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	10	0.22
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD11	2	0.22
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD12	2	0.22
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD13	2	0.22
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD11	2	0.22
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD12	2	0.22
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD13	2	0.22
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD11	2	0.22
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD12	2	0.22
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD13	2	0.22
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	8	0.22
(1,2921)	1:162:A:TYR:HA	1:172:A:LEU:H	7	0.22
(1,2916)	1:145:A:ILE:HG21	1:172:A:LEU:HG	7	0.22
(1,2916)	1:145:A:ILE:HG22	1:172:A:LEU:HG	7	0.22
(1,2916)	1:145:A:ILE:HG23	1:172:A:LEU:HG	7	0.22
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG21	7	0.22
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG22	7	0.22
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG23	7	0.22
(1,2757)	1:166:A:ASP:HB3	1:166:A:ASP:HA	2	0.22
(1,2756)	1:166:A:ASP:HA	1:166:A:ASP:HB3	2	0.22
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	3	0.22
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	3	0.22
(1,2687)	1:163:A:VAL:HG21	1:161:A:ARG:HB2	5	0.22
(1,2687)	1:163:A:VAL:HG22	1:161:A:ARG:HB2	5	0.22
(1,2687)	1:163:A:VAL:HG23	1:161:A:ARG:HB2	5	0.22
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG21	5	0.22
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG22	5	0.22
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG23	5	0.22
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE1	8	0.22
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE2	8	0.22
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE1	8	0.22
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE2	8	0.22
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE1	8	0.22
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE2	8	0.22
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD21	8	0.22
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD22	8	0.22
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD23	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD21	8	0.22
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD22	8	0.22
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD23	8	0.22
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	1	0.22
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	1	0.22
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	1	0.22
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	4	0.22
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	4	0.22
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	4	0.22
(1,2460)	1:154:A:VAL:HG11	1:151:A:ARG:HG2	2	0.22
(1,2460)	1:154:A:VAL:HG12	1:151:A:ARG:HG2	2	0.22
(1,2460)	1:154:A:VAL:HG13	1:151:A:ARG:HG2	2	0.22
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	4	0.22
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	4	0.22
(1,2341)	1:148:A:SER:HB2	1:148:A:SER:H	9	0.22
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	1	0.22
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	2	0.22
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	3	0.22
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	10	0.22
(1,2184)	1:115:A:ILE:HD11	1:145:A:ILE:HB	7	0.22
(1,2184)	1:115:A:ILE:HD12	1:145:A:ILE:HB	7	0.22
(1,2184)	1:115:A:ILE:HD13	1:145:A:ILE:HB	7	0.22
(1,2183)	1:145:A:ILE:HB	1:115:A:ILE:HD11	7	0.22
(1,2183)	1:145:A:ILE:HB	1:115:A:ILE:HD12	7	0.22
(1,2183)	1:145:A:ILE:HB	1:115:A:ILE:HD13	7	0.22
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	4	0.22
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	4	0.22
(1,1972)	1:132:A:ARG:HD2	1:133:A:SER:H	7	0.22
(1,1955)	1:132:A:ARG:HB3	1:132:A:ARG:HA	2	0.22
(1,1947)	1:130:A:SER:HA	1:132:A:ARG:H	1	0.22
(1,1934)	1:125:A:LEU:HD21	1:132:A:ARG:HA	6	0.22
(1,1934)	1:125:A:LEU:HD22	1:132:A:ARG:HA	6	0.22
(1,1934)	1:125:A:LEU:HD23	1:132:A:ARG:HA	6	0.22
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD21	6	0.22
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD22	6	0.22
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD23	6	0.22
(1,1928)	1:131:A:GLU:HB2	1:131:A:GLU:HA	7	0.22
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	6	0.22
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	3	0.22
(1,1685)	1:114:A:VAL:HA	1:122:A:TYR:H	8	0.22
(1,1676)	1:112:A:VAL:HG21	1:122:A:TYR:HE1	1	0.22
(1,1676)	1:112:A:VAL:HG21	1:122:A:TYR:HE2	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1676)	1:112:A:VAL:HG22	1:122:A:TYR:HE1	1	0.22
(1,1676)	1:112:A:VAL:HG22	1:122:A:TYR:HE2	1	0.22
(1,1676)	1:112:A:VAL:HG23	1:122:A:TYR:HE1	1	0.22
(1,1676)	1:112:A:VAL:HG23	1:122:A:TYR:HE2	1	0.22
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG21	1	0.22
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG22	1	0.22
(1,1675)	1:122:A:TYR:HE1	1:112:A:VAL:HG23	1	0.22
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG21	1	0.22
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG22	1	0.22
(1,1675)	1:122:A:TYR:HE2	1:112:A:VAL:HG23	1	0.22
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	1	0.22
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	1	0.22
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	6	0.22
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	6	0.22
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	6	0.22
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	6	0.22
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	6	0.22
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	6	0.22
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	6	0.22
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	6	0.22
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	6	0.22
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	6	0.22
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	6	0.22
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	6	0.22
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	6	0.22
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	6	0.22
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	6	0.22
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	6	0.22
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	6	0.22
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	6	0.22
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	2	0.22
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	4	0.22
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	6	0.22
(1,1475)	1:110:A:ASP:HA	1:110:A:ASP:HB3	5	0.22
(1,1475)	1:110:A:ASP:HA	1:110:A:ASP:HB3	9	0.22
(1,1474)	1:110:A:ASP:HB3	1:110:A:ASP:HA	5	0.22
(1,1474)	1:110:A:ASP:HB3	1:110:A:ASP:HA	9	0.22
(1,1459)	1:109:A:TYR:HD1	1:108:A:GLY:H	7	0.22
(1,1459)	1:109:A:TYR:HD2	1:108:A:GLY:H	7	0.22
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	1	0.22
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	6	0.22
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	1	0.22
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	6	0.22
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	9	0.22
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	2	0.22
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	3	0.22
(1,1306)	1:102:A:VAL:HB	1:102:A:VAL:H	6	0.22
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	1	0.22
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	2	0.22
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	1	0.22
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	2	0.22
(1,1223)	1:98:A:ASN:HB2	1:98:A:ASN:H	8	0.22
(1,1216)	1:97:A:ASN:H	1:98:A:ASN:H	4	0.22
(1,1215)	1:98:A:ASN:H	1:97:A:ASN:H	4	0.22
(1,1201)	1:97:A:ASN:HA	1:97:A:ASN:HB2	3	0.22
(1,1200)	1:97:A:ASN:HB2	1:97:A:ASN:HA	3	0.22
(1,1199)	1:97:A:ASN:HA	1:97:A:ASN:HB3	8	0.22
(1,1198)	1:97:A:ASN:HB3	1:97:A:ASN:HA	8	0.22
(1,1184)	1:96:A:LYS:HA	1:96:A:LYS:HB2	9	0.22
(1,1183)	1:96:A:LYS:HB2	1:96:A:LYS:HA	9	0.22
(1,1182)	1:96:A:LYS:HA	1:96:A:LYS:HB3	5	0.22
(1,1181)	1:96:A:LYS:HB3	1:96:A:LYS:HA	5	0.22
(1,1075)	1:88:A:VAL:HG11	1:90:A:ALA:HA	8	0.22
(1,1075)	1:88:A:VAL:HG12	1:90:A:ALA:HA	8	0.22
(1,1075)	1:88:A:VAL:HG13	1:90:A:ALA:HA	8	0.22
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG11	8	0.22
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG12	8	0.22
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG13	8	0.22
(1,1062)	1:84:A:LEU:HD21	1:89:A:ASP:HB3	2	0.22
(1,1062)	1:84:A:LEU:HD22	1:89:A:ASP:HB3	2	0.22
(1,1062)	1:84:A:LEU:HD23	1:89:A:ASP:HB3	2	0.22
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD21	2	0.22
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD22	2	0.22
(1,1061)	1:89:A:ASP:HB3	1:84:A:LEU:HD23	2	0.22
(1,1054)	1:88:A:VAL:HB	1:88:A:VAL:H	4	0.22
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	2	0.22
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	3	0.22
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	6	0.22
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	7	0.22
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	8	0.22
(1,980)	1:83:A:TYR:HB2	1:83:A:TYR:HA	10	0.22
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	2	0.22
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	6	0.22
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	7	0.22
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	8	0.22
(1,979)	1:83:A:TYR:HA	1:83:A:TYR:HB2	10	0.22
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	4	0.22
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	7	0.22
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	8	0.22
(1,826)	1:72:A:THR:HG21	1:75:A:SER:HB2	1	0.22
(1,826)	1:72:A:THR:HG22	1:75:A:SER:HB2	1	0.22
(1,826)	1:72:A:THR:HG23	1:75:A:SER:HB2	1	0.22
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG21	1	0.22
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG22	1	0.22
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG23	1	0.22
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	9	0.22
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	9	0.22
(1,815)	1:74:A:TYR:H	1:73:A:THR:H	2	0.22
(1,814)	1:73:A:THR:H	1:74:A:TYR:H	2	0.22
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	4	0.22
(1,758)	1:71:A:SER:H	1:72:A:THR:H	9	0.22
(1,757)	1:72:A:THR:H	1:71:A:SER:H	9	0.22
(1,739)	1:71:A:SER:HA	1:71:A:SER:HB3	5	0.22
(1,738)	1:71:A:SER:HB3	1:71:A:SER:HA	5	0.22
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	4	0.22
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	5	0.22
(1,702)	1:69:A:GLN:HA	1:69:A:GLN:HB2	5	0.22
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	6	0.22
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	9	0.22
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	9	0.22
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	1	0.22
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	4	0.22
(1,646)	1:67:A:SER:HA	1:67:A:SER:HB3	8	0.22
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	1	0.22
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	4	0.22
(1,645)	1:67:A:SER:HB3	1:67:A:SER:HA	8	0.22
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	4	0.22
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	8	0.22
(1,628)	1:65:A:GLU:H	1:66:A:ASN:H	10	0.22
(1,627)	1:66:A:ASN:H	1:65:A:GLU:H	10	0.22
(1,610)	1:65:A:GLU:HA	1:65:A:GLU:HB3	2	0.22
(1,609)	1:65:A:GLU:HB3	1:65:A:GLU:HA	2	0.22
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	7	0.22
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	5	0.22
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	5	0.22
(1,540)	1:63:A:ARG:HB2	1:60:A:LEU:HG	5	0.22
(1,539)	1:60:A:LEU:HG	1:63:A:ARG:HB2	5	0.22
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	2	0.22
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	5	0.22
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	6	0.22
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	8	0.22
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	10	0.22
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	3	0.22
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	5	0.22
(1,501)	1:58:A:LYS:HD3	1:62:A:ASN:HD22	8	0.22
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	1	0.22
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	1	0.22
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	2	0.22
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	3	0.22
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	6	0.22
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	9	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	2	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	3	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	4	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	5	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	6	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	7	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	8	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	9	0.22
(1,303)	1:55:A:TYR:HA	1:55:A:TYR:HB2	10	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	2	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	3	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	4	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	5	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	6	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	7	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	8	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	9	0.22
(1,302)	1:55:A:TYR:HB2	1:55:A:TYR:HA	10	0.22
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	1	0.22
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	2	0.22
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	8	0.22
(1,263)	1:54:A:PHE:HA	1:54:A:PHE:HB3	9	0.22
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	2	0.22
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:52:A:SER:HB2	1:52:A:SER:H	7	0.22
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	1	0.22
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	9	0.22
(1,194)	1:51:A:GLN:HA	1:51:A:GLN:HB2	3	0.22
(1,193)	1:51:A:GLN:HB2	1:51:A:GLN:HA	3	0.22
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	10	0.22
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	10	0.22
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	10	0.22
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG21	4	0.22
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG22	4	0.22
(1,110)	1:46:A:ASP:HB3	1:49:A:ILE:HG23	4	0.22
(1,109)	1:49:A:ILE:HG21	1:46:A:ASP:HB3	4	0.22
(1,109)	1:49:A:ILE:HG22	1:46:A:ASP:HB3	4	0.22
(1,109)	1:49:A:ILE:HG23	1:46:A:ASP:HB3	4	0.22
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	1	0.22
(1,5213)	1:246:A:ARG:HG2	1:244:A:SER:HB2	1	0.21
(1,5212)	1:244:A:SER:HB2	1:246:A:ARG:HG2	1	0.21
(1,5180)	1:244:A:SER:HA	1:242:A:TRP:HE1	6	0.21
(1,5177)	1:244:A:SER:HB2	1:229:A:GLU:HG2	9	0.21
(1,5176)	1:229:A:GLU:HG2	1:244:A:SER:HB2	9	0.21
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG21	6	0.21
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG22	6	0.21
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG23	6	0.21
(1,5164)	1:49:A:ILE:HG21	1:244:A:SER:HB3	6	0.21
(1,5164)	1:49:A:ILE:HG22	1:244:A:SER:HB3	6	0.21
(1,5164)	1:49:A:ILE:HG23	1:244:A:SER:HB3	6	0.21
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	4	0.21
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	6	0.21
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	2	0.21
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	2	0.21
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	2	0.21
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	2	0.21
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	2	0.21
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	2	0.21
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	7	0.21
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	7	0.21
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	7	0.21
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	7	0.21
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	7	0.21
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	7	0.21
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	7	0.21
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	7	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	7	0.21
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	1	0.21
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	2	0.21
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	6	0.21
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	9	0.21
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	6	0.21
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	7	0.21
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	7	0.21
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	7	0.21
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	6	0.21
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	10	0.21
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	6	0.21
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	10	0.21
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	5	0.21
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	5	0.21
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	5	0.21
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	8	0.21
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	1	0.21
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	2	0.21
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	4	0.21
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	5	0.21
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	6	0.21
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	7	0.21
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	1	0.21
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	3	0.21
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	7	0.21
(1,4031)	1:207:A:LYS:HG3	1:204:A:LYS:HG2	8	0.21
(1,4030)	1:204:A:LYS:HG2	1:207:A:LYS:HG3	8	0.21
(1,3974)	1:205:A:LEU:HD21	1:202:A:PRO:HD3	3	0.21
(1,3974)	1:205:A:LEU:HD22	1:202:A:PRO:HD3	3	0.21
(1,3974)	1:205:A:LEU:HD23	1:202:A:PRO:HD3	3	0.21
(1,3974)	1:205:A:LEU:HD21	1:202:A:PRO:HD3	10	0.21
(1,3974)	1:205:A:LEU:HD22	1:202:A:PRO:HD3	10	0.21
(1,3974)	1:205:A:LEU:HD23	1:202:A:PRO:HD3	10	0.21
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD21	3	0.21
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD22	3	0.21
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD23	3	0.21
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD21	10	0.21
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD22	10	0.21
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD23	10	0.21
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD1	6	0.21
(1,3776)	1:198:A:ASP:HB3	1:196:A:PHE:HD2	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3775)	1:196:A:PHE:HD1	1:198:A:ASP:HB3	6	0.21
(1,3775)	1:196:A:PHE:HD2	1:198:A:ASP:HB3	6	0.21
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	1	0.21
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	3	0.21
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	9	0.21
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	8	0.21
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	8	0.21
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	8	0.21
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	4	0.21
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	5	0.21
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	10	0.21
(1,3377)	1:190:A:LYS:HB3	1:189:A:ALA:H	2	0.21
(1,3377)	1:190:A:LYS:HB3	1:189:A:ALA:H	8	0.21
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	3	0.21
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	3	0.21
(1,3117)	1:177:A:ILE:HA	1:177:A:ILE:HB	9	0.21
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	10	0.21
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	10	0.21
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	10	0.21
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	10	0.21
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	10	0.21
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	10	0.21
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	10	0.21
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	10	0.21
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	10	0.21
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	10	0.21
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	10	0.21
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	10	0.21
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	9	0.21
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	10	0.21
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	2	0.21
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	3	0.21
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	9	0.21
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	2	0.21
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	3	0.21
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	9	0.21
(1,2921)	1:162:A:TYR:HA	1:172:A:LEU:H	1	0.21
(1,2921)	1:162:A:TYR:HA	1:172:A:LEU:H	6	0.21
(1,2757)	1:166:A:ASP:HB3	1:166:A:ASP:HA	5	0.21
(1,2757)	1:166:A:ASP:HB3	1:166:A:ASP:HA	6	0.21
(1,2756)	1:166:A:ASP:HA	1:166:A:ASP:HB3	5	0.21
(1,2756)	1:166:A:ASP:HA	1:166:A:ASP:HB3	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	2	0.21
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	2	0.21
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	5	0.21
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	5	0.21
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD11	1	0.21
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD12	1	0.21
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD13	1	0.21
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG21	9	0.21
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG22	9	0.21
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG23	9	0.21
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG21	9	0.21
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG22	9	0.21
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG23	9	0.21
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG21	9	0.21
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG22	9	0.21
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG23	9	0.21
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD11	9	0.21
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD12	9	0.21
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD13	9	0.21
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD11	9	0.21
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD12	9	0.21
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD13	9	0.21
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD11	9	0.21
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD12	9	0.21
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD13	9	0.21
(1,2544)	1:156:A:GLU:H	1:157:A:ALA:H	9	0.21
(1,2521)	1:156:A:GLU:HA	1:156:A:GLU:HB2	2	0.21
(1,2520)	1:156:A:GLU:HB2	1:156:A:GLU:HA	2	0.21
(1,2519)	1:156:A:GLU:HA	1:156:A:GLU:HB3	3	0.21
(1,2519)	1:156:A:GLU:HA	1:156:A:GLU:HB3	9	0.21
(1,2519)	1:156:A:GLU:HA	1:156:A:GLU:HB3	10	0.21
(1,2518)	1:156:A:GLU:HB3	1:156:A:GLU:HA	3	0.21
(1,2518)	1:156:A:GLU:HB3	1:156:A:GLU:HA	9	0.21
(1,2518)	1:156:A:GLU:HB3	1:156:A:GLU:HA	10	0.21
(1,2475)	1:151:A:ARG:HA	1:154:A:VAL:H	3	0.21
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	6	0.21
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	4	0.21
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	5	0.21
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	7	0.21
(1,2330)	1:147:A:ARG:HA	1:148:A:SER:H	9	0.21
(1,2284)	1:146:A:LEU:HB3	1:146:A:LEU:HA	6	0.21
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2042)	1:136:A:ASP:HA	1:136:A:ASP:H	10	0.21
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	1	0.21
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	10	0.21
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	1	0.21
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	10	0.21
(1,2028)	1:136:A:ASP:HB2	1:132:A:ARG:HG3	7	0.21
(1,2027)	1:132:A:ARG:HG3	1:136:A:ASP:HB2	7	0.21
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	5	0.21
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	5	0.21
(1,1961)	1:132:A:ARG:HA	1:132:A:ARG:H	8	0.21
(1,1949)	1:132:A:ARG:HG3	1:131:A:GLU:H	8	0.21
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	2	0.21
(1,1888)	1:129:A:LEU:HA	1:129:A:LEU:HB3	10	0.21
(1,1808)	1:125:A:LEU:HB2	1:125:A:LEU:HA	10	0.21
(1,1807)	1:125:A:LEU:HA	1:125:A:LEU:HB2	10	0.21
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	1	0.21
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	7	0.21
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	1	0.21
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	7	0.21
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	1	0.21
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	3	0.21
(1,1489)	1:112:A:VAL:HG11	1:99:A:LEU:HB3	6	0.21
(1,1489)	1:112:A:VAL:HG12	1:99:A:LEU:HB3	6	0.21
(1,1489)	1:112:A:VAL:HG13	1:99:A:LEU:HB3	6	0.21
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG11	6	0.21
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG12	6	0.21
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG13	6	0.21
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	5	0.21
(1,1475)	1:110:A:ASP:HA	1:110:A:ASP:HB3	1	0.21
(1,1475)	1:110:A:ASP:HA	1:110:A:ASP:HB3	4	0.21
(1,1474)	1:110:A:ASP:HB3	1:110:A:ASP:HA	1	0.21
(1,1474)	1:110:A:ASP:HB3	1:110:A:ASP:HA	4	0.21
(1,1459)	1:109:A:TYR:HD1	1:108:A:GLY:H	1	0.21
(1,1459)	1:109:A:TYR:HD2	1:108:A:GLY:H	1	0.21
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	4	0.21
(1,1437)	1:107:A:ASN:HA	1:107:A:ASN:HB3	5	0.21
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	4	0.21
(1,1436)	1:107:A:ASN:HB3	1:107:A:ASN:HA	5	0.21
(1,1379)	1:102:A:VAL:HA	1:105:A:THR:H	2	0.21
(1,1379)	1:102:A:VAL:HA	1:105:A:THR:H	3	0.21
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	10	0.21
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1312)	1:70:A:PHE:HE1	1:103:A:LEU:HD21	8	0.21
(1,1312)	1:70:A:PHE:HE1	1:103:A:LEU:HD22	8	0.21
(1,1312)	1:70:A:PHE:HE1	1:103:A:LEU:HD23	8	0.21
(1,1312)	1:70:A:PHE:HE2	1:103:A:LEU:HD21	8	0.21
(1,1312)	1:70:A:PHE:HE2	1:103:A:LEU:HD22	8	0.21
(1,1312)	1:70:A:PHE:HE2	1:103:A:LEU:HD23	8	0.21
(1,1301)	1:102:A:VAL:H	1:101:A:SER:H	6	0.21
(1,1300)	1:101:A:SER:H	1:102:A:VAL:H	6	0.21
(1,1261)	1:99:A:LEU:HA	1:99:A:LEU:HB2	3	0.21
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	7	0.21
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	7	0.21
(1,1216)	1:97:A:ASN:H	1:98:A:ASN:H	1	0.21
(1,1215)	1:98:A:ASN:H	1:97:A:ASN:H	1	0.21
(1,1199)	1:97:A:ASN:HA	1:97:A:ASN:HB3	9	0.21
(1,1199)	1:97:A:ASN:HA	1:97:A:ASN:HB3	10	0.21
(1,1198)	1:97:A:ASN:HB3	1:97:A:ASN:HA	9	0.21
(1,1198)	1:97:A:ASN:HB3	1:97:A:ASN:HA	10	0.21
(1,1182)	1:96:A:LYS:HA	1:96:A:LYS:HB3	2	0.21
(1,1181)	1:96:A:LYS:HB3	1:96:A:LYS:HA	2	0.21
(1,1075)	1:88:A:VAL:HG11	1:90:A:ALA:HA	5	0.21
(1,1075)	1:88:A:VAL:HG12	1:90:A:ALA:HA	5	0.21
(1,1075)	1:88:A:VAL:HG13	1:90:A:ALA:HA	5	0.21
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG11	5	0.21
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG12	5	0.21
(1,1074)	1:90:A:ALA:HA	1:88:A:VAL:HG13	5	0.21
(1,1018)	1:86:A:ASN:HB3	1:86:A:ASN:HA	1	0.21
(1,1018)	1:86:A:ASN:HB3	1:86:A:ASN:HA	5	0.21
(1,1017)	1:86:A:ASN:HA	1:86:A:ASN:HB3	1	0.21
(1,1017)	1:86:A:ASN:HA	1:86:A:ASN:HB3	5	0.21
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	8	0.21
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	1	0.21
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	1	0.21
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	1	0.21
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	1	0.21
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	1	0.21
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	1	0.21
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	1	0.21
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	1	0.21
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	1	0.21
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	1	0.21
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	1	0.21
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,952)	1:82:A:VAL:H	1:81:A:TYR:H	8	0.21
(1,951)	1:81:A:TYR:H	1:82:A:VAL:H	8	0.21
(1,921)	1:81:A:TYR:H	1:80:A:ALA:H	4	0.21
(1,920)	1:80:A:ALA:H	1:81:A:TYR:H	4	0.21
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	1	0.21
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	9	0.21
(1,897)	1:79:A:ASP:HB3	1:79:A:ASP:H	1	0.21
(1,869)	1:77:A:TRP:HB3	1:77:A:TRP:HA	1	0.21
(1,869)	1:77:A:TRP:HB3	1:77:A:TRP:HA	8	0.21
(1,868)	1:77:A:TRP:HA	1:77:A:TRP:HB3	1	0.21
(1,868)	1:77:A:TRP:HA	1:77:A:TRP:HB3	8	0.21
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	1	0.21
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	2	0.21
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	5	0.21
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	6	0.21
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	7	0.21
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	8	0.21
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	10	0.21
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	1	0.21
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	2	0.21
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	5	0.21
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	6	0.21
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	7	0.21
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	8	0.21
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	10	0.21
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	6	0.21
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	8	0.21
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	10	0.21
(1,758)	1:71:A:SER:H	1:72:A:THR:H	8	0.21
(1,757)	1:72:A:THR:H	1:71:A:SER:H	8	0.21
(1,755)	1:71:A:SER:HA	1:72:A:THR:H	6	0.21
(1,741)	1:71:A:SER:HA	1:71:A:SER:HB2	8	0.21
(1,740)	1:71:A:SER:HB2	1:71:A:SER:HA	8	0.21
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	2	0.21
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	7	0.21
(1,691)	1:66:A:ASN:HA	1:69:A:GLN:H	9	0.21
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	1	0.21
(1,637)	1:64:A:ARG:HG3	1:67:A:SER:HB2	4	0.21
(1,636)	1:67:A:SER:HB2	1:64:A:ARG:HG3	4	0.21
(1,610)	1:65:A:GLU:HA	1:65:A:GLU:HB3	9	0.21
(1,609)	1:65:A:GLU:HB3	1:65:A:GLU:HA	9	0.21
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,527)	1:62:A:ASN:HB2	1:62:A:ASN:HA	9	0.21
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	3	0.21
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	7	0.21
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	9	0.21
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	3	0.21
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	7	0.21
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	9	0.21
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	6	0.21
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	6	0.21
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	6	0.21
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	6	0.21
(1,355)	1:57:A:GLU:HA	1:57:A:GLU:HB2	2	0.21
(1,354)	1:57:A:GLU:HB2	1:57:A:GLU:HA	2	0.21
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	1	0.21
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	5	0.21
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	7	0.21
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	8	0.21
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	10	0.21
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	9	0.21
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	9	0.21
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	10	0.21
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	9	0.21
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	10	0.21
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	3	0.21
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	4	0.21
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	6	0.21
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	7	0.21
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	8	0.21
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	10	0.21
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	8	0.21
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	9	0.21
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	3	0.21
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	6	0.21
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	10	0.21
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	5	0.21
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	5	0.21
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	5	0.21
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	7	0.21
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	7	0.21
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	7	0.21
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	7	0.21
(1,5211)	1:49:A:ILE:HG21	1:246:A:ARG:HD3	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5211)	1:49:A:ILE:HG22	1:246:A:ARG:HD3	8	0.2
(1,5211)	1:49:A:ILE:HG23	1:246:A:ARG:HD3	8	0.2
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG21	8	0.2
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG22	8	0.2
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG23	8	0.2
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	6	0.2
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	6	0.2
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	6	0.2
(1,5075)	1:229:A:GLU:HB2	1:242:A:TRP:H	9	0.2
(1,5047)	1:214:A:ILE:HD11	1:242:A:TRP:HD1	8	0.2
(1,5047)	1:214:A:ILE:HD12	1:242:A:TRP:HD1	8	0.2
(1,5047)	1:214:A:ILE:HD13	1:242:A:TRP:HD1	8	0.2
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD11	8	0.2
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD12	8	0.2
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD13	8	0.2
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	1	0.2
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	1	0.2
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	1	0.2
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	1	0.2
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	1	0.2
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	1	0.2
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	1	0.2
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	1	0.2
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	1	0.2
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	1	0.2
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	1	0.2
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	1	0.2
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	1	0.2
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	1	0.2
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	1	0.2
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	10	0.2
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	10	0.2
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	10	0.2
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	10	0.2
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	10	0.2
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	10	0.2
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	10	0.2
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	10	0.2
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	10	0.2
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	1	0.2
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	1	0.2
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	1	0.2
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	1	0.2
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	1	0.2
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	1	0.2
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	1	0.2
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	1	0.2
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	10	0.2
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	10	0.2
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	10	0.2
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	10	0.2
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	10	0.2
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	10	0.2
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	10	0.2
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	10	0.2
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	10	0.2
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	2	0.2
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	4	0.2
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	5	0.2
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	7	0.2
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	8	0.2
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	10	0.2
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	7	0.2
(1,4227)	1:211:A:ASP:HB2	1:212:A:TYR:HE1	9	0.2
(1,4227)	1:211:A:ASP:HB2	1:212:A:TYR:HE2	9	0.2
(1,4226)	1:212:A:TYR:HE1	1:211:A:ASP:HB2	9	0.2
(1,4226)	1:212:A:TYR:HE2	1:211:A:ASP:HB2	9	0.2
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	4	0.2
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	4	0.2
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	6	0.2
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	7	0.2
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	6	0.2
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	7	0.2
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	3	0.2
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	8	0.2
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	9	0.2
(1,4178)	1:210:A:GLY:HA2	1:211:A:ASP:H	10	0.2
(1,4127)	1:208:A:LEU:HB3	1:208:A:LEU:HA	2	0.2
(1,4127)	1:208:A:LEU:HB3	1:208:A:LEU:HA	9	0.2
(1,3836)	1:200:A:LEU:HD21	1:63:A:ARG:HE	10	0.2
(1,3836)	1:200:A:LEU:HD22	1:63:A:ARG:HE	10	0.2
(1,3836)	1:200:A:LEU:HD23	1:63:A:ARG:HE	10	0.2
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	6	0.2
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	10	0.2
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	6	0.2
(1,3539)	1:176:A:ALA:HA	1:194:A:MET:H	7	0.2
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	1	0.2
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	7	0.2
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	1	0.2
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	7	0.2
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD21	8	0.2
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD22	8	0.2
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD23	8	0.2
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD21	8	0.2
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD22	8	0.2
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD23	8	0.2
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD21	8	0.2
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD22	8	0.2
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD23	8	0.2
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	1	0.2
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	8	0.2
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG11	5	0.2
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG12	5	0.2
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG13	5	0.2
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG11	5	0.2
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG12	5	0.2
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG13	5	0.2
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG11	5	0.2
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG12	5	0.2
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG13	5	0.2
(1,3478)	1:193:A:VAL:HG21	1:149:A:ALA:H	2	0.2
(1,3478)	1:193:A:VAL:HG22	1:149:A:ALA:H	2	0.2
(1,3478)	1:193:A:VAL:HG23	1:149:A:ALA:H	2	0.2
(1,3430)	1:192:A:SER:HA	1:117:A:ASP:H	9	0.2
(1,3397)	1:191:A:ALA:HB1	1:150:A:ARG:HE	1	0.2
(1,3397)	1:191:A:ALA:HB2	1:150:A:ARG:HE	1	0.2
(1,3397)	1:191:A:ALA:HB3	1:150:A:ARG:HE	1	0.2
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	2	0.2
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	2	0.2
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	2	0.2
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	2	0.2
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	2	0.2
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	2	0.2
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	2	0.2
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	2	0.2
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	9	0.2
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	9	0.2
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	9	0.2
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	9	0.2
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	9	0.2
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	9	0.2
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	9	0.2
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	9	0.2
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	9	0.2
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	2	0.2
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	2	0.2
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	2	0.2
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	2	0.2
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	2	0.2
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	2	0.2
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	10	0.2
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	10	0.2
(1,3171)	1:180:A:THR:HG21	1:81:A:TYR:HD1	3	0.2
(1,3171)	1:180:A:THR:HG21	1:81:A:TYR:HD2	3	0.2
(1,3171)	1:180:A:THR:HG22	1:81:A:TYR:HD1	3	0.2
(1,3171)	1:180:A:THR:HG22	1:81:A:TYR:HD2	3	0.2
(1,3171)	1:180:A:THR:HG23	1:81:A:TYR:HD1	3	0.2
(1,3171)	1:180:A:THR:HG23	1:81:A:TYR:HD2	3	0.2
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG21	3	0.2
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG22	3	0.2
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG23	3	0.2
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG21	3	0.2
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG22	3	0.2
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG23	3	0.2
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	4	0.2
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	4	0.2
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	4	0.2
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	10	0.2
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	5	0.2
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	5	0.2
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	1	0.2
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	5	0.2
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	6	0.2
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	9	0.2
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	2	0.2
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG11	1	0.2
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG12	1	0.2
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG13	1	0.2
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG11	1	0.2
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG12	1	0.2
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG13	1	0.2
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG11	1	0.2
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG12	1	0.2
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG13	1	0.2
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD11	1	0.2
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD12	1	0.2
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD13	1	0.2
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD11	1	0.2
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD12	1	0.2
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD13	1	0.2
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD11	1	0.2
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD12	1	0.2
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD13	1	0.2
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	6	0.2
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	6	0.2
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	6	0.2
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	1	0.2
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	3	0.2
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	6	0.2
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	1	0.2
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	4	0.2
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	6	0.2
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	8	0.2
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	1	0.2
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	4	0.2
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	6	0.2
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	8	0.2
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	8	0.2
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	8	0.2
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	2	0.2
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	5	0.2
(1,2532)	1:153:A:ALA:HB1	1:157:A:ALA:H	4	0.2
(1,2532)	1:153:A:ALA:HB2	1:157:A:ALA:H	4	0.2
(1,2532)	1:153:A:ALA:HB3	1:157:A:ALA:H	4	0.2
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	3	0.2
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	3	0.2
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	10	0.2
(1,2312)	1:147:A:ARG:HB3	1:147:A:ARG:HA	6	0.2
(1,2311)	1:147:A:ARG:HA	1:147:A:ARG:HB3	6	0.2
(1,2287)	1:146:A:LEU:HA	1:146:A:LEU:HB2	5	0.2
(1,2286)	1:146:A:LEU:HB2	1:146:A:LEU:HA	5	0.2
(1,2273)	1:143:A:GLY:HA3	1:146:A:LEU:H	4	0.2
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	7	0.2
(1,2174)	1:141:A:ASP:HA	1:144:A:ASP:H	8	0.2
(1,2042)	1:136:A:ASP:HA	1:136:A:ASP:H	8	0.2
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	2	0.2
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	2	0.2
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	3	0.2
(1,1928)	1:131:A:GLU:HB2	1:131:A:GLU:HA	5	0.2
(1,1899)	1:123:A:ALA:HB1	1:130:A:SER:HB2	8	0.2
(1,1899)	1:123:A:ALA:HB2	1:130:A:SER:HB2	8	0.2
(1,1899)	1:123:A:ALA:HB3	1:130:A:SER:HB2	8	0.2
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB1	8	0.2
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB2	8	0.2
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB3	8	0.2
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	4	0.2
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	8	0.2
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	2	0.2
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	4	0.2
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	6	0.2
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	9	0.2
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	4	0.2
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	5	0.2
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	6	0.2
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	9	0.2
(1,1806)	1:125:A:LEU:HB3	1:125:A:LEU:HA	7	0.2
(1,1805)	1:125:A:LEU:HA	1:125:A:LEU:HB3	7	0.2
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	1	0.2
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	4	0.2
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	2	0.2
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	9	0.2
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	10	0.2
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	2	0.2
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	9	0.2
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	10	0.2
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	3	0.2
(1,1570)	1:117:A:ASP:HA	1:117:A:ASP:HB3	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1569)	1:117:A:ASP:HB3	1:117:A:ASP:HA	6	0.2
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	1	0.2
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	1	0.2
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	1	0.2
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	1	0.2
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	1	0.2
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	1	0.2
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	1	0.2
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	1	0.2
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	1	0.2
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	1	0.2
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	1	0.2
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	1	0.2
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	1	0.2
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	1	0.2
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	1	0.2
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	1	0.2
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	1	0.2
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	1	0.2
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	9	0.2
(1,1477)	1:110:A:ASP:HA	1:110:A:ASP:HB2	10	0.2
(1,1476)	1:110:A:ASP:HB2	1:110:A:ASP:HA	10	0.2
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD21	2	0.2
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD22	2	0.2
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD23	2	0.2
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD21	2	0.2
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD22	2	0.2
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD23	2	0.2
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD21	2	0.2
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD22	2	0.2
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD23	2	0.2
(1,1301)	1:102:A:VAL:H	1:101:A:SER:H	9	0.2
(1,1300)	1:101:A:SER:H	1:102:A:VAL:H	9	0.2
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	10	0.2
(1,1221)	1:98:A:ASN:HA	1:98:A:ASN:H	3	0.2
(1,1221)	1:98:A:ASN:HA	1:98:A:ASN:H	6	0.2
(1,1220)	1:98:A:ASN:HA	1:98:A:ASN:HB2	6	0.2
(1,1219)	1:98:A:ASN:HB2	1:98:A:ASN:HA	6	0.2
(1,1184)	1:96:A:LYS:HA	1:96:A:LYS:HB2	6	0.2
(1,1183)	1:96:A:LYS:HB2	1:96:A:LYS:HA	6	0.2
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	9	0.2
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	7	0.2
(1,1096)	1:92:A:TRP:HZ2	1:77:A:TRP:HZ2	10	0.2
(1,1095)	1:91:A:ASP:HB2	1:91:A:ASP:H	1	0.2
(1,1063)	1:87:A:ARG:HA	1:89:A:ASP:H	1	0.2
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	1	0.2
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	3	0.2
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	4	0.2
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	5	0.2
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	6	0.2
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	9	0.2
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	10	0.2
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	6	0.2
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	6	0.2
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	6	0.2
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	6	0.2
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	6	0.2
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	6	0.2
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	6	0.2
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	6	0.2
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	6	0.2
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	6	0.2
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	6	0.2
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	6	0.2
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG11	6	0.2
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG12	6	0.2
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG13	6	0.2
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG11	6	0.2
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG12	6	0.2
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG13	6	0.2
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG11	6	0.2
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG12	6	0.2
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG13	6	0.2
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG21	6	0.2
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG22	6	0.2
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG23	6	0.2
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG21	6	0.2
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG22	6	0.2
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG23	6	0.2
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG21	6	0.2
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG22	6	0.2
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG23	6	0.2
(1,923)	1:81:A:TYR:HB3	1:81:A:TYR:HA	7	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,922)	1:81:A:TYR:HA	1:81:A:TYR:HB3	7	0.2
(1,911)	1:80:A:ALA:HA	1:80:A:ALA:H	5	0.2
(1,819)	1:74:A:TYR:HA	1:74:A:TYR:HB2	3	0.2
(1,818)	1:74:A:TYR:HB2	1:74:A:TYR:HA	3	0.2
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	9	0.2
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	3	0.2
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	1	0.2
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	3	0.2
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	7	0.2
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	9	0.2
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	3	0.2
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	2	0.2
(1,611)	1:65:A:GLU:HB2	1:65:A:GLU:HA	4	0.2
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	2	0.2
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	4	0.2
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	9	0.2
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	10	0.2
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	1	0.2
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	6	0.2
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	6	0.2
(1,492)	1:61:A:GLN:HA	1:61:A:GLN:HB3	8	0.2
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	6	0.2
(1,491)	1:61:A:GLN:HB3	1:61:A:GLN:HA	8	0.2
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	3	0.2
(1,478)	1:58:A:LYS:HD2	1:61:A:GLN:HG3	7	0.2
(1,477)	1:61:A:GLN:HG3	1:58:A:LYS:HD2	7	0.2
(1,320)	1:55:A:TYR:HA	1:56:A:VAL:H	4	0.2
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	1	0.2
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	2	0.2
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	8	0.2
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	8	0.2
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	8	0.2
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	2	0.2
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	5	0.2
(1,225)	1:52:A:SER:HA	1:53:A:HIS:H	9	0.2
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	2	0.2
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	4	0.2
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	5	0.2
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	7	0.2
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	3	0.2
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB1	9	0.2
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB2	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB3	9	0.2
(1,72)	1:48:A:ALA:HB1	1:44:A:GLN:HG2	9	0.2
(1,72)	1:48:A:ALA:HB2	1:44:A:GLN:HG2	9	0.2
(1,72)	1:48:A:ALA:HB3	1:44:A:GLN:HG2	9	0.2
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	9	0.2
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	1	0.2
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	1	0.2
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	1	0.2
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	1	0.2
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	1	0.2
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	1	0.2
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	4	0.19
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	9	0.19
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	2	0.19
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	3	0.19
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	4	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	6	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	6	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	6	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	6	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	6	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	6	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	6	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	6	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	6	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	8	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	8	0.19
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	8	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	8	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	8	0.19
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	8	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	8	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	8	0.19
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	8	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	6	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	6	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	6	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	6	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	6	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	6	0.19
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	6	0.19
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	6	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	8	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	8	0.19
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	8	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	8	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	8	0.19
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	8	0.19
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	8	0.19
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	8	0.19
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	8	0.19
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	2	0.19
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	4	0.19
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	7	0.19
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	8	0.19
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	10	0.19
(1,4586)	1:228:A:LYS:HB2	1:228:A:LYS:HA	6	0.19
(1,4585)	1:228:A:LYS:HA	1:228:A:LYS:HB2	6	0.19
(1,4520)	1:222:A:GLY:HA3	1:223:A:GLY:H	3	0.19
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	2	0.19
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB1	6	0.19
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB2	6	0.19
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB3	6	0.19
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB1	6	0.19
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB2	6	0.19
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB3	6	0.19
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB1	6	0.19
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB2	6	0.19
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB3	6	0.19
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB1	6	0.19
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB2	6	0.19
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB3	6	0.19
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB1	6	0.19
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB2	6	0.19
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB3	6	0.19
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB1	6	0.19
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB2	6	0.19
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB3	6	0.19
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	9	0.19
(1,4403)	1:217:A:LEU:HD11	1:210:A:GLY:H	9	0.19
(1,4403)	1:217:A:LEU:HD12	1:210:A:GLY:H	9	0.19
(1,4403)	1:217:A:LEU:HD13	1:210:A:GLY:H	9	0.19
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	2	0.19
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	8	0.19
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	8	0.19
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	8	0.19
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	8	0.19
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	8	0.19
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	8	0.19
(1,4382)	1:205:A:LEU:HD11	1:217:A:LEU:HG	10	0.19
(1,4382)	1:205:A:LEU:HD12	1:217:A:LEU:HG	10	0.19
(1,4382)	1:205:A:LEU:HD13	1:217:A:LEU:HG	10	0.19
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD11	10	0.19
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD12	10	0.19
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD13	10	0.19
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	4	0.19
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	4	0.19
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	2	0.19
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	3	0.19
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	4	0.19
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	5	0.19
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	3	0.19
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	4	0.19
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	5	0.19
(1,4182)	1:211:A:ASP:HA	1:211:A:ASP:HB3	2	0.19
(1,4181)	1:211:A:ASP:HB3	1:211:A:ASP:HA	2	0.19
(1,4129)	1:208:A:LEU:HB2	1:208:A:LEU:HA	6	0.19
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	5	0.19
(1,4045)	1:207:A:LYS:H	1:206:A:ALA:H	9	0.19
(1,4044)	1:206:A:ALA:H	1:207:A:LYS:H	9	0.19
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	1	0.19
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	6	0.19
(1,3930)	1:200:A:LEU:HA	1:204:A:LYS:H	7	0.19
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	5	0.19
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	8	0.19
(1,3740)	1:197:A:VAL:HG11	1:170:A:ALA:H	10	0.19
(1,3740)	1:197:A:VAL:HG12	1:170:A:ALA:H	10	0.19
(1,3740)	1:197:A:VAL:HG13	1:170:A:ALA:H	10	0.19
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	5	0.19
(1,3635)	1:195:A:VAL:HB	1:195:A:VAL:H	5	0.19
(1,3592)	1:195:A:VAL:HG11	1:149:A:ALA:HA	7	0.19
(1,3592)	1:195:A:VAL:HG12	1:149:A:ALA:HA	7	0.19
(1,3592)	1:195:A:VAL:HG13	1:149:A:ALA:HA	7	0.19
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG11	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG12	7	0.19
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG13	7	0.19
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	5	0.19
(1,3549)	1:194:A:MET:HE1	1:177:A:ILE:H	7	0.19
(1,3549)	1:194:A:MET:HE2	1:177:A:ILE:H	7	0.19
(1,3549)	1:194:A:MET:HE3	1:177:A:ILE:H	7	0.19
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG11	9	0.19
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG12	9	0.19
(1,3483)	1:174:A:ALA:HB1	1:193:A:VAL:HG13	9	0.19
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG11	9	0.19
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG12	9	0.19
(1,3483)	1:174:A:ALA:HB2	1:193:A:VAL:HG13	9	0.19
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG11	9	0.19
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG12	9	0.19
(1,3483)	1:174:A:ALA:HB3	1:193:A:VAL:HG13	9	0.19
(1,3461)	1:145:A:ILE:HD11	1:193:A:VAL:HG11	9	0.19
(1,3461)	1:145:A:ILE:HD11	1:193:A:VAL:HG12	9	0.19
(1,3461)	1:145:A:ILE:HD11	1:193:A:VAL:HG13	9	0.19
(1,3461)	1:145:A:ILE:HD12	1:193:A:VAL:HG11	9	0.19
(1,3461)	1:145:A:ILE:HD12	1:193:A:VAL:HG12	9	0.19
(1,3461)	1:145:A:ILE:HD12	1:193:A:VAL:HG13	9	0.19
(1,3461)	1:145:A:ILE:HD13	1:193:A:VAL:HG11	9	0.19
(1,3461)	1:145:A:ILE:HD13	1:193:A:VAL:HG12	9	0.19
(1,3461)	1:145:A:ILE:HD13	1:193:A:VAL:HG13	9	0.19
(1,3460)	1:193:A:VAL:HG11	1:145:A:ILE:HD11	9	0.19
(1,3460)	1:193:A:VAL:HG11	1:145:A:ILE:HD12	9	0.19
(1,3460)	1:193:A:VAL:HG11	1:145:A:ILE:HD13	9	0.19
(1,3460)	1:193:A:VAL:HG12	1:145:A:ILE:HD11	9	0.19
(1,3460)	1:193:A:VAL:HG12	1:145:A:ILE:HD12	9	0.19
(1,3460)	1:193:A:VAL:HG12	1:145:A:ILE:HD13	9	0.19
(1,3460)	1:193:A:VAL:HG13	1:145:A:ILE:HD11	9	0.19
(1,3460)	1:193:A:VAL:HG13	1:145:A:ILE:HD12	9	0.19
(1,3460)	1:193:A:VAL:HG13	1:145:A:ILE:HD13	9	0.19
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	3	0.19
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	1	0.19
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	1	0.19
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	1	0.19
(1,3226)	1:183:A:HIS:HD2	1:183:A:HIS:H	10	0.19
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG21	1	0.19
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG22	1	0.19
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG23	1	0.19
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	3	0.19
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	5	0.19
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	1	0.19
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	3	0.19
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	7	0.19
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	8	0.19
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	9	0.19
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	9	0.19
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	4	0.19
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	4	0.19
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	4	0.19
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	4	0.19
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	4	0.19
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	4	0.19
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	4	0.19
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	4	0.19
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	4	0.19
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	4	0.19
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	4	0.19
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	4	0.19
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	2	0.19
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	7	0.19
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	2	0.19
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	3	0.19
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	4	0.19
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	7	0.19
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	10	0.19
(1,2966)	1:173:A:VAL:HG21	1:69:A:GLN:H	6	0.19
(1,2966)	1:173:A:VAL:HG22	1:69:A:GLN:H	6	0.19
(1,2966)	1:173:A:VAL:HG23	1:69:A:GLN:H	6	0.19
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	2	0.19
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	4	0.19
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	5	0.19
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	7	0.19
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	8	0.19
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	9	0.19
(1,2951)	1:172:A:LEU:HA	1:172:A:LEU:H	10	0.19
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	5	0.19
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	10	0.19
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	5	0.19
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	10	0.19
(1,2921)	1:162:A:TYR:HA	1:172:A:LEU:H	4	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2764)	1:165:A:PHE:H	1:167:A:GLY:H	4	0.19
(1,2763)	1:167:A:GLY:H	1:165:A:PHE:H	4	0.19
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	4	0.19
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	9	0.19
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	10	0.19
(1,2647)	1:161:A:ARG:HA	1:161:A:ARG:HB3	5	0.19
(1,2646)	1:161:A:ARG:HB3	1:161:A:ARG:HA	5	0.19
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD11	10	0.19
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD12	10	0.19
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD13	10	0.19
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	8	0.19
(1,2544)	1:156:A:GLU:H	1:157:A:ALA:H	6	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	1	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	2	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	3	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	5	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	7	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	8	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	9	0.19
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	10	0.19
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	9	0.19
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	9	0.19
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	9	0.19
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	1	0.19
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	2	0.19
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	1	0.19
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	2	0.19
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	4	0.19
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	9	0.19
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	4	0.19
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	9	0.19
(1,2314)	1:147:A:ARG:HB2	1:147:A:ARG:HA	1	0.19
(1,2313)	1:147:A:ARG:HA	1:147:A:ARG:HB2	1	0.19
(1,2287)	1:146:A:LEU:HA	1:146:A:LEU:HB2	3	0.19
(1,2286)	1:146:A:LEU:HB2	1:146:A:LEU:HA	3	0.19
(1,2284)	1:146:A:LEU:HB3	1:146:A:LEU:HA	8	0.19
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	1	0.19
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	2	0.19
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	3	0.19
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	5	0.19
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	10	0.19
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	8	0.19
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	8	0.19
(1,1961)	1:132:A:ARG:HA	1:132:A:ARG:H	3	0.19
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	9	0.19
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	5	0.19
(1,1865)	1:129:A:LEU:HD21	1:94:A:PHE:H	5	0.19
(1,1865)	1:129:A:LEU:HD22	1:94:A:PHE:H	5	0.19
(1,1865)	1:129:A:LEU:HD23	1:94:A:PHE:H	5	0.19
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	3	0.19
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	5	0.19
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	10	0.19
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	1	0.19
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	2	0.19
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	8	0.19
(1,1776)	1:124:A:MET:HB3	1:124:A:MET:H	3	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE1	3	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE2	3	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE3	3	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE1	10	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE2	10	0.19
(1,1743)	1:101:A:SER:HB2	1:124:A:MET:HE3	10	0.19
(1,1742)	1:124:A:MET:HE1	1:101:A:SER:HB2	3	0.19
(1,1742)	1:124:A:MET:HE2	1:101:A:SER:HB2	3	0.19
(1,1742)	1:124:A:MET:HE3	1:101:A:SER:HB2	3	0.19
(1,1742)	1:124:A:MET:HE1	1:101:A:SER:HB2	10	0.19
(1,1742)	1:124:A:MET:HE2	1:101:A:SER:HB2	10	0.19
(1,1742)	1:124:A:MET:HE3	1:101:A:SER:HB2	10	0.19
(1,1674)	1:112:A:VAL:HG11	1:122:A:TYR:HE1	4	0.19
(1,1674)	1:112:A:VAL:HG11	1:122:A:TYR:HE2	4	0.19
(1,1674)	1:112:A:VAL:HG12	1:122:A:TYR:HE1	4	0.19
(1,1674)	1:112:A:VAL:HG12	1:122:A:TYR:HE2	4	0.19
(1,1674)	1:112:A:VAL:HG13	1:122:A:TYR:HE1	4	0.19
(1,1674)	1:112:A:VAL:HG13	1:122:A:TYR:HE2	4	0.19
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG11	4	0.19
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG12	4	0.19
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG13	4	0.19
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG11	4	0.19
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG12	4	0.19
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG13	4	0.19
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	5	0.19
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	6	0.19
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	7	0.19
(1,1509)	1:112:A:VAL:HA	1:112:A:VAL:HB	9	0.19
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	8	0.19
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	10	0.19
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	1	0.19
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	1	0.19
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	1	0.19
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	5	0.19
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	4	0.19
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	5	0.19
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	7	0.19
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	9	0.19
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	10	0.19
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	2	0.19
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	3	0.19
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	6	0.19
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	7	0.19
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	10	0.19
(1,1301)	1:102:A:VAL:H	1:101:A:SER:H	7	0.19
(1,1300)	1:101:A:SER:H	1:102:A:VAL:H	7	0.19
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	1	0.19
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	2	0.19
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	6	0.19
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	8	0.19
(1,1199)	1:97:A:ASN:HA	1:97:A:ASN:HB3	2	0.19
(1,1198)	1:97:A:ASN:HB3	1:97:A:ASN:HA	2	0.19
(1,1188)	1:96:A:LYS:HE3	1:96:A:LYS:H	3	0.19
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	1	0.19
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	8	0.19
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	7	0.19
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	10	0.19
(1,1159)	1:95:A:THR:HG21	1:91:A:ASP:HB2	8	0.19
(1,1159)	1:95:A:THR:HG22	1:91:A:ASP:HB2	8	0.19
(1,1159)	1:95:A:THR:HG23	1:91:A:ASP:HB2	8	0.19
(1,1158)	1:91:A:ASP:HB2	1:95:A:THR:HG21	8	0.19
(1,1158)	1:91:A:ASP:HB2	1:95:A:THR:HG22	8	0.19
(1,1158)	1:91:A:ASP:HB2	1:95:A:THR:HG23	8	0.19
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	2	0.19
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	3	0.19
(1,1095)	1:91:A:ASP:HB2	1:91:A:ASP:H	4	0.19
(1,1059)	1:89:A:ASP:HB3	1:83:A:TYR:HE1	2	0.19
(1,1059)	1:89:A:ASP:HB3	1:83:A:TYR:HE2	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1058)	1:83:A:TYR:HE1	1:89:A:ASP:HB3	2	0.19
(1,1058)	1:83:A:TYR:HE2	1:89:A:ASP:HB3	2	0.19
(1,1018)	1:86:A:ASN:HB3	1:86:A:ASN:HA	7	0.19
(1,1017)	1:86:A:ASN:HA	1:86:A:ASN:HB3	7	0.19
(1,911)	1:80:A:ALA:HA	1:80:A:ALA:H	3	0.19
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	10	0.19
(1,897)	1:79:A:ASP:HB3	1:79:A:ASP:H	3	0.19
(1,897)	1:79:A:ASP:HB3	1:79:A:ASP:H	6	0.19
(1,897)	1:79:A:ASP:HB3	1:79:A:ASP:H	10	0.19
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	6	0.19
(1,827)	1:72:A:THR:HA	1:75:A:SER:H	6	0.19
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	1	0.19
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	2	0.19
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	7	0.19
(1,779)	1:73:A:THR:H	1:72:A:THR:H	4	0.19
(1,778)	1:72:A:THR:H	1:73:A:THR:H	4	0.19
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	2	0.19
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	8	0.19
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	2	0.19
(1,758)	1:71:A:SER:H	1:72:A:THR:H	4	0.19
(1,757)	1:72:A:THR:H	1:71:A:SER:H	4	0.19
(1,741)	1:71:A:SER:HA	1:71:A:SER:HB2	1	0.19
(1,741)	1:71:A:SER:HA	1:71:A:SER:HB2	7	0.19
(1,740)	1:71:A:SER:HB2	1:71:A:SER:HA	1	0.19
(1,740)	1:71:A:SER:HB2	1:71:A:SER:HA	7	0.19
(1,727)	1:70:A:PHE:HA	1:70:A:PHE:H	6	0.19
(1,702)	1:69:A:GLN:HA	1:69:A:GLN:HB2	10	0.19
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	3	0.19
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	10	0.19
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	3	0.19
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	10	0.19
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	1	0.19
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	4	0.19
(1,611)	1:65:A:GLU:HB2	1:65:A:GLU:HA	10	0.19
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	4	0.19
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	8	0.19
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	8	0.19
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	1	0.19
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	6	0.19
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	7	0.19
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	7	0.19
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	2	0.19
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	8	0.19
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	9	0.19
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	4	0.19
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	1	0.19
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	1	0.19
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	1	0.19
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	1	0.19
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	5	0.19
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	3	0.19
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	4	0.19
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	5	0.19
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	6	0.19
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	7	0.19
(1,296)	1:54:A:PHE:HA	1:55:A:TYR:H	10	0.19
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	7	0.19
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	10	0.19
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	8	0.19
(1,202)	1:51:A:GLN:HA	1:52:A:SER:H	8	0.19
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	4	0.19
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	4	0.19
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	4	0.19
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	10	0.19
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	10	0.19
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	10	0.19
(1,99)	1:49:A:ILE:HD11	1:46:A:ASP:HB3	1	0.19
(1,99)	1:49:A:ILE:HD12	1:46:A:ASP:HB3	1	0.19
(1,99)	1:49:A:ILE:HD13	1:46:A:ASP:HB3	1	0.19
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	8	0.19
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	1	0.19
(1,56)	1:45:A:ASP:HB2	1:47:A:ILE:H	3	0.19
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	3	0.19
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	3	0.19
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	3	0.19
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	3	0.19
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	3	0.19
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	3	0.19
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	2	0.19
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	5	0.19
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	8	0.19
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	3	0.19
(2,20)	1:165:A:PHE:N	1:168:A:ALA:O	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,1)	1:111:A:GLY:H	1:197:A:VAL:O	5	0.18
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	7	0.18
(1,5180)	1:244:A:SER:HA	1:242:A:TRP:HE1	9	0.18
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	3	0.18
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	3	0.18
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	3	0.18
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	7	0.18
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	7	0.18
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	7	0.18
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	9	0.18
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	1	0.18
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	5	0.18
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	6	0.18
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	7	0.18
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	8	0.18
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	10	0.18
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	9	0.18
(1,4600)	1:229:A:GLU:HA	1:228:A:LYS:H	9	0.18
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	8	0.18
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	10	0.18
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	3	0.18
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	4	0.18
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	3	0.18
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	7	0.18
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	10	0.18
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	5	0.18
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	8	0.18
(1,4396)	1:208:A:LEU:HD21	1:217:A:LEU:HG	4	0.18
(1,4396)	1:208:A:LEU:HD22	1:217:A:LEU:HG	4	0.18
(1,4396)	1:208:A:LEU:HD23	1:217:A:LEU:HG	4	0.18
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD21	4	0.18
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD22	4	0.18
(1,4395)	1:217:A:LEU:HG	1:208:A:LEU:HD23	4	0.18
(1,4382)	1:205:A:LEU:HD11	1:217:A:LEU:HG	1	0.18
(1,4382)	1:205:A:LEU:HD12	1:217:A:LEU:HG	1	0.18
(1,4382)	1:205:A:LEU:HD13	1:217:A:LEU:HG	1	0.18
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD11	1	0.18
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD12	1	0.18
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD13	1	0.18
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	1	0.18
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	1	0.18
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	3	0.18
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	4	0.18
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	10	0.18
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE1	5	0.18
(1,4201)	1:59:A:ALA:HA	1:212:A:TYR:HE2	5	0.18
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	1	0.18
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	1	0.18
(1,4167)	1:208:A:LEU:HD21	1:211:A:ASP:HB3	9	0.18
(1,4167)	1:208:A:LEU:HD22	1:211:A:ASP:HB3	9	0.18
(1,4167)	1:208:A:LEU:HD23	1:211:A:ASP:HB3	9	0.18
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD21	9	0.18
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD22	9	0.18
(1,4166)	1:211:A:ASP:HB3	1:208:A:LEU:HD23	9	0.18
(1,4165)	1:207:A:LYS:HG3	1:211:A:ASP:H	4	0.18
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD21	3	0.18
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD22	3	0.18
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD23	3	0.18
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD21	3	0.18
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD22	3	0.18
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD23	3	0.18
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD21	3	0.18
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD22	3	0.18
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD23	3	0.18
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	8	0.18
(1,3974)	1:205:A:LEU:HD21	1:202:A:PRO:HD3	5	0.18
(1,3974)	1:205:A:LEU:HD22	1:202:A:PRO:HD3	5	0.18
(1,3974)	1:205:A:LEU:HD23	1:202:A:PRO:HD3	5	0.18
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD21	5	0.18
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD22	5	0.18
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD23	5	0.18
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	4	0.18
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	5	0.18
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	10	0.18
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD11	3	0.18
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD12	3	0.18
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD13	3	0.18
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD11	4	0.18
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD12	4	0.18
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD13	4	0.18
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG11	2	0.18
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG12	2	0.18
(1,3748)	1:172:A:LEU:HG	1:197:A:VAL:HG13	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3685)	1:174:A:ALA:HA	1:196:A:PHE:H	8	0.18
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	9	0.18
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	10	0.18
(1,3539)	1:176:A:ALA:HA	1:194:A:MET:H	1	0.18
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	9	0.18
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	1	0.18
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	1	0.18
(1,3346)	1:188:A:LEU:HA	1:188:A:LEU:HB3	6	0.18
(1,3345)	1:188:A:LEU:HB3	1:188:A:LEU:HA	6	0.18
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG21	9	0.18
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG22	9	0.18
(1,3272)	1:179:A:PRO:HD2	1:186:A:ILE:HG23	9	0.18
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	9	0.18
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	9	0.18
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	2	0.18
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	4	0.18
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	5	0.18
(1,3135)	1:178:A:LYS:HA	1:178:A:LYS:H	6	0.18
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	3	0.18
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	2	0.18
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	3	0.18
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	4	0.18
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	7	0.18
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	10	0.18
(1,3042)	1:149:A:ALA:HB1	1:175:A:SER:HA	4	0.18
(1,3042)	1:149:A:ALA:HB2	1:175:A:SER:HA	4	0.18
(1,3042)	1:149:A:ALA:HB3	1:175:A:SER:HA	4	0.18
(1,3041)	1:175:A:SER:HA	1:149:A:ALA:HB1	4	0.18
(1,3041)	1:175:A:SER:HA	1:149:A:ALA:HB2	4	0.18
(1,3041)	1:175:A:SER:HA	1:149:A:ALA:HB3	4	0.18
(1,3039)	1:174:A:ALA:HA	1:174:A:ALA:H	8	0.18
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	3	0.18
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	9	0.18
(1,2984)	1:173:A:VAL:HA	1:161:A:ARG:H	2	0.18
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	6	0.18
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	10	0.18
(1,2641)	1:159:A:ILE:HD11	1:161:A:ARG:H	4	0.18
(1,2641)	1:159:A:ILE:HD12	1:161:A:ARG:H	4	0.18
(1,2641)	1:159:A:ILE:HD13	1:161:A:ARG:H	4	0.18
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	3	0.18
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	7	0.18
(1,2519)	1:156:A:GLU:HA	1:156:A:GLU:HB3	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2519)	1:156:A:GLU:HA	1:156:A:GLU:HB3	8	0.18
(1,2518)	1:156:A:GLU:HB3	1:156:A:GLU:HA	7	0.18
(1,2518)	1:156:A:GLU:HB3	1:156:A:GLU:HA	8	0.18
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	6	0.18
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	5	0.18
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	5	0.18
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	5	0.18
(1,2443)	1:153:A:ALA:H	1:152:A:ALA:H	6	0.18
(1,2442)	1:152:A:ALA:H	1:153:A:ALA:H	6	0.18
(1,2409)	1:151:A:ARG:HA	1:151:A:ARG:H	6	0.18
(1,2404)	1:150:A:ARG:H	1:151:A:ARG:H	6	0.18
(1,2403)	1:151:A:ARG:H	1:150:A:ARG:H	6	0.18
(1,2387)	1:150:A:ARG:HD3	1:150:A:ARG:H	3	0.18
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	3	0.18
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	9	0.18
(1,2369)	1:147:A:ARG:HA	1:150:A:ARG:H	4	0.18
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD11	7	0.18
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD12	7	0.18
(1,2199)	1:138:A:LEU:HD21	1:145:A:ILE:HD13	7	0.18
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD11	7	0.18
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD12	7	0.18
(1,2199)	1:138:A:LEU:HD22	1:145:A:ILE:HD13	7	0.18
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD11	7	0.18
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD12	7	0.18
(1,2199)	1:138:A:LEU:HD23	1:145:A:ILE:HD13	7	0.18
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG21	3	0.18
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG22	3	0.18
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG23	3	0.18
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG21	3	0.18
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG22	3	0.18
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG23	3	0.18
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG21	3	0.18
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG22	3	0.18
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG23	3	0.18
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD11	3	0.18
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD12	3	0.18
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD13	3	0.18
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD11	3	0.18
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD12	3	0.18
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD13	3	0.18
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD11	3	0.18
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD12	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD13	3	0.18
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	3	0.18
(1,2100)	1:139:A:ASN:HB3	1:139:A:ASN:HA	9	0.18
(1,2099)	1:139:A:ASN:HA	1:139:A:ASN:HB3	9	0.18
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	5	0.18
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	5	0.18
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	9	0.18
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	9	0.18
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	3	0.18
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	1	0.18
(1,1865)	1:129:A:LEU:HD21	1:94:A:PHE:H	2	0.18
(1,1865)	1:129:A:LEU:HD22	1:94:A:PHE:H	2	0.18
(1,1865)	1:129:A:LEU:HD23	1:94:A:PHE:H	2	0.18
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	1	0.18
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	7	0.18
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	7	0.18
(1,1783)	1:125:A:LEU:HD11	1:111:A:GLY:H	4	0.18
(1,1783)	1:125:A:LEU:HD12	1:111:A:GLY:H	4	0.18
(1,1783)	1:125:A:LEU:HD13	1:111:A:GLY:H	4	0.18
(1,1776)	1:124:A:MET:HB3	1:124:A:MET:H	10	0.18
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	7	0.18
(1,1714)	1:114:A:VAL:HG21	1:123:A:ALA:H	2	0.18
(1,1714)	1:114:A:VAL:HG22	1:123:A:ALA:H	2	0.18
(1,1714)	1:114:A:VAL:HG23	1:123:A:ALA:H	2	0.18
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	6	0.18
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	6	0.18
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	1	0.18
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	3	0.18
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	7	0.18
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	1	0.18
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	8	0.18
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	9	0.18
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	7	0.18
(1,1475)	1:110:A:ASP:HA	1:110:A:ASP:HB3	6	0.18
(1,1474)	1:110:A:ASP:HB3	1:110:A:ASP:HA	6	0.18
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	1	0.18
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	8	0.18
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	4	0.18
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	5	0.18
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	8	0.18
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	9	0.18
(1,1292)	1:102:A:VAL:HG11	1:98:A:ASN:HA	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1292)	1:102:A:VAL:HG12	1:98:A:ASN:HA	5	0.18
(1,1292)	1:102:A:VAL:HG13	1:98:A:ASN:HA	5	0.18
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG11	5	0.18
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG12	5	0.18
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG13	5	0.18
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	3	0.18
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	4	0.18
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	7	0.18
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	5	0.18
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	7	0.18
(1,1246)	1:99:A:LEU:HD11	1:93:A:ALA:HA	7	0.18
(1,1246)	1:99:A:LEU:HD12	1:93:A:ALA:HA	7	0.18
(1,1246)	1:99:A:LEU:HD13	1:93:A:ALA:HA	7	0.18
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD11	7	0.18
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD12	7	0.18
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD13	7	0.18
(1,1223)	1:98:A:ASN:HB2	1:98:A:ASN:H	7	0.18
(1,1218)	1:98:A:ASN:HA	1:98:A:ASN:HB3	4	0.18
(1,1217)	1:98:A:ASN:HB3	1:98:A:ASN:HA	4	0.18
(1,1199)	1:97:A:ASN:HA	1:97:A:ASN:HB3	4	0.18
(1,1198)	1:97:A:ASN:HB3	1:97:A:ASN:HA	4	0.18
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	5	0.18
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	9	0.18
(1,1184)	1:96:A:LYS:HA	1:96:A:LYS:HB2	1	0.18
(1,1183)	1:96:A:LYS:HB2	1:96:A:LYS:HA	1	0.18
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	4	0.18
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	5	0.18
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	6	0.18
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	10	0.18
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	4	0.18
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	9	0.18
(1,1108)	1:91:A:ASP:HA	1:92:A:TRP:H	1	0.18
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	7	0.18
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	2	0.18
(1,1001)	1:84:A:LEU:HA	1:84:A:LEU:H	7	0.18
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	3	0.18
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE1	10	0.18
(1,969)	1:82:A:VAL:HG11	1:83:A:TYR:HE2	10	0.18
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE1	10	0.18
(1,969)	1:82:A:VAL:HG12	1:83:A:TYR:HE2	10	0.18
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE1	10	0.18
(1,969)	1:82:A:VAL:HG13	1:83:A:TYR:HE2	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG11	10	0.18
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG12	10	0.18
(1,968)	1:83:A:TYR:HE1	1:82:A:VAL:HG13	10	0.18
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG11	10	0.18
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG12	10	0.18
(1,968)	1:83:A:TYR:HE2	1:82:A:VAL:HG13	10	0.18
(1,952)	1:82:A:VAL:H	1:81:A:TYR:H	5	0.18
(1,951)	1:81:A:TYR:H	1:82:A:VAL:H	5	0.18
(1,923)	1:81:A:TYR:HB3	1:81:A:TYR:HA	2	0.18
(1,923)	1:81:A:TYR:HB3	1:81:A:TYR:HA	8	0.18
(1,922)	1:81:A:TYR:HA	1:81:A:TYR:HB3	2	0.18
(1,922)	1:81:A:TYR:HA	1:81:A:TYR:HB3	8	0.18
(1,897)	1:79:A:ASP:HB3	1:79:A:ASP:H	7	0.18
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	1	0.18
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	4	0.18
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	5	0.18
(1,857)	1:76:A:PHE:HA	1:76:A:PHE:H	2	0.18
(1,857)	1:76:A:PHE:HA	1:76:A:PHE:H	4	0.18
(1,857)	1:76:A:PHE:HA	1:76:A:PHE:H	6	0.18
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	5	0.18
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE1	5	0.18
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE2	5	0.18
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	5	0.18
(1,758)	1:71:A:SER:H	1:72:A:THR:H	1	0.18
(1,757)	1:72:A:THR:H	1:71:A:SER:H	1	0.18
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	1	0.18
(1,700)	1:69:A:GLN:HA	1:69:A:GLN:HB3	7	0.18
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	8	0.18
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	8	0.18
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	5	0.18
(1,633)	1:66:A:ASN:HA	1:66:A:ASN:H	3	0.18
(1,610)	1:65:A:GLU:HA	1:65:A:GLU:HB3	3	0.18
(1,609)	1:65:A:GLU:HB3	1:65:A:GLU:HA	3	0.18
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	2	0.18
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	6	0.18
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	8	0.18
(1,570)	1:64:A:ARG:HD2	1:61:A:GLN:H	2	0.18
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	6	0.18
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	6	0.18
(1,520)	1:61:A:GLN:HA	1:62:A:ASN:H	8	0.18
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	1	0.18
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	6	0.18
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	7	0.18
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	10	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	1	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	2	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	3	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	5	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	6	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	7	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	8	0.18
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	10	0.18
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	9	0.18
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	3	0.18
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	6	0.18
(1,251)	1:54:A:PHE:HB2	1:51:A:GLN:HB2	5	0.18
(1,250)	1:51:A:GLN:HB2	1:54:A:PHE:HB2	5	0.18
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	2	0.18
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	4	0.18
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	5	0.18
(1,122)	1:49:A:ILE:HA	1:49:A:ILE:H	2	0.18
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	1	0.18
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	8	0.18
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	1	0.18
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	5	0.18
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	6	0.18
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	7	0.18
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	10	0.18
(1,64)	1:47:A:ILE:HA	1:47:A:ILE:HB	5	0.18
(1,63)	1:47:A:ILE:HB	1:47:A:ILE:HA	5	0.18
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	4	0.18
(2,20)	1:165:A:PHE:N	1:168:A:ALA:O	6	0.17
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	4	0.17
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	5	0.17
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	8	0.17
(1,5100)	1:240:A:LEU:HD21	1:242:A:TRP:HZ3	7	0.17
(1,5100)	1:240:A:LEU:HD22	1:242:A:TRP:HZ3	7	0.17
(1,5100)	1:240:A:LEU:HD23	1:242:A:TRP:HZ3	7	0.17
(1,5094)	1:231:A:LEU:H	1:242:A:TRP:H	10	0.17
(1,5093)	1:242:A:TRP:H	1:231:A:LEU:H	10	0.17
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	2	0.17
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	7	0.17
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	7	0.17
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	7	0.17
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	7	0.17
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	7	0.17
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	3	0.17
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	3	0.17
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	3	0.17
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	3	0.17
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	3	0.17
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	3	0.17
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	3	0.17
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	3	0.17
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	3	0.17
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	3	0.17
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	3	0.17
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	3	0.17
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	3	0.17
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	3	0.17
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	3	0.17
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	3	0.17
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	3	0.17
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	3	0.17
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	3	0.17
(1,4600)	1:229:A:GLU:HA	1:228:A:LYS:H	1	0.17
(1,4596)	1:229:A:GLU:HA	1:225:A:ALA:HB1	6	0.17
(1,4596)	1:229:A:GLU:HA	1:225:A:ALA:HB2	6	0.17
(1,4596)	1:229:A:GLU:HA	1:225:A:ALA:HB3	6	0.17
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	3	0.17
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	1	0.17
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	4	0.17
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	9	0.17
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	10	0.17
(1,4476)	1:220:A:LEU:HD11	1:218:A:HIS:HD2	8	0.17
(1,4476)	1:220:A:LEU:HD12	1:218:A:HIS:HD2	8	0.17
(1,4476)	1:220:A:LEU:HD13	1:218:A:HIS:HD2	8	0.17
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD11	8	0.17
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD12	8	0.17
(1,4475)	1:218:A:HIS:HD2	1:220:A:LEU:HD13	8	0.17
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	2	0.17
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	4	0.17
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	7	0.17
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	1	0.17
(1,4304)	1:209:A:GLY:H	1:214:A:ILE:H	6	0.17
(1,4276)	1:214:A:ILE:HG12	1:55:A:TYR:HE1	2	0.17
(1,4276)	1:214:A:ILE:HG12	1:55:A:TYR:HE2	2	0.17
(1,4206)	1:207:A:LYS:HE3	1:212:A:TYR:HD1	2	0.17
(1,4206)	1:207:A:LYS:HE3	1:212:A:TYR:HD2	2	0.17
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	5	0.17
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	5	0.17
(1,4169)	1:208:A:LEU:HD21	1:211:A:ASP:HB2	10	0.17
(1,4169)	1:208:A:LEU:HD22	1:211:A:ASP:HB2	10	0.17
(1,4169)	1:208:A:LEU:HD23	1:211:A:ASP:HB2	10	0.17
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD21	10	0.17
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD22	10	0.17
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD23	10	0.17
(1,4084)	1:208:A:LEU:HD11	1:63:A:ARG:H	9	0.17
(1,4084)	1:208:A:LEU:HD12	1:63:A:ARG:H	9	0.17
(1,4084)	1:208:A:LEU:HD13	1:63:A:ARG:H	9	0.17
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	6	0.17
(1,4024)	1:204:A:LYS:HB3	1:207:A:LYS:HD2	6	0.17
(1,4023)	1:207:A:LYS:HD2	1:204:A:LYS:HB3	6	0.17
(1,3866)	1:200:A:LEU:HD21	1:199:A:ARG:H	4	0.17
(1,3866)	1:200:A:LEU:HD22	1:199:A:ARG:H	4	0.17
(1,3866)	1:200:A:LEU:HD23	1:199:A:ARG:H	4	0.17
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD11	1	0.17
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD12	1	0.17
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD13	1	0.17
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	9	0.17
(1,3677)	1:173:A:VAL:HG21	1:196:A:PHE:HB3	4	0.17
(1,3677)	1:173:A:VAL:HG22	1:196:A:PHE:HB3	4	0.17
(1,3677)	1:173:A:VAL:HG23	1:196:A:PHE:HB3	4	0.17
(1,3676)	1:196:A:PHE:HB3	1:173:A:VAL:HG21	4	0.17
(1,3676)	1:196:A:PHE:HB3	1:173:A:VAL:HG22	4	0.17
(1,3676)	1:196:A:PHE:HB3	1:173:A:VAL:HG23	4	0.17
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	1	0.17
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	4	0.17
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	6	0.17
(1,3397)	1:191:A:ALA:HB1	1:150:A:ARG:HE	4	0.17
(1,3397)	1:191:A:ALA:HB2	1:150:A:ARG:HE	4	0.17
(1,3397)	1:191:A:ALA:HB3	1:150:A:ARG:HE	4	0.17
(1,3278)	1:186:A:ILE:HG21	1:183:A:HIS:HD2	10	0.17
(1,3278)	1:186:A:ILE:HG22	1:183:A:HIS:HD2	10	0.17
(1,3278)	1:186:A:ILE:HG23	1:183:A:HIS:HD2	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG21	10	0.17
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG22	10	0.17
(1,3277)	1:183:A:HIS:HD2	1:186:A:ILE:HG23	10	0.17
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	6	0.17
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	8	0.17
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	10	0.17
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD11	7	0.17
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD12	7	0.17
(1,3095)	1:177:A:ILE:HD11	1:84:A:LEU:HD13	7	0.17
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD11	7	0.17
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD12	7	0.17
(1,3095)	1:177:A:ILE:HD12	1:84:A:LEU:HD13	7	0.17
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD11	7	0.17
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD12	7	0.17
(1,3095)	1:177:A:ILE:HD13	1:84:A:LEU:HD13	7	0.17
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	2	0.17
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	2	0.17
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	2	0.17
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	2	0.17
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	2	0.17
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	2	0.17
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	2	0.17
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	2	0.17
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	2	0.17
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	2	0.17
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	2	0.17
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	2	0.17
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	1	0.17
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	5	0.17
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	6	0.17
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	8	0.17
(1,3051)	1:175:A:SER:HA	1:175:A:SER:H	9	0.17
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	1	0.17
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	6	0.17
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	7	0.17
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	10	0.17
(1,2948)	1:172:A:LEU:HB3	1:172:A:LEU:HA	7	0.17
(1,2947)	1:172:A:LEU:HA	1:172:A:LEU:HB3	7	0.17
(1,2921)	1:162:A:TYR:HA	1:172:A:LEU:H	3	0.17
(1,2916)	1:145:A:ILE:HG21	1:172:A:LEU:HG	2	0.17
(1,2916)	1:145:A:ILE:HG22	1:172:A:LEU:HG	2	0.17
(1,2916)	1:145:A:ILE:HG23	1:172:A:LEU:HG	2	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG21	2	0.17
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG22	2	0.17
(1,2915)	1:172:A:LEU:HG	1:145:A:ILE:HG23	2	0.17
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	1	0.17
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	7	0.17
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	2	0.17
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	3	0.17
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	3	0.17
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	3	0.17
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	1	0.17
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	2	0.17
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	4	0.17
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	9	0.17
(1,2544)	1:156:A:GLU:H	1:157:A:ALA:H	2	0.17
(1,2509)	1:154:A:VAL:HB	1:156:A:GLU:H	2	0.17
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	5	0.17
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	8	0.17
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	5	0.17
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	5	0.17
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	1	0.17
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	4	0.17
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	10	0.17
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	2	0.17
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	2	0.17
(1,2371)	1:147:A:ARG:HG2	1:150:A:ARG:H	4	0.17
(1,2369)	1:147:A:ARG:HA	1:150:A:ARG:H	9	0.17
(1,2364)	1:146:A:LEU:HD21	1:150:A:ARG:HD2	3	0.17
(1,2364)	1:146:A:LEU:HD22	1:150:A:ARG:HD2	3	0.17
(1,2364)	1:146:A:LEU:HD23	1:150:A:ARG:HD2	3	0.17
(1,2363)	1:150:A:ARG:HD2	1:146:A:LEU:HD21	3	0.17
(1,2363)	1:150:A:ARG:HD2	1:146:A:LEU:HD22	3	0.17
(1,2363)	1:150:A:ARG:HD2	1:146:A:LEU:HD23	3	0.17
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	3	0.17
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	5	0.17
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	6	0.17
(1,2287)	1:146:A:LEU:HA	1:146:A:LEU:HB2	10	0.17
(1,2286)	1:146:A:LEU:HB2	1:146:A:LEU:HA	10	0.17
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	9	0.17
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	8	0.17
(1,2041)	1:136:A:ASP:HB2	1:136:A:ASP:HA	2	0.17
(1,2040)	1:136:A:ASP:HA	1:136:A:ASP:HB2	2	0.17
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	7	0.17
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	1	0.17
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	7	0.17
(1,1981)	1:113:A:PHE:HE1	1:134:A:LEU:HA	7	0.17
(1,1981)	1:113:A:PHE:HE2	1:134:A:LEU:HA	7	0.17
(1,1967)	1:133:A:SER:HB2	1:120:A:THR:H	3	0.17
(1,1961)	1:132:A:ARG:HA	1:132:A:ARG:H	4	0.17
(1,1934)	1:125:A:LEU:HD21	1:132:A:ARG:HA	5	0.17
(1,1934)	1:125:A:LEU:HD22	1:132:A:ARG:HA	5	0.17
(1,1934)	1:125:A:LEU:HD23	1:132:A:ARG:HA	5	0.17
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD21	5	0.17
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD22	5	0.17
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD23	5	0.17
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	1	0.17
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	1	0.17
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	1	0.17
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	5	0.17
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	5	0.17
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	5	0.17
(1,1842)	1:124:A:MET:HG3	1:128:A:GLU:H	1	0.17
(1,1825)	1:126:A:GLU:HB2	1:126:A:GLU:HA	10	0.17
(1,1806)	1:125:A:LEU:HB3	1:125:A:LEU:HA	2	0.17
(1,1806)	1:125:A:LEU:HB3	1:125:A:LEU:HA	4	0.17
(1,1805)	1:125:A:LEU:HA	1:125:A:LEU:HB3	2	0.17
(1,1805)	1:125:A:LEU:HA	1:125:A:LEU:HB3	4	0.17
(1,1776)	1:124:A:MET:HB3	1:124:A:MET:H	1	0.17
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	6	0.17
(1,1765)	1:112:A:VAL:H	1:124:A:MET:H	10	0.17
(1,1764)	1:124:A:MET:H	1:112:A:VAL:H	10	0.17
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	1	0.17
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	3	0.17
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	10	0.17
(1,1714)	1:114:A:VAL:HG21	1:123:A:ALA:H	7	0.17
(1,1714)	1:114:A:VAL:HG22	1:123:A:ALA:H	7	0.17
(1,1714)	1:114:A:VAL:HG23	1:123:A:ALA:H	7	0.17
(1,1698)	1:122:A:TYR:HB3	1:122:A:TYR:HA	4	0.17
(1,1697)	1:122:A:TYR:HA	1:122:A:TYR:HB3	4	0.17
(1,1694)	1:121:A:ARG:HG3	1:122:A:TYR:H	10	0.17
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	4	0.17
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	5	0.17
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	6	0.17
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	10	0.17
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	2	0.17
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	3	0.17
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	4	0.17
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	7	0.17
(1,1519)	1:113:A:PHE:HA	1:113:A:PHE:H	10	0.17
(1,1489)	1:112:A:VAL:HG11	1:99:A:LEU:HB3	1	0.17
(1,1489)	1:112:A:VAL:HG12	1:99:A:LEU:HB3	1	0.17
(1,1489)	1:112:A:VAL:HG13	1:99:A:LEU:HB3	1	0.17
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG11	1	0.17
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG12	1	0.17
(1,1488)	1:99:A:LEU:HB3	1:112:A:VAL:HG13	1	0.17
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	2	0.17
(1,1459)	1:109:A:TYR:HD1	1:108:A:GLY:H	8	0.17
(1,1459)	1:109:A:TYR:HD2	1:108:A:GLY:H	8	0.17
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	3	0.17
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	3	0.17
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	6	0.17
(1,1396)	1:105:A:THR:HA	1:105:A:THR:H	1	0.17
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	1	0.17
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	1	0.17
(1,1317)	1:103:A:LEU:HD11	1:74:A:TYR:HE1	5	0.17
(1,1317)	1:103:A:LEU:HD11	1:74:A:TYR:HE2	5	0.17
(1,1317)	1:103:A:LEU:HD12	1:74:A:TYR:HE1	5	0.17
(1,1317)	1:103:A:LEU:HD12	1:74:A:TYR:HE2	5	0.17
(1,1317)	1:103:A:LEU:HD13	1:74:A:TYR:HE1	5	0.17
(1,1317)	1:103:A:LEU:HD13	1:74:A:TYR:HE2	5	0.17
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	5	0.17
(1,1246)	1:99:A:LEU:HD11	1:93:A:ALA:HA	1	0.17
(1,1246)	1:99:A:LEU:HD12	1:93:A:ALA:HA	1	0.17
(1,1246)	1:99:A:LEU:HD13	1:93:A:ALA:HA	1	0.17
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD11	1	0.17
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD12	1	0.17
(1,1245)	1:93:A:ALA:HA	1:99:A:LEU:HD13	1	0.17
(1,1221)	1:98:A:ASN:HA	1:98:A:ASN:H	9	0.17
(1,1218)	1:98:A:ASN:HA	1:98:A:ASN:HB3	9	0.17
(1,1217)	1:98:A:ASN:HB3	1:98:A:ASN:HA	9	0.17
(1,1188)	1:96:A:LYS:HE3	1:96:A:LYS:H	1	0.17
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	3	0.17
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	4	0.17
(1,1184)	1:96:A:LYS:HA	1:96:A:LYS:HB2	3	0.17
(1,1184)	1:96:A:LYS:HA	1:96:A:LYS:HB2	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1183)	1:96:A:LYS:HB2	1:96:A:LYS:HA	3	0.17
(1,1183)	1:96:A:LYS:HB2	1:96:A:LYS:HA	7	0.17
(1,1123)	1:90:A:ALA:HB1	1:93:A:ALA:HA	3	0.17
(1,1123)	1:90:A:ALA:HB2	1:93:A:ALA:HA	3	0.17
(1,1123)	1:90:A:ALA:HB3	1:93:A:ALA:HA	3	0.17
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB1	3	0.17
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB2	3	0.17
(1,1122)	1:93:A:ALA:HA	1:90:A:ALA:HB3	3	0.17
(1,1108)	1:91:A:ASP:HA	1:92:A:TRP:H	5	0.17
(1,1108)	1:91:A:ASP:HA	1:92:A:TRP:H	8	0.17
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	6	0.17
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	9	0.17
(1,1018)	1:86:A:ASN:HB3	1:86:A:ASN:HA	3	0.17
(1,1017)	1:86:A:ASN:HA	1:86:A:ASN:HB3	3	0.17
(1,911)	1:80:A:ALA:HA	1:80:A:ALA:H	7	0.17
(1,897)	1:79:A:ASP:HB3	1:79:A:ASP:H	2	0.17
(1,891)	1:79:A:ASP:H	1:78:A:THR:H	10	0.17
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	2	0.17
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	3	0.17
(1,827)	1:72:A:THR:HA	1:75:A:SER:H	5	0.17
(1,815)	1:74:A:TYR:H	1:73:A:THR:H	1	0.17
(1,815)	1:74:A:TYR:H	1:73:A:THR:H	5	0.17
(1,815)	1:74:A:TYR:H	1:73:A:THR:H	6	0.17
(1,814)	1:73:A:THR:H	1:74:A:TYR:H	1	0.17
(1,814)	1:73:A:THR:H	1:74:A:TYR:H	5	0.17
(1,814)	1:73:A:THR:H	1:74:A:TYR:H	6	0.17
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE1	4	0.17
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE2	4	0.17
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	10	0.17
(1,758)	1:71:A:SER:H	1:72:A:THR:H	6	0.17
(1,757)	1:72:A:THR:H	1:71:A:SER:H	6	0.17
(1,741)	1:71:A:SER:HA	1:71:A:SER:HB2	6	0.17
(1,740)	1:71:A:SER:HB2	1:71:A:SER:HA	6	0.17
(1,727)	1:70:A:PHE:HA	1:70:A:PHE:H	10	0.17
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	4	0.17
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	6	0.17
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	8	0.17
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	7	0.17
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	1	0.17
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	3	0.17
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	5	0.17
(1,582)	1:64:A:ARG:H	1:63:A:ARG:H	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,581)	1:63:A:ARG:H	1:64:A:ARG:H	10	0.17
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	10	0.17
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	10	0.17
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	4	0.17
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	7	0.17
(1,427)	1:58:A:LYS:HA	1:59:A:ALA:H	9	0.17
(1,323)	1:56:A:VAL:H	1:55:A:TYR:H	9	0.17
(1,322)	1:55:A:TYR:H	1:56:A:VAL:H	9	0.17
(1,310)	1:53:A:HIS:HB3	1:56:A:VAL:HB	3	0.17
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	3	0.17
(1,248)	1:54:A:PHE:HB3	1:51:A:GLN:HB2	9	0.17
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	9	0.17
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	1	0.17
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	9	0.17
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	9	0.17
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	9	0.17
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	2	0.17
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	4	0.17
(1,82)	1:47:A:ILE:HA	1:48:A:ALA:H	9	0.17
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	7	0.17
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	7	0.17
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	7	0.17
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	7	0.17
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	7	0.17
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	7	0.17
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	7	0.17
(1,5084)	1:230:A:SER:HA	1:242:A:TRP:H	10	0.16
(1,5071)	1:228:A:LYS:HB3	1:242:A:TRP:H	4	0.16
(1,5050)	1:214:A:ILE:HD11	1:242:A:TRP:HE1	1	0.16
(1,5050)	1:214:A:ILE:HD12	1:242:A:TRP:HE1	1	0.16
(1,5050)	1:214:A:ILE:HD13	1:242:A:TRP:HE1	1	0.16
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	1	0.16
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	2	0.16
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	3	0.16
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	5	0.16
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	6	0.16
(1,5010)	1:241:A:ALA:HB1	1:229:A:GLU:H	5	0.16
(1,5010)	1:241:A:ALA:HB2	1:229:A:GLU:H	5	0.16
(1,5010)	1:241:A:ALA:HB3	1:229:A:GLU:H	5	0.16
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	2	0.16
(1,4901)	1:239:A:ARG:HA	1:239:A:ARG:H	9	0.16
(1,4838)	1:236:A:THR:HG21	1:238:A:HIS:HB3	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4838)	1:236:A:THR:HG22	1:238:A:HIS:HB3	4	0.16
(1,4838)	1:236:A:THR:HG23	1:238:A:HIS:HB3	4	0.16
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG21	4	0.16
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG22	4	0.16
(1,4837)	1:238:A:HIS:HB3	1:236:A:THR:HG23	4	0.16
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	9	0.16
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	1	0.16
(1,4586)	1:228:A:LYS:HB2	1:228:A:LYS:HA	3	0.16
(1,4585)	1:228:A:LYS:HA	1:228:A:LYS:HB2	3	0.16
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	4	0.16
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	7	0.16
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	9	0.16
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	7	0.16
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	2	0.16
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	4	0.16
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	8	0.16
(1,4388)	1:217:A:LEU:HD11	1:206:A:ALA:HB1	9	0.16
(1,4388)	1:217:A:LEU:HD11	1:206:A:ALA:HB2	9	0.16
(1,4388)	1:217:A:LEU:HD11	1:206:A:ALA:HB3	9	0.16
(1,4388)	1:217:A:LEU:HD12	1:206:A:ALA:HB1	9	0.16
(1,4388)	1:217:A:LEU:HD12	1:206:A:ALA:HB2	9	0.16
(1,4388)	1:217:A:LEU:HD12	1:206:A:ALA:HB3	9	0.16
(1,4388)	1:217:A:LEU:HD13	1:206:A:ALA:HB1	9	0.16
(1,4388)	1:217:A:LEU:HD13	1:206:A:ALA:HB2	9	0.16
(1,4388)	1:217:A:LEU:HD13	1:206:A:ALA:HB3	9	0.16
(1,4387)	1:206:A:ALA:HB1	1:217:A:LEU:HD11	9	0.16
(1,4387)	1:206:A:ALA:HB1	1:217:A:LEU:HD12	9	0.16
(1,4387)	1:206:A:ALA:HB1	1:217:A:LEU:HD13	9	0.16
(1,4387)	1:206:A:ALA:HB2	1:217:A:LEU:HD11	9	0.16
(1,4387)	1:206:A:ALA:HB2	1:217:A:LEU:HD12	9	0.16
(1,4387)	1:206:A:ALA:HB2	1:217:A:LEU:HD13	9	0.16
(1,4387)	1:206:A:ALA:HB3	1:217:A:LEU:HD11	9	0.16
(1,4387)	1:206:A:ALA:HB3	1:217:A:LEU:HD12	9	0.16
(1,4387)	1:206:A:ALA:HB3	1:217:A:LEU:HD13	9	0.16
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	8	0.16
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	8	0.16
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	6	0.16
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	6	0.16
(1,4091)	1:208:A:LEU:HD21	1:63:A:ARG:H	10	0.16
(1,4091)	1:208:A:LEU:HD22	1:63:A:ARG:H	10	0.16
(1,4091)	1:208:A:LEU:HD23	1:63:A:ARG:H	10	0.16
(1,4076)	1:208:A:LEU:HD11	1:62:A:ASN:HB2	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4076)	1:208:A:LEU:HD12	1:62:A:ASN:HB2	6	0.16
(1,4076)	1:208:A:LEU:HD13	1:62:A:ASN:HB2	6	0.16
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD11	6	0.16
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD12	6	0.16
(1,4075)	1:62:A:ASN:HB2	1:208:A:LEU:HD13	6	0.16
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD21	6	0.16
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD22	6	0.16
(1,4067)	1:59:A:ALA:HB1	1:208:A:LEU:HD23	6	0.16
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD21	6	0.16
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD22	6	0.16
(1,4067)	1:59:A:ALA:HB2	1:208:A:LEU:HD23	6	0.16
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD21	6	0.16
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD22	6	0.16
(1,4067)	1:59:A:ALA:HB3	1:208:A:LEU:HD23	6	0.16
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	3	0.16
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	7	0.16
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	7	0.16
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	8	0.16
(1,3754)	1:197:A:VAL:HG21	1:172:A:LEU:H	9	0.16
(1,3754)	1:197:A:VAL:HG22	1:172:A:LEU:H	9	0.16
(1,3754)	1:197:A:VAL:HG23	1:172:A:LEU:H	9	0.16
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	6	0.16
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	9	0.16
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	3	0.16
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	9	0.16
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	9	0.16
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD21	9	0.16
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD22	9	0.16
(1,3473)	1:193:A:VAL:HG21	1:146:A:LEU:HD23	9	0.16
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD21	9	0.16
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD22	9	0.16
(1,3473)	1:193:A:VAL:HG22	1:146:A:LEU:HD23	9	0.16
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD21	9	0.16
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD22	9	0.16
(1,3473)	1:193:A:VAL:HG23	1:146:A:LEU:HD23	9	0.16
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	4	0.16
(1,3366)	1:188:A:LEU:H	1:189:A:ALA:H	8	0.16
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	4	0.16
(1,3365)	1:189:A:ALA:H	1:188:A:LEU:H	8	0.16
(1,3224)	1:183:A:HIS:HA	1:183:A:HIS:H	7	0.16
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	4	0.16
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	3	0.16
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	4	0.16
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	5	0.16
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG11	4	0.16
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG12	4	0.16
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG13	4	0.16
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG11	4	0.16
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG12	4	0.16
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG13	4	0.16
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG11	4	0.16
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG12	4	0.16
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG13	4	0.16
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD11	4	0.16
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD12	4	0.16
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD13	4	0.16
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD11	4	0.16
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD12	4	0.16
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD13	4	0.16
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD11	4	0.16
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD12	4	0.16
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD13	4	0.16
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	2	0.16
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	5	0.16
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	6	0.16
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	10	0.16
(1,2814)	1:168:A:ALA:HB1	1:170:A:ALA:H	1	0.16
(1,2814)	1:168:A:ALA:HB2	1:170:A:ALA:H	1	0.16
(1,2814)	1:168:A:ALA:HB3	1:170:A:ALA:H	1	0.16
(1,2814)	1:168:A:ALA:HB1	1:170:A:ALA:H	2	0.16
(1,2814)	1:168:A:ALA:HB2	1:170:A:ALA:H	2	0.16
(1,2814)	1:168:A:ALA:HB3	1:170:A:ALA:H	2	0.16
(1,2770)	1:164:A:ASP:HA	1:168:A:ALA:H	6	0.16
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	6	0.16
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	6	0.16
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD1	7	0.16
(1,2736)	1:164:A:ASP:HA	1:165:A:PHE:HD2	7	0.16
(1,2689)	1:163:A:VAL:HG21	1:161:A:ARG:HG2	5	0.16
(1,2689)	1:163:A:VAL:HG22	1:161:A:ARG:HG2	5	0.16
(1,2689)	1:163:A:VAL:HG23	1:161:A:ARG:HG2	5	0.16
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG21	5	0.16
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG22	5	0.16
(1,2688)	1:161:A:ARG:HG2	1:163:A:VAL:HG23	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2670)	1:162:A:TYR:HA	1:162:A:TYR:H	3	0.16
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	2	0.16
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	2	0.16
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	1	0.16
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	5	0.16
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	7	0.16
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	2	0.16
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	2	0.16
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	2	0.16
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	5	0.16
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	10	0.16
(1,2503)	1:155:A:ASP:HA	1:155:A:ASP:H	4	0.16
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	1	0.16
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	1	0.16
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	1	0.16
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	7	0.16
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	7	0.16
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	7	0.16
(1,2446)	1:153:A:ALA:HA	1:153:A:ALA:H	6	0.16
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	2	0.16
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	9	0.16
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	10	0.16
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	6	0.16
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	7	0.16
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	6	0.16
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	7	0.16
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	2	0.16
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	7	0.16
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	7	0.16
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	9	0.16
(1,2287)	1:146:A:LEU:HA	1:146:A:LEU:HB2	1	0.16
(1,2286)	1:146:A:LEU:HB2	1:146:A:LEU:HA	1	0.16
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG21	1	0.16
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG22	1	0.16
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG23	1	0.16
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG21	1	0.16
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG22	1	0.16
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG23	1	0.16
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG21	1	0.16
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG22	1	0.16
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG23	1	0.16
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG21	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG22	5	0.16
(1,2186)	1:145:A:ILE:HD11	1:115:A:ILE:HG23	5	0.16
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG21	5	0.16
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG22	5	0.16
(1,2186)	1:145:A:ILE:HD12	1:115:A:ILE:HG23	5	0.16
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG21	5	0.16
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG22	5	0.16
(1,2186)	1:145:A:ILE:HD13	1:115:A:ILE:HG23	5	0.16
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD11	1	0.16
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD12	1	0.16
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD13	1	0.16
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD11	1	0.16
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD12	1	0.16
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD13	1	0.16
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD11	1	0.16
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD12	1	0.16
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD13	1	0.16
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD11	5	0.16
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD12	5	0.16
(1,2185)	1:115:A:ILE:HG21	1:145:A:ILE:HD13	5	0.16
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD11	5	0.16
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD12	5	0.16
(1,2185)	1:115:A:ILE:HG22	1:145:A:ILE:HD13	5	0.16
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD11	5	0.16
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD12	5	0.16
(1,2185)	1:115:A:ILE:HG23	1:145:A:ILE:HD13	5	0.16
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	2	0.16
(1,2132)	1:141:A:ASP:HA	1:141:A:ASP:H	7	0.16
(1,2102)	1:139:A:ASN:HB2	1:139:A:ASN:HA	3	0.16
(1,2100)	1:139:A:ASN:HB3	1:139:A:ASN:HA	7	0.16
(1,2099)	1:139:A:ASN:HA	1:139:A:ASN:HB3	7	0.16
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	5	0.16
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	6	0.16
(1,1947)	1:130:A:SER:HA	1:132:A:ARG:H	7	0.16
(1,1946)	1:125:A:LEU:HD21	1:132:A:ARG:H	4	0.16
(1,1946)	1:125:A:LEU:HD22	1:132:A:ARG:H	4	0.16
(1,1946)	1:125:A:LEU:HD23	1:132:A:ARG:H	4	0.16
(1,1926)	1:131:A:GLU:HB3	1:131:A:GLU:HA	10	0.16
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	1	0.16
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	6	0.16
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	7	0.16
(1,1881)	1:129:A:LEU:HA	1:128:A:GLU:H	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1865)	1:129:A:LEU:HD21	1:94:A:PHE:H	10	0.16
(1,1865)	1:129:A:LEU:HD22	1:94:A:PHE:H	10	0.16
(1,1865)	1:129:A:LEU:HD23	1:94:A:PHE:H	10	0.16
(1,1806)	1:125:A:LEU:HB3	1:125:A:LEU:HA	6	0.16
(1,1805)	1:125:A:LEU:HA	1:125:A:LEU:HB3	6	0.16
(1,1798)	1:125:A:LEU:HD11	1:124:A:MET:H	8	0.16
(1,1798)	1:125:A:LEU:HD12	1:124:A:MET:H	8	0.16
(1,1798)	1:125:A:LEU:HD13	1:124:A:MET:H	8	0.16
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	2	0.16
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	7	0.16
(1,1584)	1:118:A:ARG:HB2	1:118:A:ARG:HA	8	0.16
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	2	0.16
(1,1547)	1:115:A:ILE:HA	1:115:A:ILE:H	8	0.16
(1,1527)	1:88:A:VAL:HG11	1:114:A:VAL:H	9	0.16
(1,1527)	1:88:A:VAL:HG12	1:114:A:VAL:H	9	0.16
(1,1527)	1:88:A:VAL:HG13	1:114:A:VAL:H	9	0.16
(1,1524)	1:88:A:VAL:HG21	1:114:A:VAL:HB	10	0.16
(1,1524)	1:88:A:VAL:HG22	1:114:A:VAL:HB	10	0.16
(1,1524)	1:88:A:VAL:HG23	1:114:A:VAL:HB	10	0.16
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG21	10	0.16
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG22	10	0.16
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG23	10	0.16
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	3	0.16
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	4	0.16
(1,1422)	1:106:A:THR:HA	1:106:A:THR:H	2	0.16
(1,1379)	1:102:A:VAL:HA	1:105:A:THR:H	9	0.16
(1,1351)	1:103:A:LEU:HB3	1:103:A:LEU:H	10	0.16
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	4	0.16
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	4	0.16
(1,1278)	1:97:A:ASN:HA	1:101:A:SER:H	5	0.16
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	3	0.16
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	9	0.16
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	5	0.16
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	5	0.16
(1,1223)	1:98:A:ASN:HB2	1:98:A:ASN:H	2	0.16
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	2	0.16
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	6	0.16
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	7	0.16
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	2	0.16
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	3	0.16
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	5	0.16
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1096)	1:92:A:TRP:HZ2	1:77:A:TRP:HZ2	9	0.16
(1,1054)	1:88:A:VAL:HB	1:88:A:VAL:H	9	0.16
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	1	0.16
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	2	0.16
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	3	0.16
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	4	0.16
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	5	0.16
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	7	0.16
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	10	0.16
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	5	0.16
(1,955)	1:82:A:VAL:HA	1:82:A:VAL:H	2	0.16
(1,952)	1:82:A:VAL:H	1:81:A:TYR:H	3	0.16
(1,951)	1:81:A:TYR:H	1:82:A:VAL:H	3	0.16
(1,923)	1:81:A:TYR:HB3	1:81:A:TYR:HA	3	0.16
(1,923)	1:81:A:TYR:HB3	1:81:A:TYR:HA	5	0.16
(1,923)	1:81:A:TYR:HB3	1:81:A:TYR:HA	6	0.16
(1,922)	1:81:A:TYR:HA	1:81:A:TYR:HB3	3	0.16
(1,922)	1:81:A:TYR:HA	1:81:A:TYR:HB3	5	0.16
(1,922)	1:81:A:TYR:HA	1:81:A:TYR:HB3	6	0.16
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	8	0.16
(1,857)	1:76:A:PHE:HA	1:76:A:PHE:H	7	0.16
(1,815)	1:74:A:TYR:H	1:73:A:THR:H	9	0.16
(1,814)	1:73:A:THR:H	1:74:A:TYR:H	9	0.16
(1,811)	1:73:A:THR:HA	1:74:A:TYR:H	3	0.16
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	9	0.16
(1,741)	1:71:A:SER:HA	1:71:A:SER:HB2	4	0.16
(1,740)	1:71:A:SER:HB2	1:71:A:SER:HA	4	0.16
(1,739)	1:71:A:SER:HA	1:71:A:SER:HB3	9	0.16
(1,738)	1:71:A:SER:HB3	1:71:A:SER:HA	9	0.16
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	6	0.16
(1,727)	1:70:A:PHE:HA	1:70:A:PHE:H	9	0.16
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	9	0.16
(1,690)	1:66:A:ASN:HB2	1:69:A:GLN:HB3	4	0.16
(1,689)	1:69:A:GLN:HB3	1:66:A:ASN:HB2	4	0.16
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	6	0.16
(1,652)	1:64:A:ARG:HB3	1:68:A:GLU:HB3	7	0.16
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	3	0.16
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	9	0.16
(1,638)	1:64:A:ARG:HA	1:67:A:SER:H	5	0.16
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	1	0.16
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	1	0.16
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,508)	1:59:A:ALA:HB1	1:62:A:ASN:HB3	4	0.16
(1,508)	1:59:A:ALA:HB2	1:62:A:ASN:HB3	4	0.16
(1,508)	1:59:A:ALA:HB3	1:62:A:ASN:HB3	4	0.16
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB1	4	0.16
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB2	4	0.16
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB3	4	0.16
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	2	0.16
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	8	0.16
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	2	0.16
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	2	0.16
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	3	0.16
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	3	0.16
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	2	0.16
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	2	0.16
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	3	0.16
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	3	0.16
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	1	0.16
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	2	0.16
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	3	0.16
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	4	0.16
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	6	0.16
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	7	0.16
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	10	0.16
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD1	5	0.16
(1,244)	1:50:A:GLU:HG2	1:54:A:PHE:HD2	5	0.16
(1,243)	1:54:A:PHE:HD1	1:50:A:GLU:HG2	5	0.16
(1,243)	1:54:A:PHE:HD2	1:50:A:GLU:HG2	5	0.16
(1,217)	1:50:A:GLU:HA	1:53:A:HIS:HD2	5	0.16
(1,194)	1:51:A:GLN:HA	1:51:A:GLN:HB2	9	0.16
(1,193)	1:51:A:GLN:HB2	1:51:A:GLN:HA	9	0.16
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	3	0.16
(1,181)	1:48:A:ALA:HA	1:51:A:GLN:H	8	0.16
(1,144)	1:47:A:ILE:HB	1:50:A:GLU:HG2	5	0.16
(1,143)	1:50:A:GLU:HG2	1:47:A:ILE:HB	5	0.16
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	4	0.16
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	5	0.16
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	6	0.16
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	3	0.16
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	3	0.16
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	3	0.16
(1,114)	1:47:A:ILE:HD11	1:49:A:ILE:H	7	0.16
(1,114)	1:47:A:ILE:HD12	1:49:A:ILE:H	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,114)	1:47:A:ILE:HD13	1:49:A:ILE:H	7	0.16
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	6	0.16
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	6	0.16
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	6	0.16
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	6	0.16
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	6	0.16
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	6	0.16
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	1	0.16
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	3	0.16
(2,25)	1:171:A:ILE:H	1:198:A:ASP:O	1	0.15
(1,5222)	1:246:A:ARG:HB3	1:246:A:ARG:H	1	0.15
(1,5222)	1:246:A:ARG:HB3	1:246:A:ARG:H	2	0.15
(1,5222)	1:246:A:ARG:HB3	1:246:A:ARG:H	6	0.15
(1,5222)	1:246:A:ARG:HB3	1:246:A:ARG:H	10	0.15
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	3	0.15
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	7	0.15
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	7	0.15
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	7	0.15
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	4	0.15
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	7	0.15
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	8	0.15
(1,5026)	1:241:A:ALA:HA	1:241:A:ALA:H	10	0.15
(1,5003)	1:241:A:ALA:HB1	1:228:A:LYS:HD3	3	0.15
(1,5003)	1:241:A:ALA:HB2	1:228:A:LYS:HD3	3	0.15
(1,5003)	1:241:A:ALA:HB3	1:228:A:LYS:HD3	3	0.15
(1,4737)	1:233:A:LEU:HA	1:233:A:LEU:H	9	0.15
(1,4713)	1:233:A:LEU:HD21	1:162:A:TYR:HE1	2	0.15
(1,4713)	1:233:A:LEU:HD21	1:162:A:TYR:HE2	2	0.15
(1,4713)	1:233:A:LEU:HD22	1:162:A:TYR:HE1	2	0.15
(1,4713)	1:233:A:LEU:HD22	1:162:A:TYR:HE2	2	0.15
(1,4713)	1:233:A:LEU:HD23	1:162:A:TYR:HE1	2	0.15
(1,4713)	1:233:A:LEU:HD23	1:162:A:TYR:HE2	2	0.15
(1,4586)	1:228:A:LYS:HB2	1:228:A:LYS:HA	1	0.15
(1,4586)	1:228:A:LYS:HB2	1:228:A:LYS:HA	9	0.15
(1,4585)	1:228:A:LYS:HA	1:228:A:LYS:HB2	1	0.15
(1,4585)	1:228:A:LYS:HA	1:228:A:LYS:HB2	9	0.15
(1,4545)	1:223:A:GLY:HA3	1:225:A:ALA:H	3	0.15
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	6	0.15
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	1	0.15
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	10	0.15
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB1	3	0.15
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB2	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4493)	1:168:A:ALA:HB1	1:221:A:ALA:HB3	3	0.15
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB1	3	0.15
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB2	3	0.15
(1,4493)	1:168:A:ALA:HB2	1:221:A:ALA:HB3	3	0.15
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB1	3	0.15
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB2	3	0.15
(1,4493)	1:168:A:ALA:HB3	1:221:A:ALA:HB3	3	0.15
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB1	3	0.15
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB2	3	0.15
(1,4492)	1:221:A:ALA:HB1	1:168:A:ALA:HB3	3	0.15
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB1	3	0.15
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB2	3	0.15
(1,4492)	1:221:A:ALA:HB2	1:168:A:ALA:HB3	3	0.15
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB1	3	0.15
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB2	3	0.15
(1,4492)	1:221:A:ALA:HB3	1:168:A:ALA:HB3	3	0.15
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	5	0.15
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	6	0.15
(1,4488)	1:220:A:LEU:HA	1:220:A:LEU:H	8	0.15
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	1	0.15
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	6	0.15
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	9	0.15
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	1	0.15
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	3	0.15
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	6	0.15
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	10	0.15
(1,4402)	1:217:A:LEU:H	1:209:A:GLY:H	8	0.15
(1,4401)	1:209:A:GLY:H	1:217:A:LEU:H	8	0.15
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	2	0.15
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	3	0.15
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	2	0.15
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	3	0.15
(1,4362)	1:216:A:ASN:HB3	1:216:A:ASN:HA	9	0.15
(1,4361)	1:216:A:ASN:HA	1:216:A:ASN:HB3	9	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	3	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	4	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	5	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	6	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	7	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	8	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	9	0.15
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	8	0.15
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	8	0.15
(1,4165)	1:207:A:LYS:HG3	1:211:A:ASP:H	1	0.15
(1,4165)	1:207:A:LYS:HG3	1:211:A:ASP:H	3	0.15
(1,4150)	1:207:A:LYS:HA	1:210:A:GLY:H	1	0.15
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	1	0.15
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	4	0.15
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	10	0.15
(1,4045)	1:207:A:LYS:H	1:206:A:ALA:H	2	0.15
(1,4044)	1:206:A:ALA:H	1:207:A:LYS:H	2	0.15
(1,4013)	1:205:A:LEU:H	1:206:A:ALA:H	2	0.15
(1,4012)	1:206:A:ALA:H	1:205:A:LEU:H	2	0.15
(1,3974)	1:205:A:LEU:HD21	1:202:A:PRO:HD3	8	0.15
(1,3974)	1:205:A:LEU:HD22	1:202:A:PRO:HD3	8	0.15
(1,3974)	1:205:A:LEU:HD23	1:202:A:PRO:HD3	8	0.15
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD21	8	0.15
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD22	8	0.15
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD23	8	0.15
(1,3785)	1:110:A:ASP:HA	1:199:A:ARG:H	9	0.15
(1,3754)	1:197:A:VAL:HG21	1:172:A:LEU:H	7	0.15
(1,3754)	1:197:A:VAL:HG22	1:172:A:LEU:H	7	0.15
(1,3754)	1:197:A:VAL:HG23	1:172:A:LEU:H	7	0.15
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	3	0.15
(1,3612)	1:195:A:VAL:HG21	1:173:A:VAL:H	10	0.15
(1,3612)	1:195:A:VAL:HG22	1:173:A:VAL:H	10	0.15
(1,3612)	1:195:A:VAL:HG23	1:173:A:VAL:H	10	0.15
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG11	3	0.15
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG12	3	0.15
(1,3596)	1:159:A:ILE:HG12	1:195:A:VAL:HG13	3	0.15
(1,3595)	1:195:A:VAL:HG11	1:159:A:ILE:HG12	3	0.15
(1,3595)	1:195:A:VAL:HG12	1:159:A:ILE:HG12	3	0.15
(1,3595)	1:195:A:VAL:HG13	1:159:A:ILE:HG12	3	0.15
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG21	5	0.15
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG22	5	0.15
(1,3590)	1:146:A:LEU:HD11	1:195:A:VAL:HG23	5	0.15
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG21	5	0.15
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG22	5	0.15
(1,3590)	1:146:A:LEU:HD12	1:195:A:VAL:HG23	5	0.15
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG21	5	0.15
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG22	5	0.15
(1,3590)	1:146:A:LEU:HD13	1:195:A:VAL:HG23	5	0.15
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD11	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD12	5	0.15
(1,3589)	1:195:A:VAL:HG21	1:146:A:LEU:HD13	5	0.15
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD11	5	0.15
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD12	5	0.15
(1,3589)	1:195:A:VAL:HG22	1:146:A:LEU:HD13	5	0.15
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD11	5	0.15
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD12	5	0.15
(1,3589)	1:195:A:VAL:HG23	1:146:A:LEU:HD13	5	0.15
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	2	0.15
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	7	0.15
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	6	0.15
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	6	0.15
(1,3493)	1:176:A:ALA:HA	1:193:A:VAL:H	2	0.15
(1,3430)	1:192:A:SER:HA	1:117:A:ASP:H	2	0.15
(1,3359)	1:187:A:ASP:H	1:189:A:ALA:H	7	0.15
(1,3224)	1:183:A:HIS:HA	1:183:A:HIS:H	9	0.15
(1,3210)	1:82:A:VAL:HG21	1:183:A:HIS:HD2	2	0.15
(1,3210)	1:82:A:VAL:HG22	1:183:A:HIS:HD2	2	0.15
(1,3210)	1:82:A:VAL:HG23	1:183:A:HIS:HD2	2	0.15
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	1	0.15
(1,3176)	1:179:A:PRO:HD2	1:180:A:THR:H	6	0.15
(1,3137)	1:178:A:LYS:HD3	1:178:A:LYS:H	7	0.15
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	1	0.15
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	7	0.15
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	8	0.15
(1,3000)	1:173:A:VAL:HA	1:173:A:VAL:H	8	0.15
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG11	6	0.15
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG12	6	0.15
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG13	6	0.15
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG11	6	0.15
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG12	6	0.15
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG13	6	0.15
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG11	6	0.15
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG12	6	0.15
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG13	6	0.15
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD11	6	0.15
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD12	6	0.15
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD13	6	0.15
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD11	6	0.15
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD12	6	0.15
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD13	6	0.15
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD11	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD12	6	0.15
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD13	6	0.15
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	1	0.15
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	3	0.15
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	4	0.15
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	7	0.15
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	8	0.15
(1,2820)	1:170:A:ALA:HA	1:170:A:ALA:H	9	0.15
(1,2757)	1:166:A:ASP:HB3	1:166:A:ASP:HA	1	0.15
(1,2757)	1:166:A:ASP:HB3	1:166:A:ASP:HA	4	0.15
(1,2756)	1:166:A:ASP:HA	1:166:A:ASP:HB3	1	0.15
(1,2756)	1:166:A:ASP:HA	1:166:A:ASP:HB3	4	0.15
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	4	0.15
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	5	0.15
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	6	0.15
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	9	0.15
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	4	0.15
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	5	0.15
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	6	0.15
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	9	0.15
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	4	0.15
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	6	0.15
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD11	3	0.15
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD12	3	0.15
(1,2585)	1:149:A:ALA:HA	1:159:A:ILE:HD13	3	0.15
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	8	0.15
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	8	0.15
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	8	0.15
(1,2475)	1:151:A:ARG:HA	1:154:A:VAL:H	4	0.15
(1,2475)	1:151:A:ARG:HA	1:154:A:VAL:H	5	0.15
(1,2475)	1:151:A:ARG:HA	1:154:A:VAL:H	8	0.15
(1,2461)	1:154:A:VAL:HG11	1:151:A:ARG:H	8	0.15
(1,2461)	1:154:A:VAL:HG12	1:151:A:ARG:H	8	0.15
(1,2461)	1:154:A:VAL:HG13	1:151:A:ARG:H	8	0.15
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	1	0.15
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	3	0.15
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	4	0.15
(1,2440)	1:152:A:ALA:HA	1:153:A:ALA:H	7	0.15
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	8	0.15
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	8	0.15
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	8	0.15
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2377)	1:149:A:ALA:H	1:150:A:ARG:H	1	0.15
(1,2376)	1:150:A:ARG:H	1:149:A:ALA:H	1	0.15
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	2	0.15
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	7	0.15
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	10	0.15
(1,2174)	1:141:A:ASP:HA	1:144:A:ASP:H	3	0.15
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	1	0.15
(1,2100)	1:139:A:ASN:HB3	1:139:A:ASN:HA	4	0.15
(1,2100)	1:139:A:ASN:HB3	1:139:A:ASN:HA	6	0.15
(1,2100)	1:139:A:ASN:HB3	1:139:A:ASN:HA	8	0.15
(1,2100)	1:139:A:ASN:HB3	1:139:A:ASN:HA	10	0.15
(1,2099)	1:139:A:ASN:HA	1:139:A:ASN:HB3	4	0.15
(1,2099)	1:139:A:ASN:HA	1:139:A:ASN:HB3	6	0.15
(1,2099)	1:139:A:ASN:HA	1:139:A:ASN:HB3	8	0.15
(1,2099)	1:139:A:ASN:HA	1:139:A:ASN:HB3	10	0.15
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	3	0.15
(1,2006)	1:134:A:LEU:HA	1:134:A:LEU:HB3	6	0.15
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	3	0.15
(1,2005)	1:134:A:LEU:HB3	1:134:A:LEU:HA	6	0.15
(1,1961)	1:132:A:ARG:HA	1:132:A:ARG:H	2	0.15
(1,1961)	1:132:A:ARG:HA	1:132:A:ARG:H	10	0.15
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	7	0.15
(1,1947)	1:130:A:SER:HA	1:132:A:ARG:H	9	0.15
(1,1909)	1:125:A:LEU:HB3	1:130:A:SER:H	10	0.15
(1,1899)	1:123:A:ALA:HB1	1:130:A:SER:HB2	9	0.15
(1,1899)	1:123:A:ALA:HB2	1:130:A:SER:HB2	9	0.15
(1,1899)	1:123:A:ALA:HB3	1:130:A:SER:HB2	9	0.15
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB1	9	0.15
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB2	9	0.15
(1,1898)	1:130:A:SER:HB2	1:123:A:ALA:HB3	9	0.15
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	3	0.15
(1,1865)	1:129:A:LEU:HD21	1:94:A:PHE:H	9	0.15
(1,1865)	1:129:A:LEU:HD22	1:94:A:PHE:H	9	0.15
(1,1865)	1:129:A:LEU:HD23	1:94:A:PHE:H	9	0.15
(1,1806)	1:125:A:LEU:HB3	1:125:A:LEU:HA	3	0.15
(1,1805)	1:125:A:LEU:HA	1:125:A:LEU:HB3	3	0.15
(1,1767)	1:113:A:PHE:HB2	1:124:A:MET:H	9	0.15
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	5	0.15
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	6	0.15
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	8	0.15
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	9	0.15
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1483)	1:110:A:ASP:HA	1:111:A:GLY:H	6	0.15
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	2	0.15
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	7	0.15
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	8	0.15
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	2	0.15
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	7	0.15
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	8	0.15
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD21	7	0.15
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD22	7	0.15
(1,1333)	1:99:A:LEU:HD21	1:103:A:LEU:HD23	7	0.15
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD21	7	0.15
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD22	7	0.15
(1,1333)	1:99:A:LEU:HD22	1:103:A:LEU:HD23	7	0.15
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD21	7	0.15
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD22	7	0.15
(1,1333)	1:99:A:LEU:HD23	1:103:A:LEU:HD23	7	0.15
(1,1301)	1:102:A:VAL:H	1:101:A:SER:H	2	0.15
(1,1300)	1:101:A:SER:H	1:102:A:VAL:H	2	0.15
(1,1287)	1:101:A:SER:HB2	1:101:A:SER:H	9	0.15
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	2	0.15
(1,1199)	1:97:A:ASN:HA	1:97:A:ASN:HB3	5	0.15
(1,1198)	1:97:A:ASN:HB3	1:97:A:ASN:HA	5	0.15
(1,1170)	1:95:A:THR:HA	1:95:A:THR:H	3	0.15
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	4	0.15
(1,1151)	1:93:A:ALA:H	1:94:A:PHE:H	4	0.15
(1,1150)	1:94:A:PHE:H	1:93:A:ALA:H	4	0.15
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	8	0.15
(1,1108)	1:91:A:ASP:HA	1:92:A:TRP:H	9	0.15
(1,1095)	1:91:A:ASP:HB2	1:91:A:ASP:H	7	0.15
(1,1053)	1:88:A:VAL:HA	1:88:A:VAL:H	8	0.15
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	1	0.15
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	3	0.15
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	4	0.15
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	7	0.15
(1,961)	1:79:A:ASP:HB2	1:83:A:TYR:HE1	3	0.15
(1,961)	1:79:A:ASP:HB2	1:83:A:TYR:HE2	3	0.15
(1,960)	1:83:A:TYR:HE1	1:79:A:ASP:HB2	3	0.15
(1,960)	1:83:A:TYR:HE2	1:79:A:ASP:HB2	3	0.15
(1,869)	1:77:A:TRP:HB3	1:77:A:TRP:HA	4	0.15
(1,869)	1:77:A:TRP:HB3	1:77:A:TRP:HA	9	0.15
(1,868)	1:77:A:TRP:HA	1:77:A:TRP:HB3	4	0.15
(1,868)	1:77:A:TRP:HA	1:77:A:TRP:HB3	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,846)	1:72:A:THR:HB	1:76:A:PHE:H	4	0.15
(1,830)	1:73:A:THR:HB	1:75:A:SER:H	10	0.15
(1,815)	1:74:A:TYR:H	1:73:A:THR:H	7	0.15
(1,814)	1:73:A:THR:H	1:74:A:TYR:H	7	0.15
(1,739)	1:71:A:SER:HA	1:71:A:SER:HB3	10	0.15
(1,738)	1:71:A:SER:HB3	1:71:A:SER:HA	10	0.15
(1,727)	1:70:A:PHE:HA	1:70:A:PHE:H	8	0.15
(1,724)	1:70:A:PHE:HA	1:70:A:PHE:HB3	10	0.15
(1,723)	1:70:A:PHE:HB3	1:70:A:PHE:HA	10	0.15
(1,718)	1:69:A:GLN:HA	1:70:A:PHE:H	8	0.15
(1,700)	1:69:A:GLN:HA	1:69:A:GLN:HB3	9	0.15
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	7	0.15
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	8	0.15
(1,661)	1:65:A:GLU:HG3	1:68:A:GLU:HB3	2	0.15
(1,660)	1:68:A:GLU:HB3	1:65:A:GLU:HG3	2	0.15
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	2	0.15
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	7	0.15
(1,642)	1:66:A:ASN:HA	1:67:A:SER:H	10	0.15
(1,632)	1:66:A:ASN:HB2	1:66:A:ASN:HA	4	0.15
(1,631)	1:66:A:ASN:HA	1:66:A:ASN:HB2	4	0.15
(1,608)	1:64:A:ARG:H	1:65:A:GLU:H	10	0.15
(1,607)	1:65:A:GLU:H	1:64:A:ARG:H	10	0.15
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	7	0.15
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	7	0.15
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	5	0.15
(1,466)	1:60:A:LEU:HA	1:60:A:LEU:H	6	0.15
(1,462)	1:59:A:ALA:H	1:60:A:LEU:H	4	0.15
(1,461)	1:60:A:LEU:H	1:59:A:ALA:H	4	0.15
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	10	0.15
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	10	0.15
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	10	0.15
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	10	0.15
(1,377)	1:55:A:TYR:HE1	1:58:A:LYS:HB3	2	0.15
(1,377)	1:55:A:TYR:HE2	1:58:A:LYS:HB3	2	0.15
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	6	0.15
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	8	0.15
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	10	0.15
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	9	0.15
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	1	0.15
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	10	0.15
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	1	0.15
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	1	0.15
(1,161)	1:50:A:GLU:HA	1:50:A:GLU:HB3	2	0.15
(1,160)	1:50:A:GLU:HB3	1:50:A:GLU:HA	2	0.15
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	2	0.15
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	5	0.15
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	6	0.15
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	8	0.15
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	10	0.15
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	7	0.15
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	9	0.15
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	10	0.15
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD11	3	0.15
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD12	3	0.15
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD13	3	0.15
(1,44)	1:47:A:ILE:HD11	1:44:A:GLN:HB3	3	0.15
(1,44)	1:47:A:ILE:HD12	1:44:A:GLN:HB3	3	0.15
(1,44)	1:47:A:ILE:HD13	1:44:A:GLN:HB3	3	0.15
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	4	0.15
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	5	0.15
(2,8)	1:116:A:ASP:N	1:119:A:GLY:O	5	0.14
(1,5207)	1:48:A:ALA:HB1	1:246:A:ARG:H	1	0.14
(1,5207)	1:48:A:ALA:HB2	1:246:A:ARG:H	1	0.14
(1,5207)	1:48:A:ALA:HB3	1:246:A:ARG:H	1	0.14
(1,5100)	1:240:A:LEU:HD21	1:242:A:TRP:HZ3	10	0.14
(1,5100)	1:240:A:LEU:HD22	1:242:A:TRP:HZ3	10	0.14
(1,5100)	1:240:A:LEU:HD23	1:242:A:TRP:HZ3	10	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	1	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	2	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	3	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	5	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	6	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	7	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	8	0.14
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	10	0.14
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	2	0.14
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	2	0.14
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	2	0.14
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	2	0.14
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	2	0.14
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	2	0.14
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	2	0.14
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	2	0.14
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	2	0.14
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	2	0.14
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	2	0.14
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	2	0.14
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	2	0.14
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	2	0.14
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	2	0.14
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	2	0.14
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	2	0.14
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	2	0.14
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	2	0.14
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	2	0.14
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	2	0.14
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	2	0.14
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	2	0.14
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	2	0.14
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	2	0.14
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	2	0.14
(1,4589)	1:228:A:LYS:HD3	1:228:A:LYS:H	3	0.14
(1,4587)	1:228:A:LYS:HA	1:228:A:LYS:H	2	0.14
(1,4587)	1:228:A:LYS:HA	1:228:A:LYS:H	8	0.14
(1,4565)	1:227:A:ASP:HA	1:227:A:ASP:H	3	0.14
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	7	0.14
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	8	0.14
(1,4468)	1:219:A:LEU:HA	1:219:A:LEU:HB2	1	0.14
(1,4468)	1:219:A:LEU:HA	1:219:A:LEU:HB2	3	0.14
(1,4468)	1:219:A:LEU:HA	1:219:A:LEU:HB2	7	0.14
(1,4468)	1:219:A:LEU:HA	1:219:A:LEU:HB2	10	0.14
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	7	0.14
(1,4364)	1:216:A:ASN:HB2	1:216:A:ASN:HA	5	0.14
(1,4363)	1:216:A:ASN:HA	1:216:A:ASN:HB2	5	0.14
(1,4240)	1:212:A:TYR:HA	1:212:A:TYR:H	1	0.14
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	7	0.14
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	7	0.14
(1,4169)	1:208:A:LEU:HD21	1:211:A:ASP:HB2	4	0.14
(1,4169)	1:208:A:LEU:HD22	1:211:A:ASP:HB2	4	0.14
(1,4169)	1:208:A:LEU:HD23	1:211:A:ASP:HB2	4	0.14
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD21	4	0.14
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD22	4	0.14
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD23	4	0.14
(1,4165)	1:207:A:LYS:HG3	1:211:A:ASP:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	9	0.14
(1,3559)	1:194:A:MET:HA	1:194:A:MET:H	8	0.14
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	4	0.14
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	4	0.14
(1,3456)	1:115:A:ILE:HD11	1:193:A:VAL:H	9	0.14
(1,3456)	1:115:A:ILE:HD12	1:193:A:VAL:H	9	0.14
(1,3456)	1:115:A:ILE:HD13	1:193:A:VAL:H	9	0.14
(1,3430)	1:192:A:SER:HA	1:117:A:ASP:H	7	0.14
(1,3381)	1:190:A:LYS:HE2	1:189:A:ALA:HB1	7	0.14
(1,3381)	1:190:A:LYS:HE2	1:189:A:ALA:HB2	7	0.14
(1,3381)	1:190:A:LYS:HE2	1:189:A:ALA:HB3	7	0.14
(1,3380)	1:189:A:ALA:HB1	1:190:A:LYS:HE2	7	0.14
(1,3380)	1:189:A:ALA:HB2	1:190:A:LYS:HE2	7	0.14
(1,3380)	1:189:A:ALA:HB3	1:190:A:LYS:HE2	7	0.14
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE1	5	0.14
(1,3255)	1:186:A:ILE:HD11	1:81:A:TYR:HE2	5	0.14
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE1	5	0.14
(1,3255)	1:186:A:ILE:HD12	1:81:A:TYR:HE2	5	0.14
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE1	5	0.14
(1,3255)	1:186:A:ILE:HD13	1:81:A:TYR:HE2	5	0.14
(1,3224)	1:183:A:HIS:HA	1:183:A:HIS:H	10	0.14
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	4	0.14
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG11	8	0.14
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG12	8	0.14
(1,2987)	1:171:A:ILE:HD11	1:173:A:VAL:HG13	8	0.14
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG11	8	0.14
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG12	8	0.14
(1,2987)	1:171:A:ILE:HD12	1:173:A:VAL:HG13	8	0.14
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG11	8	0.14
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG12	8	0.14
(1,2987)	1:171:A:ILE:HD13	1:173:A:VAL:HG13	8	0.14
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD11	8	0.14
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD12	8	0.14
(1,2986)	1:173:A:VAL:HG11	1:171:A:ILE:HD13	8	0.14
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD11	8	0.14
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD12	8	0.14
(1,2986)	1:173:A:VAL:HG12	1:171:A:ILE:HD13	8	0.14
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD11	8	0.14
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD12	8	0.14
(1,2986)	1:173:A:VAL:HG13	1:171:A:ILE:HD13	8	0.14
(1,2979)	1:173:A:VAL:HG11	1:159:A:ILE:H	1	0.14
(1,2979)	1:173:A:VAL:HG12	1:159:A:ILE:H	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2979)	1:173:A:VAL:HG13	1:159:A:ILE:H	1	0.14
(1,2814)	1:168:A:ALA:HB1	1:170:A:ALA:H	5	0.14
(1,2814)	1:168:A:ALA:HB2	1:170:A:ALA:H	5	0.14
(1,2814)	1:168:A:ALA:HB3	1:170:A:ALA:H	5	0.14
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	8	0.14
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	8	0.14
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	3	0.14
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	9	0.14
(1,2547)	1:157:A:ALA:HA	1:157:A:ALA:H	6	0.14
(1,2544)	1:156:A:GLU:H	1:157:A:ALA:H	8	0.14
(1,2541)	1:157:A:ALA:HA	1:156:A:GLU:H	9	0.14
(1,2451)	1:151:A:ARG:HD2	1:154:A:VAL:HB	8	0.14
(1,2450)	1:154:A:VAL:HB	1:151:A:ARG:HD2	8	0.14
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	5	0.14
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	7	0.14
(1,2381)	1:150:A:ARG:HA	1:150:A:ARG:HB2	6	0.14
(1,2380)	1:150:A:ARG:HB2	1:150:A:ARG:HA	6	0.14
(1,2369)	1:147:A:ARG:HA	1:150:A:ARG:H	8	0.14
(1,2315)	1:147:A:ARG:HA	1:147:A:ARG:H	3	0.14
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	8	0.14
(1,2287)	1:146:A:LEU:HA	1:146:A:LEU:HB2	9	0.14
(1,2286)	1:146:A:LEU:HB2	1:146:A:LEU:HA	9	0.14
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD11	3	0.14
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD12	3	0.14
(1,2197)	1:138:A:LEU:HD11	1:145:A:ILE:HD13	3	0.14
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD11	3	0.14
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD12	3	0.14
(1,2197)	1:138:A:LEU:HD12	1:145:A:ILE:HD13	3	0.14
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD11	3	0.14
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD12	3	0.14
(1,2197)	1:138:A:LEU:HD13	1:145:A:ILE:HD13	3	0.14
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	10	0.14
(1,2126)	1:140:A:ALA:HA	1:140:A:ALA:H	7	0.14
(1,2042)	1:136:A:ASP:HA	1:136:A:ASP:H	9	0.14
(1,1981)	1:113:A:PHE:HE1	1:134:A:LEU:HA	1	0.14
(1,1981)	1:113:A:PHE:HE2	1:134:A:LEU:HA	1	0.14
(1,1961)	1:132:A:ARG:HA	1:132:A:ARG:H	5	0.14
(1,1961)	1:132:A:ARG:HA	1:132:A:ARG:H	7	0.14
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	1	0.14
(1,1853)	1:128:A:GLU:HA	1:128:A:GLU:H	8	0.14
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	10	0.14
(1,1727)	1:123:A:ALA:HA	1:123:A:ALA:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1524)	1:88:A:VAL:HG21	1:114:A:VAL:HB	4	0.14
(1,1524)	1:88:A:VAL:HG22	1:114:A:VAL:HB	4	0.14
(1,1524)	1:88:A:VAL:HG23	1:114:A:VAL:HB	4	0.14
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG21	4	0.14
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG22	4	0.14
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG23	4	0.14
(1,1458)	1:104:A:TYR:HA	1:109:A:TYR:H	5	0.14
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	4	0.14
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	4	0.14
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	4	0.14
(1,1402)	1:102:A:VAL:HG11	1:106:A:THR:HB	3	0.14
(1,1402)	1:102:A:VAL:HG12	1:106:A:THR:HB	3	0.14
(1,1402)	1:102:A:VAL:HG13	1:106:A:THR:HB	3	0.14
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG11	3	0.14
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG12	3	0.14
(1,1401)	1:106:A:THR:HB	1:102:A:VAL:HG13	3	0.14
(1,1379)	1:102:A:VAL:HA	1:105:A:THR:H	5	0.14
(1,1292)	1:102:A:VAL:HG11	1:98:A:ASN:HA	6	0.14
(1,1292)	1:102:A:VAL:HG12	1:98:A:ASN:HA	6	0.14
(1,1292)	1:102:A:VAL:HG13	1:98:A:ASN:HA	6	0.14
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG11	6	0.14
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG12	6	0.14
(1,1291)	1:98:A:ASN:HA	1:102:A:VAL:HG13	6	0.14
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	8	0.14
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	10	0.14
(1,1259)	1:99:A:LEU:HA	1:99:A:LEU:HB3	4	0.14
(1,1258)	1:99:A:LEU:HB3	1:99:A:LEU:HA	4	0.14
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	2	0.14
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	6	0.14
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	9	0.14
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	10	0.14
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	1	0.14
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	6	0.14
(1,955)	1:82:A:VAL:HA	1:82:A:VAL:H	7	0.14
(1,921)	1:81:A:TYR:H	1:80:A:ALA:H	9	0.14
(1,920)	1:80:A:ALA:H	1:81:A:TYR:H	9	0.14
(1,857)	1:76:A:PHE:HA	1:76:A:PHE:H	5	0.14
(1,826)	1:72:A:THR:HG21	1:75:A:SER:HB2	9	0.14
(1,826)	1:72:A:THR:HG22	1:75:A:SER:HB2	9	0.14
(1,826)	1:72:A:THR:HG23	1:75:A:SER:HB2	9	0.14
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG21	9	0.14
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG22	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG23	9	0.14
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	1	0.14
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	2	0.14
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	3	0.14
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	5	0.14
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	9	0.14
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD1	1	0.14
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD2	1	0.14
(1,796)	1:74:A:TYR:HD1	1:71:A:SER:HA	1	0.14
(1,796)	1:74:A:TYR:HD2	1:71:A:SER:HA	1	0.14
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	1	0.14
(1,758)	1:71:A:SER:H	1:72:A:THR:H	2	0.14
(1,758)	1:71:A:SER:H	1:72:A:THR:H	5	0.14
(1,757)	1:72:A:THR:H	1:71:A:SER:H	2	0.14
(1,757)	1:72:A:THR:H	1:71:A:SER:H	5	0.14
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG21	8	0.14
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG22	8	0.14
(1,750)	1:69:A:GLN:HG2	1:72:A:THR:HG23	8	0.14
(1,749)	1:72:A:THR:HG21	1:69:A:GLN:HG2	8	0.14
(1,749)	1:72:A:THR:HG22	1:69:A:GLN:HG2	8	0.14
(1,749)	1:72:A:THR:HG23	1:69:A:GLN:HG2	8	0.14
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	2	0.14
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	3	0.14
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	4	0.14
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	8	0.14
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	9	0.14
(1,724)	1:70:A:PHE:HA	1:70:A:PHE:HB3	8	0.14
(1,723)	1:70:A:PHE:HB3	1:70:A:PHE:HA	8	0.14
(1,702)	1:69:A:GLN:HA	1:69:A:GLN:HB2	8	0.14
(1,700)	1:69:A:GLN:HA	1:69:A:GLN:HB3	3	0.14
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	1	0.14
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	2	0.14
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	5	0.14
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	10	0.14
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	5	0.14
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	5	0.14
(1,656)	1:64:A:ARG:HB2	1:68:A:GLU:HG2	4	0.14
(1,655)	1:68:A:GLU:HG2	1:64:A:ARG:HB2	4	0.14
(1,633)	1:66:A:ASN:HA	1:66:A:ASN:H	5	0.14
(1,610)	1:65:A:GLU:HA	1:65:A:GLU:HB3	7	0.14
(1,609)	1:65:A:GLU:HB3	1:65:A:GLU:HA	7	0.14
(1,603)	1:64:A:ARG:HA	1:65:A:GLU:H	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,582)	1:64:A:ARG:H	1:63:A:ARG:H	2	0.14
(1,581)	1:63:A:ARG:H	1:64:A:ARG:H	2	0.14
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	9	0.14
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	9	0.14
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	2	0.14
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	10	0.14
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	4	0.14
(1,485)	1:60:A:LEU:HA	1:61:A:GLN:H	5	0.14
(1,466)	1:60:A:LEU:HA	1:60:A:LEU:H	8	0.14
(1,432)	1:59:A:ALA:H	1:58:A:LYS:H	4	0.14
(1,431)	1:58:A:LYS:H	1:59:A:ALA:H	4	0.14
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	8	0.14
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	8	0.14
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	8	0.14
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	8	0.14
(1,377)	1:55:A:TYR:HE1	1:58:A:LYS:HB3	6	0.14
(1,377)	1:55:A:TYR:HE2	1:58:A:LYS:HB3	6	0.14
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	4	0.14
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	5	0.14
(1,347)	1:56:A:VAL:HA	1:57:A:GLU:H	7	0.14
(1,310)	1:53:A:HIS:HB3	1:56:A:VAL:HB	10	0.14
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	1	0.14
(1,248)	1:54:A:PHE:HB3	1:51:A:GLN:HB2	6	0.14
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	6	0.14
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	7	0.14
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	6	0.14
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	4	0.14
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	7	0.14
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	9	0.14
(1,144)	1:47:A:ILE:HB	1:50:A:GLU:HG2	8	0.14
(1,143)	1:50:A:GLU:HG2	1:47:A:ILE:HB	8	0.14
(1,116)	1:48:A:ALA:HA	1:49:A:ILE:H	3	0.14
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB1	1	0.14
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB2	1	0.14
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB3	1	0.14
(1,72)	1:48:A:ALA:HB1	1:44:A:GLN:HG2	1	0.14
(1,72)	1:48:A:ALA:HB2	1:44:A:GLN:HG2	1	0.14
(1,72)	1:48:A:ALA:HB3	1:44:A:GLN:HG2	1	0.14
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	4	0.14
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	4	0.14
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	4	0.14
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	4	0.14
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	4	0.14
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD11	8	0.14
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD12	8	0.14
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD13	8	0.14
(1,44)	1:47:A:ILE:HD11	1:44:A:GLN:HB3	8	0.14
(1,44)	1:47:A:ILE:HD12	1:44:A:GLN:HB3	8	0.14
(1,44)	1:47:A:ILE:HD13	1:44:A:GLN:HB3	8	0.14
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	6	0.14
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	9	0.14
(1,14)	1:45:A:ASP:H	1:44:A:GLN:H	9	0.14
(1,13)	1:44:A:GLN:H	1:45:A:ASP:H	9	0.14
(2,11)	1:112:A:VAL:H	1:124:A:MET:O	3	0.13
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG21	9	0.13
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG22	9	0.13
(1,5165)	1:244:A:SER:HB3	1:49:A:ILE:HG23	9	0.13
(1,5164)	1:49:A:ILE:HG21	1:244:A:SER:HB3	9	0.13
(1,5164)	1:49:A:ILE:HG22	1:244:A:SER:HB3	9	0.13
(1,5164)	1:49:A:ILE:HG23	1:244:A:SER:HB3	9	0.13
(1,5079)	1:229:A:GLU:HA	1:242:A:TRP:HZ2	2	0.13
(1,5079)	1:229:A:GLU:HA	1:242:A:TRP:HZ2	8	0.13
(1,5010)	1:241:A:ALA:HB1	1:229:A:GLU:H	1	0.13
(1,5010)	1:241:A:ALA:HB2	1:229:A:GLU:H	1	0.13
(1,5010)	1:241:A:ALA:HB3	1:229:A:GLU:H	1	0.13
(1,5000)	1:241:A:ALA:HB1	1:228:A:LYS:HB3	7	0.13
(1,5000)	1:241:A:ALA:HB2	1:228:A:LYS:HB3	7	0.13
(1,5000)	1:241:A:ALA:HB3	1:228:A:LYS:HB3	7	0.13
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	3	0.13
(1,4888)	1:239:A:ARG:HB3	1:231:A:LEU:H	8	0.13
(1,4805)	1:236:A:THR:HA	1:236:A:THR:H	4	0.13
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD11	5	0.13
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD12	5	0.13
(1,4724)	1:232:A:ALA:HB1	1:233:A:LEU:HD13	5	0.13
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD11	5	0.13
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD12	5	0.13
(1,4724)	1:232:A:ALA:HB2	1:233:A:LEU:HD13	5	0.13
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD11	5	0.13
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD12	5	0.13
(1,4724)	1:232:A:ALA:HB3	1:233:A:LEU:HD13	5	0.13
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB1	5	0.13
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB2	5	0.13
(1,4723)	1:233:A:LEU:HD11	1:232:A:ALA:HB3	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB1	5	0.13
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB2	5	0.13
(1,4723)	1:233:A:LEU:HD12	1:232:A:ALA:HB3	5	0.13
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB1	5	0.13
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB2	5	0.13
(1,4723)	1:233:A:LEU:HD13	1:232:A:ALA:HB3	5	0.13
(1,4706)	1:233:A:LEU:HA	1:162:A:TYR:HD1	9	0.13
(1,4706)	1:233:A:LEU:HA	1:162:A:TYR:HD2	9	0.13
(1,4705)	1:162:A:TYR:HD1	1:233:A:LEU:HA	9	0.13
(1,4705)	1:162:A:TYR:HD2	1:233:A:LEU:HA	9	0.13
(1,4568)	1:228:A:LYS:HE3	1:218:A:HIS:HD2	7	0.13
(1,4567)	1:218:A:HIS:HD2	1:228:A:LYS:HE3	7	0.13
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	5	0.13
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	9	0.13
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	6	0.13
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	3	0.13
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	7	0.13
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	10	0.13
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	2	0.13
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	4	0.13
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	8	0.13
(1,4405)	1:214:A:ILE:HG21	1:217:A:LEU:HB3	9	0.13
(1,4405)	1:214:A:ILE:HG22	1:217:A:LEU:HB3	9	0.13
(1,4405)	1:214:A:ILE:HG23	1:217:A:LEU:HB3	9	0.13
(1,4404)	1:217:A:LEU:HB3	1:214:A:ILE:HG21	9	0.13
(1,4404)	1:217:A:LEU:HB3	1:214:A:ILE:HG22	9	0.13
(1,4404)	1:217:A:LEU:HB3	1:214:A:ILE:HG23	9	0.13
(1,4391)	1:206:A:ALA:HB1	1:217:A:LEU:H	1	0.13
(1,4391)	1:206:A:ALA:HB2	1:217:A:LEU:H	1	0.13
(1,4391)	1:206:A:ALA:HB3	1:217:A:LEU:H	1	0.13
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	1	0.13
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	9	0.13
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	2	0.13
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	2	0.13
(1,4135)	1:205:A:LEU:HD21	1:209:A:GLY:H	1	0.13
(1,4135)	1:205:A:LEU:HD22	1:209:A:GLY:H	1	0.13
(1,4135)	1:205:A:LEU:HD23	1:209:A:GLY:H	1	0.13
(1,4074)	1:208:A:LEU:HD21	1:60:A:LEU:H	3	0.13
(1,4074)	1:208:A:LEU:HD22	1:60:A:LEU:H	3	0.13
(1,4074)	1:208:A:LEU:HD23	1:60:A:LEU:H	3	0.13
(1,4074)	1:208:A:LEU:HD21	1:60:A:LEU:H	10	0.13
(1,4074)	1:208:A:LEU:HD22	1:60:A:LEU:H	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4074)	1:208:A:LEU:HD23	1:60:A:LEU:H	10	0.13
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	2	0.13
(1,3974)	1:205:A:LEU:HD21	1:202:A:PRO:HD3	7	0.13
(1,3974)	1:205:A:LEU:HD22	1:202:A:PRO:HD3	7	0.13
(1,3974)	1:205:A:LEU:HD23	1:202:A:PRO:HD3	7	0.13
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD21	7	0.13
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD22	7	0.13
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD23	7	0.13
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	2	0.13
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	3	0.13
(1,3955)	1:204:A:LYS:HA	1:204:A:LYS:H	9	0.13
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	1	0.13
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	3	0.13
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	4	0.13
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD11	2	0.13
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD12	2	0.13
(1,3846)	1:171:A:ILE:HA	1:200:A:LEU:HD13	2	0.13
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	3	0.13
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	4	0.13
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD21	4	0.13
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD22	4	0.13
(1,3527)	1:194:A:MET:HE1	1:99:A:LEU:HD23	4	0.13
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD21	4	0.13
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD22	4	0.13
(1,3527)	1:194:A:MET:HE2	1:99:A:LEU:HD23	4	0.13
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD21	4	0.13
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD22	4	0.13
(1,3527)	1:194:A:MET:HE3	1:99:A:LEU:HD23	4	0.13
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD11	10	0.13
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD12	10	0.13
(1,3520)	1:194:A:MET:HE1	1:84:A:LEU:HD13	10	0.13
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD11	10	0.13
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD12	10	0.13
(1,3520)	1:194:A:MET:HE2	1:84:A:LEU:HD13	10	0.13
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD11	10	0.13
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD12	10	0.13
(1,3520)	1:194:A:MET:HE3	1:84:A:LEU:HD13	10	0.13
(1,3478)	1:193:A:VAL:HG21	1:149:A:ALA:H	5	0.13
(1,3478)	1:193:A:VAL:HG22	1:149:A:ALA:H	5	0.13
(1,3478)	1:193:A:VAL:HG23	1:149:A:ALA:H	5	0.13
(1,3463)	1:146:A:LEU:HD11	1:193:A:VAL:HB	1	0.13
(1,3463)	1:146:A:LEU:HD12	1:193:A:VAL:HB	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3463)	1:146:A:LEU:HD13	1:193:A:VAL:HB	1	0.13
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD11	1	0.13
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD12	1	0.13
(1,3462)	1:193:A:VAL:HB	1:146:A:LEU:HD13	1	0.13
(1,3455)	1:115:A:ILE:HB	1:193:A:VAL:H	5	0.13
(1,3455)	1:115:A:ILE:HB	1:193:A:VAL:H	9	0.13
(1,3219)	1:183:A:HIS:H	1:182:A:ASP:H	4	0.13
(1,3218)	1:182:A:ASP:H	1:183:A:HIS:H	4	0.13
(1,3176)	1:179:A:PRO:HD2	1:180:A:THR:H	8	0.13
(1,3171)	1:180:A:THR:HG21	1:81:A:TYR:HD1	5	0.13
(1,3171)	1:180:A:THR:HG21	1:81:A:TYR:HD2	5	0.13
(1,3171)	1:180:A:THR:HG22	1:81:A:TYR:HD1	5	0.13
(1,3171)	1:180:A:THR:HG22	1:81:A:TYR:HD2	5	0.13
(1,3171)	1:180:A:THR:HG23	1:81:A:TYR:HD1	5	0.13
(1,3171)	1:180:A:THR:HG23	1:81:A:TYR:HD2	5	0.13
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG21	5	0.13
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG22	5	0.13
(1,3170)	1:81:A:TYR:HD1	1:180:A:THR:HG23	5	0.13
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG21	5	0.13
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG22	5	0.13
(1,3170)	1:81:A:TYR:HD2	1:180:A:THR:HG23	5	0.13
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	2	0.13
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	1	0.13
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	1	0.13
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	10	0.13
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	1	0.13
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	10	0.13
(1,2584)	1:159:A:ILE:HG21	1:148:A:SER:H	5	0.13
(1,2584)	1:159:A:ILE:HG22	1:148:A:SER:H	5	0.13
(1,2584)	1:159:A:ILE:HG23	1:148:A:SER:H	5	0.13
(1,2544)	1:156:A:GLU:H	1:157:A:ALA:H	1	0.13
(1,2544)	1:156:A:GLU:H	1:157:A:ALA:H	10	0.13
(1,2475)	1:151:A:ARG:HA	1:154:A:VAL:H	10	0.13
(1,2423)	1:151:A:ARG:HA	1:152:A:ALA:H	4	0.13
(1,2401)	1:150:A:ARG:HA	1:151:A:ARG:H	3	0.13
(1,2339)	1:148:A:SER:HA	1:148:A:SER:H	6	0.13
(1,2339)	1:148:A:SER:HA	1:148:A:SER:H	7	0.13
(1,2334)	1:147:A:ARG:H	1:148:A:SER:H	6	0.13
(1,2333)	1:148:A:SER:H	1:147:A:ARG:H	6	0.13
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	1	0.13
(1,2305)	1:146:A:LEU:HA	1:147:A:ARG:H	4	0.13
(1,2302)	1:144:A:ASP:HB2	1:147:A:ARG:H	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2250)	1:146:A:LEU:HD21	1:115:A:ILE:HG12	8	0.13
(1,2250)	1:146:A:LEU:HD22	1:115:A:ILE:HG12	8	0.13
(1,2250)	1:146:A:LEU:HD23	1:115:A:ILE:HG12	8	0.13
(1,2249)	1:115:A:ILE:HG12	1:146:A:LEU:HD21	8	0.13
(1,2249)	1:115:A:ILE:HG12	1:146:A:LEU:HD22	8	0.13
(1,2249)	1:115:A:ILE:HG12	1:146:A:LEU:HD23	8	0.13
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	6	0.13
(1,2181)	1:144:A:ASP:HA	1:144:A:ASP:H	8	0.13
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	6	0.13
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	7	0.13
(1,2132)	1:141:A:ASP:HA	1:141:A:ASP:H	3	0.13
(1,2042)	1:136:A:ASP:HA	1:136:A:ASP:H	6	0.13
(1,2023)	1:135:A:ALA:HA	1:135:A:ALA:H	3	0.13
(1,1946)	1:125:A:LEU:HD21	1:132:A:ARG:H	9	0.13
(1,1946)	1:125:A:LEU:HD22	1:132:A:ARG:H	9	0.13
(1,1946)	1:125:A:LEU:HD23	1:132:A:ARG:H	9	0.13
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	5	0.13
(1,1666)	1:122:A:TYR:HE1	1:94:A:PHE:H	5	0.13
(1,1666)	1:122:A:TYR:HE2	1:94:A:PHE:H	5	0.13
(1,1582)	1:118:A:ARG:HB3	1:118:A:ARG:HA	7	0.13
(1,1343)	1:103:A:LEU:HG	1:102:A:VAL:H	4	0.13
(1,1278)	1:97:A:ASN:HA	1:101:A:SER:H	9	0.13
(1,1233)	1:99:A:LEU:HD21	1:80:A:ALA:HA	3	0.13
(1,1233)	1:99:A:LEU:HD22	1:80:A:ALA:HA	3	0.13
(1,1233)	1:99:A:LEU:HD23	1:80:A:ALA:HA	3	0.13
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD21	3	0.13
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD22	3	0.13
(1,1232)	1:80:A:ALA:HA	1:99:A:LEU:HD23	3	0.13
(1,1216)	1:97:A:ASN:H	1:98:A:ASN:H	3	0.13
(1,1215)	1:98:A:ASN:H	1:97:A:ASN:H	3	0.13
(1,1201)	1:97:A:ASN:HA	1:97:A:ASN:HB2	6	0.13
(1,1200)	1:97:A:ASN:HB2	1:97:A:ASN:HA	6	0.13
(1,1199)	1:97:A:ASN:HA	1:97:A:ASN:HB3	7	0.13
(1,1198)	1:97:A:ASN:HB3	1:97:A:ASN:HA	7	0.13
(1,1185)	1:96:A:LYS:HA	1:96:A:LYS:H	10	0.13
(1,1176)	1:95:A:THR:HA	1:96:A:LYS:H	1	0.13
(1,1170)	1:95:A:THR:HA	1:95:A:THR:H	7	0.13
(1,1170)	1:95:A:THR:HA	1:95:A:THR:H	9	0.13
(1,1170)	1:95:A:THR:HA	1:95:A:THR:H	10	0.13
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	1	0.13
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	3	0.13
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	10	0.13
(1,1095)	1:91:A:ASP:HB2	1:91:A:ASP:H	2	0.13
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	2	0.13
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	6	0.13
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	8	0.13
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	10	0.13
(1,907)	1:79:A:ASP:H	1:80:A:ALA:H	5	0.13
(1,907)	1:79:A:ASP:H	1:80:A:ALA:H	7	0.13
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	5	0.13
(1,867)	1:77:A:TRP:H	1:76:A:PHE:H	10	0.13
(1,866)	1:76:A:PHE:H	1:77:A:TRP:H	10	0.13
(1,826)	1:72:A:THR:HG21	1:75:A:SER:HB2	5	0.13
(1,826)	1:72:A:THR:HG22	1:75:A:SER:HB2	5	0.13
(1,826)	1:72:A:THR:HG23	1:75:A:SER:HB2	5	0.13
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG21	5	0.13
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG22	5	0.13
(1,825)	1:75:A:SER:HB2	1:72:A:THR:HG23	5	0.13
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	7	0.13
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	10	0.13
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	5	0.13
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	1	0.13
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	7	0.13
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	10	0.13
(1,727)	1:70:A:PHE:HA	1:70:A:PHE:H	1	0.13
(1,726)	1:70:A:PHE:HA	1:70:A:PHE:HB2	9	0.13
(1,725)	1:70:A:PHE:HB2	1:70:A:PHE:HA	9	0.13
(1,724)	1:70:A:PHE:HA	1:70:A:PHE:HB3	1	0.13
(1,724)	1:70:A:PHE:HA	1:70:A:PHE:HB3	3	0.13
(1,724)	1:70:A:PHE:HA	1:70:A:PHE:HB3	4	0.13
(1,724)	1:70:A:PHE:HA	1:70:A:PHE:HB3	6	0.13
(1,723)	1:70:A:PHE:HB3	1:70:A:PHE:HA	1	0.13
(1,723)	1:70:A:PHE:HB3	1:70:A:PHE:HA	3	0.13
(1,723)	1:70:A:PHE:HB3	1:70:A:PHE:HA	4	0.13
(1,723)	1:70:A:PHE:HB3	1:70:A:PHE:HA	6	0.13
(1,702)	1:69:A:GLN:HA	1:69:A:GLN:HB2	1	0.13
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	6	0.13
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	8	0.13
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	10	0.13
(1,633)	1:66:A:ASN:HA	1:66:A:ASN:H	2	0.13
(1,633)	1:66:A:ASN:HA	1:66:A:ASN:H	9	0.13
(1,628)	1:65:A:GLU:H	1:66:A:ASN:H	7	0.13
(1,627)	1:66:A:ASN:H	1:65:A:GLU:H	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,611)	1:65:A:GLU:HB2	1:65:A:GLU:HA	8	0.13
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	7	0.13
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	7	0.13
(1,582)	1:64:A:ARG:H	1:63:A:ARG:H	7	0.13
(1,581)	1:63:A:ARG:H	1:64:A:ARG:H	7	0.13
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	6	0.13
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	2	0.13
(1,514)	1:59:A:ALA:HA	1:62:A:ASN:H	10	0.13
(1,466)	1:60:A:LEU:HA	1:60:A:LEU:H	4	0.13
(1,377)	1:55:A:TYR:HE1	1:58:A:LYS:HB3	3	0.13
(1,377)	1:55:A:TYR:HE2	1:58:A:LYS:HB3	3	0.13
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	2	0.13
(1,310)	1:53:A:HIS:HB3	1:56:A:VAL:HB	2	0.13
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	3	0.13
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	10	0.13
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	6	0.13
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	8	0.13
(1,194)	1:51:A:GLN:HA	1:51:A:GLN:HB2	4	0.13
(1,194)	1:51:A:GLN:HA	1:51:A:GLN:HB2	7	0.13
(1,194)	1:51:A:GLN:HA	1:51:A:GLN:HB2	10	0.13
(1,193)	1:51:A:GLN:HB2	1:51:A:GLN:HA	4	0.13
(1,193)	1:51:A:GLN:HB2	1:51:A:GLN:HA	7	0.13
(1,193)	1:51:A:GLN:HB2	1:51:A:GLN:HA	10	0.13
(1,192)	1:51:A:GLN:HA	1:51:A:GLN:HB3	2	0.13
(1,191)	1:51:A:GLN:HB3	1:51:A:GLN:HA	2	0.13
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	1	0.13
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	8	0.13
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	3	0.13
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	3	0.13
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	3	0.13
(1,169)	1:47:A:ILE:HG21	1:51:A:GLN:HG3	6	0.13
(1,169)	1:47:A:ILE:HG22	1:51:A:GLN:HG3	6	0.13
(1,169)	1:47:A:ILE:HG23	1:51:A:GLN:HG3	6	0.13
(1,148)	1:47:A:ILE:HB	1:50:A:GLU:H	5	0.13
(1,122)	1:49:A:ILE:HA	1:49:A:ILE:H	5	0.13
(1,99)	1:49:A:ILE:HD11	1:46:A:ASP:HB3	5	0.13
(1,99)	1:49:A:ILE:HD12	1:46:A:ASP:HB3	5	0.13
(1,99)	1:49:A:ILE:HD13	1:46:A:ASP:HB3	5	0.13
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB1	7	0.13
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB2	7	0.13
(1,73)	1:44:A:GLN:HG2	1:48:A:ALA:HB3	7	0.13
(1,72)	1:48:A:ALA:HB1	1:44:A:GLN:HG2	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,72)	1:48:A:ALA:HB2	1:44:A:GLN:HG2	7	0.13
(1,72)	1:48:A:ALA:HB3	1:44:A:GLN:HG2	7	0.13
(1,35)	1:46:A:ASP:HA	1:46:A:ASP:H	10	0.13
(1,27)	1:45:A:ASP:HA	1:46:A:ASP:H	2	0.13
(1,23)	1:43:A:HIS:HA	1:46:A:ASP:H	4	0.13
(2,25)	1:171:A:ILE:H	1:198:A:ASP:O	8	0.12
(2,8)	1:116:A:ASP:N	1:119:A:GLY:O	9	0.12
(2,2)	1:111:A:GLY:N	1:197:A:VAL:O	2	0.12
(2,2)	1:111:A:GLY:N	1:197:A:VAL:O	10	0.12
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	1	0.12
(1,5149)	1:241:A:ALA:HB1	1:243:A:VAL:H	10	0.12
(1,5149)	1:241:A:ALA:HB2	1:243:A:VAL:H	10	0.12
(1,5149)	1:241:A:ALA:HB3	1:243:A:VAL:H	10	0.12
(1,5148)	1:243:A:VAL:HG21	1:229:A:GLU:H	9	0.12
(1,5148)	1:243:A:VAL:HG22	1:229:A:GLU:H	9	0.12
(1,5148)	1:243:A:VAL:HG23	1:229:A:GLU:H	9	0.12
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	8	0.12
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	9	0.12
(1,5047)	1:214:A:ILE:HD11	1:242:A:TRP:HD1	9	0.12
(1,5047)	1:214:A:ILE:HD12	1:242:A:TRP:HD1	9	0.12
(1,5047)	1:214:A:ILE:HD13	1:242:A:TRP:HD1	9	0.12
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD11	9	0.12
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD12	9	0.12
(1,5046)	1:242:A:TRP:HD1	1:214:A:ILE:HD13	9	0.12
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	1	0.12
(1,4611)	1:229:A:GLU:HA	1:229:A:GLU:H	5	0.12
(1,4600)	1:229:A:GLU:HA	1:228:A:LYS:H	3	0.12
(1,4600)	1:229:A:GLU:HA	1:228:A:LYS:H	4	0.12
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	8	0.12
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	8	0.12
(1,4599)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	8	0.12
(1,4598)	1:225:A:ALA:HB1	1:229:A:GLU:HG2	8	0.12
(1,4598)	1:225:A:ALA:HB2	1:229:A:GLU:HG2	8	0.12
(1,4598)	1:225:A:ALA:HB3	1:229:A:GLU:HG2	8	0.12
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB1	8	0.12
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB2	8	0.12
(1,4597)	1:229:A:GLU:HG2	1:225:A:ALA:HB3	8	0.12
(1,4587)	1:228:A:LYS:HA	1:228:A:LYS:H	10	0.12
(1,4565)	1:227:A:ASP:HA	1:227:A:ASP:H	9	0.12
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	1	0.12
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	7	0.12
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	10	0.12
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	4	0.12
(1,4469)	1:219:A:LEU:HA	1:219:A:LEU:H	1	0.12
(1,4443)	1:218:A:HIS:HA	1:218:A:HIS:H	5	0.12
(1,4417)	1:217:A:LEU:HA	1:216:A:ASN:H	5	0.12
(1,4382)	1:205:A:LEU:HD11	1:217:A:LEU:HG	3	0.12
(1,4382)	1:205:A:LEU:HD12	1:217:A:LEU:HG	3	0.12
(1,4382)	1:205:A:LEU:HD13	1:217:A:LEU:HG	3	0.12
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD11	3	0.12
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD12	3	0.12
(1,4381)	1:217:A:LEU:HG	1:205:A:LEU:HD13	3	0.12
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD1	5	0.12
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD2	5	0.12
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD1	10	0.12
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD2	10	0.12
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	2	0.12
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	3	0.12
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	4	0.12
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	5	0.12
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	6	0.12
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	7	0.12
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	8	0.12
(1,4184)	1:211:A:ASP:HA	1:211:A:ASP:HB2	10	0.12
(1,4183)	1:211:A:ASP:HB2	1:211:A:ASP:HA	10	0.12
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	3	0.12
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	4	0.12
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	3	0.12
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	4	0.12
(1,4169)	1:208:A:LEU:HD21	1:211:A:ASP:HB2	3	0.12
(1,4169)	1:208:A:LEU:HD22	1:211:A:ASP:HB2	3	0.12
(1,4169)	1:208:A:LEU:HD23	1:211:A:ASP:HB2	3	0.12
(1,4169)	1:208:A:LEU:HD21	1:211:A:ASP:HB2	6	0.12
(1,4169)	1:208:A:LEU:HD22	1:211:A:ASP:HB2	6	0.12
(1,4169)	1:208:A:LEU:HD23	1:211:A:ASP:HB2	6	0.12
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD21	3	0.12
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD22	3	0.12
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD23	3	0.12
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD21	6	0.12
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD22	6	0.12
(1,4168)	1:211:A:ASP:HB2	1:208:A:LEU:HD23	6	0.12
(1,4165)	1:207:A:LYS:HG3	1:211:A:ASP:H	5	0.12
(1,4165)	1:207:A:LYS:HG3	1:211:A:ASP:H	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4150)	1:207:A:LYS:HA	1:210:A:GLY:H	4	0.12
(1,4050)	1:207:A:LYS:HA	1:207:A:LYS:H	9	0.12
(1,4045)	1:207:A:LYS:H	1:206:A:ALA:H	10	0.12
(1,4044)	1:206:A:ALA:H	1:207:A:LYS:H	10	0.12
(1,3937)	1:204:A:LYS:HE2	1:201:A:THR:H	5	0.12
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	2	0.12
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	5	0.12
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	7	0.12
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	1	0.12
(1,3830)	1:199:A:ARG:HA	1:199:A:ARG:H	7	0.12
(1,3817)	1:197:A:VAL:HG11	1:199:A:ARG:HD2	7	0.12
(1,3817)	1:197:A:VAL:HG12	1:199:A:ARG:HD2	7	0.12
(1,3817)	1:197:A:VAL:HG13	1:199:A:ARG:HD2	7	0.12
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG11	7	0.12
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG12	7	0.12
(1,3816)	1:199:A:ARG:HD2	1:197:A:VAL:HG13	7	0.12
(1,3754)	1:197:A:VAL:HG21	1:172:A:LEU:H	1	0.12
(1,3754)	1:197:A:VAL:HG22	1:172:A:LEU:H	1	0.12
(1,3754)	1:197:A:VAL:HG23	1:172:A:LEU:H	1	0.12
(1,3754)	1:197:A:VAL:HG21	1:172:A:LEU:H	6	0.12
(1,3754)	1:197:A:VAL:HG22	1:172:A:LEU:H	6	0.12
(1,3754)	1:197:A:VAL:HG23	1:172:A:LEU:H	6	0.12
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG11	2	0.12
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG12	2	0.12
(1,3468)	1:146:A:LEU:HD11	1:193:A:VAL:HG13	2	0.12
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG11	2	0.12
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG12	2	0.12
(1,3468)	1:146:A:LEU:HD12	1:193:A:VAL:HG13	2	0.12
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG11	2	0.12
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG12	2	0.12
(1,3468)	1:146:A:LEU:HD13	1:193:A:VAL:HG13	2	0.12
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD11	2	0.12
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD12	2	0.12
(1,3467)	1:193:A:VAL:HG11	1:146:A:LEU:HD13	2	0.12
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD11	2	0.12
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD12	2	0.12
(1,3467)	1:193:A:VAL:HG12	1:146:A:LEU:HD13	2	0.12
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD11	2	0.12
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD12	2	0.12
(1,3467)	1:193:A:VAL:HG13	1:146:A:LEU:HD13	2	0.12
(1,3458)	1:115:A:ILE:H	1:193:A:VAL:H	8	0.12
(1,3457)	1:193:A:VAL:H	1:115:A:ILE:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3397)	1:191:A:ALA:HB1	1:150:A:ARG:HE	5	0.12
(1,3397)	1:191:A:ALA:HB2	1:150:A:ARG:HE	5	0.12
(1,3397)	1:191:A:ALA:HB3	1:150:A:ARG:HE	5	0.12
(1,3379)	1:189:A:ALA:HB1	1:190:A:LYS:HD2	3	0.12
(1,3379)	1:189:A:ALA:HB2	1:190:A:LYS:HD2	3	0.12
(1,3379)	1:189:A:ALA:HB3	1:190:A:LYS:HD2	3	0.12
(1,3378)	1:190:A:LYS:HD2	1:189:A:ALA:HB1	3	0.12
(1,3378)	1:190:A:LYS:HD2	1:189:A:ALA:HB2	3	0.12
(1,3378)	1:190:A:LYS:HD2	1:189:A:ALA:HB3	3	0.12
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	3	0.12
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	3	0.12
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	3	0.12
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	3	0.12
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	3	0.12
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	3	0.12
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	3	0.12
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	3	0.12
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	3	0.12
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD21	5	0.12
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD22	5	0.12
(1,3321)	1:154:A:VAL:HG21	1:188:A:LEU:HD23	5	0.12
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD21	5	0.12
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD22	5	0.12
(1,3321)	1:154:A:VAL:HG22	1:188:A:LEU:HD23	5	0.12
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD21	5	0.12
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD22	5	0.12
(1,3321)	1:154:A:VAL:HG23	1:188:A:LEU:HD23	5	0.12
(1,3202)	1:182:A:ASP:HA	1:182:A:ASP:H	10	0.12
(1,3178)	1:180:A:THR:HA	1:180:A:THR:H	7	0.12
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	3	0.12
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	10	0.12
(1,3029)	1:161:A:ARG:H	1:174:A:ALA:H	6	0.12
(1,3028)	1:174:A:ALA:H	1:161:A:ARG:H	6	0.12
(1,3027)	1:160:A:SER:HA	1:174:A:ALA:H	5	0.12
(1,2975)	1:173:A:VAL:HG21	1:109:A:TYR:HE1	1	0.12
(1,2975)	1:173:A:VAL:HG21	1:109:A:TYR:HE2	1	0.12
(1,2975)	1:173:A:VAL:HG22	1:109:A:TYR:HE1	1	0.12
(1,2975)	1:173:A:VAL:HG22	1:109:A:TYR:HE2	1	0.12
(1,2975)	1:173:A:VAL:HG23	1:109:A:TYR:HE1	1	0.12
(1,2975)	1:173:A:VAL:HG23	1:109:A:TYR:HE2	1	0.12
(1,2975)	1:173:A:VAL:HG21	1:109:A:TYR:HE1	10	0.12
(1,2975)	1:173:A:VAL:HG21	1:109:A:TYR:HE2	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2975)	1:173:A:VAL:HG22	1:109:A:TYR:HE1	10	0.12
(1,2975)	1:173:A:VAL:HG22	1:109:A:TYR:HE2	10	0.12
(1,2975)	1:173:A:VAL:HG23	1:109:A:TYR:HE1	10	0.12
(1,2975)	1:173:A:VAL:HG23	1:109:A:TYR:HE2	10	0.12
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG21	1	0.12
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG22	1	0.12
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG23	1	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG21	1	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG22	1	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG23	1	0.12
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG21	10	0.12
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG22	10	0.12
(1,2974)	1:109:A:TYR:HE1	1:173:A:VAL:HG23	10	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG21	10	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG22	10	0.12
(1,2974)	1:109:A:TYR:HE2	1:173:A:VAL:HG23	10	0.12
(1,2936)	1:163:A:VAL:HG21	1:172:A:LEU:HG	10	0.12
(1,2936)	1:163:A:VAL:HG22	1:172:A:LEU:HG	10	0.12
(1,2936)	1:163:A:VAL:HG23	1:172:A:LEU:HG	10	0.12
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG21	10	0.12
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG22	10	0.12
(1,2935)	1:172:A:LEU:HG	1:163:A:VAL:HG23	10	0.12
(1,2908)	1:172:A:LEU:HD21	1:142:A:THR:HG21	4	0.12
(1,2908)	1:172:A:LEU:HD21	1:142:A:THR:HG22	4	0.12
(1,2908)	1:172:A:LEU:HD21	1:142:A:THR:HG23	4	0.12
(1,2908)	1:172:A:LEU:HD22	1:142:A:THR:HG21	4	0.12
(1,2908)	1:172:A:LEU:HD22	1:142:A:THR:HG22	4	0.12
(1,2908)	1:172:A:LEU:HD22	1:142:A:THR:HG23	4	0.12
(1,2908)	1:172:A:LEU:HD23	1:142:A:THR:HG21	4	0.12
(1,2908)	1:172:A:LEU:HD23	1:142:A:THR:HG22	4	0.12
(1,2908)	1:172:A:LEU:HD23	1:142:A:THR:HG23	4	0.12
(1,2907)	1:142:A:THR:HG21	1:172:A:LEU:HD21	4	0.12
(1,2907)	1:142:A:THR:HG21	1:172:A:LEU:HD22	4	0.12
(1,2907)	1:142:A:THR:HG21	1:172:A:LEU:HD23	4	0.12
(1,2907)	1:142:A:THR:HG22	1:172:A:LEU:HD21	4	0.12
(1,2907)	1:142:A:THR:HG22	1:172:A:LEU:HD22	4	0.12
(1,2907)	1:142:A:THR:HG22	1:172:A:LEU:HD23	4	0.12
(1,2907)	1:142:A:THR:HG23	1:172:A:LEU:HD21	4	0.12
(1,2907)	1:142:A:THR:HG23	1:172:A:LEU:HD22	4	0.12
(1,2907)	1:142:A:THR:HG23	1:172:A:LEU:HD23	4	0.12
(1,2853)	1:171:A:ILE:HG21	1:64:A:ARG:HD2	10	0.12
(1,2853)	1:171:A:ILE:HG22	1:64:A:ARG:HD2	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2853)	1:171:A:ILE:HG23	1:64:A:ARG:HD2	10	0.12
(1,2814)	1:168:A:ALA:HB1	1:170:A:ALA:H	9	0.12
(1,2814)	1:168:A:ALA:HB2	1:170:A:ALA:H	9	0.12
(1,2814)	1:168:A:ALA:HB3	1:170:A:ALA:H	9	0.12
(1,2784)	1:168:A:ALA:HA	1:168:A:ALA:H	3	0.12
(1,2780)	1:167:A:GLY:HA2	1:168:A:ALA:H	1	0.12
(1,2770)	1:164:A:ASP:HA	1:168:A:ALA:H	3	0.12
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	7	0.12
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	7	0.12
(1,2636)	1:145:A:ILE:HD11	1:161:A:ARG:HG2	5	0.12
(1,2636)	1:145:A:ILE:HD12	1:161:A:ARG:HG2	5	0.12
(1,2636)	1:145:A:ILE:HD13	1:161:A:ARG:HG2	5	0.12
(1,2635)	1:161:A:ARG:HG2	1:145:A:ILE:HD11	5	0.12
(1,2635)	1:161:A:ARG:HG2	1:145:A:ILE:HD12	5	0.12
(1,2635)	1:161:A:ARG:HG2	1:145:A:ILE:HD13	5	0.12
(1,2612)	1:157:A:ALA:HB1	1:159:A:ILE:H	9	0.12
(1,2612)	1:157:A:ALA:HB2	1:159:A:ILE:H	9	0.12
(1,2612)	1:157:A:ALA:HB3	1:159:A:ILE:H	9	0.12
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG21	2	0.12
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG22	2	0.12
(1,2578)	1:145:A:ILE:HD11	1:159:A:ILE:HG23	2	0.12
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG21	2	0.12
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG22	2	0.12
(1,2578)	1:145:A:ILE:HD12	1:159:A:ILE:HG23	2	0.12
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG21	2	0.12
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG22	2	0.12
(1,2578)	1:145:A:ILE:HD13	1:159:A:ILE:HG23	2	0.12
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD11	2	0.12
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD12	2	0.12
(1,2577)	1:159:A:ILE:HG21	1:145:A:ILE:HD13	2	0.12
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD11	2	0.12
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD12	2	0.12
(1,2577)	1:159:A:ILE:HG22	1:145:A:ILE:HD13	2	0.12
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD11	2	0.12
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD12	2	0.12
(1,2577)	1:159:A:ILE:HG23	1:145:A:ILE:HD13	2	0.12
(1,2544)	1:156:A:GLU:H	1:157:A:ALA:H	5	0.12
(1,2521)	1:156:A:GLU:HA	1:156:A:GLU:HB2	1	0.12
(1,2520)	1:156:A:GLU:HB2	1:156:A:GLU:HA	1	0.12
(1,2377)	1:149:A:ALA:H	1:150:A:ARG:H	6	0.12
(1,2377)	1:149:A:ALA:H	1:150:A:ARG:H	10	0.12
(1,2376)	1:150:A:ARG:H	1:149:A:ALA:H	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2376)	1:150:A:ARG:H	1:149:A:ALA:H	10	0.12
(1,2339)	1:148:A:SER:HA	1:148:A:SER:H	9	0.12
(1,2315)	1:147:A:ARG:HA	1:147:A:ARG:H	1	0.12
(1,2315)	1:147:A:ARG:HA	1:147:A:ARG:H	2	0.12
(1,2287)	1:146:A:LEU:HA	1:146:A:LEU:HB2	4	0.12
(1,2286)	1:146:A:LEU:HB2	1:146:A:LEU:HA	4	0.12
(1,2272)	1:146:A:LEU:HD11	1:143:A:GLY:H	1	0.12
(1,2272)	1:146:A:LEU:HD12	1:143:A:GLY:H	1	0.12
(1,2272)	1:146:A:LEU:HD13	1:143:A:GLY:H	1	0.12
(1,2272)	1:146:A:LEU:HD11	1:143:A:GLY:H	7	0.12
(1,2272)	1:146:A:LEU:HD12	1:143:A:GLY:H	7	0.12
(1,2272)	1:146:A:LEU:HD13	1:143:A:GLY:H	7	0.12
(1,2174)	1:141:A:ASP:HA	1:144:A:ASP:H	10	0.12
(1,2161)	1:142:A:THR:HA	1:142:A:THR:H	5	0.12
(1,2132)	1:141:A:ASP:HA	1:141:A:ASP:H	1	0.12
(1,2132)	1:141:A:ASP:HA	1:141:A:ASP:H	4	0.12
(1,2126)	1:140:A:ALA:HA	1:140:A:ALA:H	3	0.12
(1,2023)	1:135:A:ALA:HA	1:135:A:ALA:H	8	0.12
(1,2023)	1:135:A:ALA:HA	1:135:A:ALA:H	10	0.12
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG21	3	0.12
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG22	3	0.12
(1,1999)	1:134:A:LEU:HA	1:120:A:THR:HG23	3	0.12
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	4	0.12
(1,1957)	1:132:A:ARG:HB2	1:132:A:ARG:HA	10	0.12
(1,1934)	1:125:A:LEU:HD21	1:132:A:ARG:HA	7	0.12
(1,1934)	1:125:A:LEU:HD22	1:132:A:ARG:HA	7	0.12
(1,1934)	1:125:A:LEU:HD23	1:132:A:ARG:HA	7	0.12
(1,1934)	1:125:A:LEU:HD21	1:132:A:ARG:HA	10	0.12
(1,1934)	1:125:A:LEU:HD22	1:132:A:ARG:HA	10	0.12
(1,1934)	1:125:A:LEU:HD23	1:132:A:ARG:HA	10	0.12
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD21	7	0.12
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD22	7	0.12
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD23	7	0.12
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD21	10	0.12
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD22	10	0.12
(1,1933)	1:132:A:ARG:HA	1:125:A:LEU:HD23	10	0.12
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	4	0.12
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	9	0.12
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	10	0.12
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	6	0.12
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	6	0.12
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1809)	1:125:A:LEU:HA	1:125:A:LEU:H	3	0.12
(1,1765)	1:112:A:VAL:H	1:124:A:MET:H	5	0.12
(1,1764)	1:124:A:MET:H	1:112:A:VAL:H	5	0.12
(1,1546)	1:115:A:ILE:HB	1:115:A:ILE:HA	8	0.12
(1,1545)	1:115:A:ILE:HA	1:115:A:ILE:HB	8	0.12
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG21	3	0.12
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG22	3	0.12
(1,1526)	1:88:A:VAL:HG21	1:114:A:VAL:HG23	3	0.12
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG21	3	0.12
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG22	3	0.12
(1,1526)	1:88:A:VAL:HG22	1:114:A:VAL:HG23	3	0.12
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG21	3	0.12
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG22	3	0.12
(1,1526)	1:88:A:VAL:HG23	1:114:A:VAL:HG23	3	0.12
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG21	3	0.12
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG22	3	0.12
(1,1525)	1:114:A:VAL:HG21	1:88:A:VAL:HG23	3	0.12
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG21	3	0.12
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG22	3	0.12
(1,1525)	1:114:A:VAL:HG22	1:88:A:VAL:HG23	3	0.12
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG21	3	0.12
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG22	3	0.12
(1,1525)	1:114:A:VAL:HG23	1:88:A:VAL:HG23	3	0.12
(1,1427)	1:103:A:LEU:HD21	1:107:A:ASN:H	8	0.12
(1,1427)	1:103:A:LEU:HD22	1:107:A:ASN:H	8	0.12
(1,1427)	1:103:A:LEU:HD23	1:107:A:ASN:H	8	0.12
(1,1358)	1:102:A:VAL:HG11	1:104:A:TYR:H	8	0.12
(1,1358)	1:102:A:VAL:HG12	1:104:A:TYR:H	8	0.12
(1,1358)	1:102:A:VAL:HG13	1:104:A:TYR:H	8	0.12
(1,1351)	1:103:A:LEU:HB3	1:103:A:LEU:H	6	0.12
(1,1351)	1:103:A:LEU:HB3	1:103:A:LEU:H	7	0.12
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	5	0.12
(1,1348)	1:102:A:VAL:H	1:103:A:LEU:H	9	0.12
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	5	0.12
(1,1347)	1:103:A:LEU:H	1:102:A:VAL:H	9	0.12
(1,1301)	1:102:A:VAL:H	1:101:A:SER:H	8	0.12
(1,1300)	1:101:A:SER:H	1:102:A:VAL:H	8	0.12
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	1	0.12
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	4	0.12
(1,1221)	1:98:A:ASN:HA	1:98:A:ASN:H	8	0.12
(1,1184)	1:96:A:LYS:HA	1:96:A:LYS:HB2	10	0.12
(1,1183)	1:96:A:LYS:HB2	1:96:A:LYS:HA	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1154)	1:94:A:PHE:HA	1:94:A:PHE:H	9	0.12
(1,1151)	1:93:A:ALA:H	1:94:A:PHE:H	6	0.12
(1,1150)	1:94:A:PHE:H	1:93:A:ALA:H	6	0.12
(1,1108)	1:91:A:ASP:HA	1:92:A:TRP:H	4	0.12
(1,1091)	1:90:A:ALA:H	1:91:A:ASP:H	1	0.12
(1,1090)	1:91:A:ASP:H	1:90:A:ALA:H	1	0.12
(1,1088)	1:90:A:ALA:HA	1:91:A:ASP:H	5	0.12
(1,1035)	1:87:A:ARG:HA	1:87:A:ARG:H	5	0.12
(1,1025)	1:86:A:ASN:HB2	1:86:A:ASN:H	4	0.12
(1,1018)	1:86:A:ASN:HB3	1:86:A:ASN:HA	10	0.12
(1,1017)	1:86:A:ASN:HA	1:86:A:ASN:HB3	10	0.12
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	2	0.12
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	8	0.12
(1,923)	1:81:A:TYR:HB3	1:81:A:TYR:HA	10	0.12
(1,922)	1:81:A:TYR:HA	1:81:A:TYR:HB3	10	0.12
(1,893)	1:79:A:ASP:HA	1:79:A:ASP:HB3	5	0.12
(1,892)	1:79:A:ASP:HB3	1:79:A:ASP:HA	5	0.12
(1,867)	1:77:A:TRP:H	1:76:A:PHE:H	2	0.12
(1,866)	1:76:A:PHE:H	1:77:A:TRP:H	2	0.12
(1,857)	1:76:A:PHE:HA	1:76:A:PHE:H	1	0.12
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	8	0.12
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD1	7	0.12
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD2	7	0.12
(1,796)	1:74:A:TYR:HD1	1:71:A:SER:HA	7	0.12
(1,796)	1:74:A:TYR:HD2	1:71:A:SER:HA	7	0.12
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE1	2	0.12
(1,788)	1:70:A:PHE:HA	1:74:A:TYR:HE2	2	0.12
(1,702)	1:69:A:GLN:HA	1:69:A:GLN:HB2	2	0.12
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	3	0.12
(1,633)	1:66:A:ASN:HA	1:66:A:ASN:H	1	0.12
(1,630)	1:66:A:ASN:HB3	1:66:A:ASN:HA	8	0.12
(1,629)	1:66:A:ASN:HA	1:66:A:ASN:HB3	8	0.12
(1,611)	1:65:A:GLU:HB2	1:65:A:GLU:HA	6	0.12
(1,610)	1:65:A:GLU:HA	1:65:A:GLU:HB3	5	0.12
(1,609)	1:65:A:GLU:HB3	1:65:A:GLU:HA	5	0.12
(1,596)	1:62:A:ASN:HB2	1:65:A:GLU:HB2	6	0.12
(1,595)	1:65:A:GLU:HB2	1:62:A:ASN:HB2	6	0.12
(1,555)	1:63:A:ARG:HA	1:63:A:ARG:HB3	3	0.12
(1,554)	1:63:A:ARG:HB3	1:63:A:ARG:HA	3	0.12
(1,552)	1:62:A:ASN:H	1:63:A:ARG:H	5	0.12
(1,552)	1:62:A:ASN:H	1:63:A:ARG:H	9	0.12
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	8	0.12
(1,508)	1:59:A:ALA:HB1	1:62:A:ASN:HB3	7	0.12
(1,508)	1:59:A:ALA:HB2	1:62:A:ASN:HB3	7	0.12
(1,508)	1:59:A:ALA:HB3	1:62:A:ASN:HB3	7	0.12
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB1	7	0.12
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB2	7	0.12
(1,507)	1:62:A:ASN:HB3	1:59:A:ALA:HB3	7	0.12
(1,466)	1:60:A:LEU:HA	1:60:A:LEU:H	1	0.12
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	5	0.12
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	5	0.12
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	5	0.12
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	5	0.12
(1,356)	1:57:A:GLU:HA	1:57:A:GLU:H	4	0.12
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	1	0.12
(1,248)	1:54:A:PHE:HB3	1:51:A:GLN:HB2	3	0.12
(1,235)	1:53:A:HIS:HA	1:53:A:HIS:H	4	0.12
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	4	0.12
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	7	0.12
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	3	0.12
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	9	0.12
(1,194)	1:51:A:GLN:HA	1:51:A:GLN:HB2	6	0.12
(1,193)	1:51:A:GLN:HB2	1:51:A:GLN:HA	6	0.12
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	7	0.12
(1,186)	1:50:A:GLU:HA	1:51:A:GLN:H	10	0.12
(1,118)	1:49:A:ILE:H	1:48:A:ALA:H	8	0.12
(1,93)	1:45:A:ASP:HA	1:49:A:ILE:H	7	0.12
(1,14)	1:45:A:ASP:H	1:44:A:GLN:H	10	0.12
(1,13)	1:44:A:GLN:H	1:45:A:ASP:H	10	0.12
(2,13)	1:159:A:ILE:H	1:174:A:ALA:O	6	0.11
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	6	0.11
(1,5221)	1:246:A:ARG:HA	1:246:A:ARG:H	10	0.11
(1,5211)	1:49:A:ILE:HG21	1:246:A:ARG:HD3	2	0.11
(1,5211)	1:49:A:ILE:HG22	1:246:A:ARG:HD3	2	0.11
(1,5211)	1:49:A:ILE:HG23	1:246:A:ARG:HD3	2	0.11
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG21	2	0.11
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG22	2	0.11
(1,5210)	1:246:A:ARG:HD3	1:49:A:ILE:HG23	2	0.11
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	2	0.11
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	3	0.11
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	4	0.11
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	5	0.11
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	10	0.11
(1,5052)	1:214:A:ILE:HG21	1:242:A:TRP:H	9	0.11
(1,5052)	1:214:A:ILE:HG22	1:242:A:TRP:H	9	0.11
(1,5052)	1:214:A:ILE:HG23	1:242:A:TRP:H	9	0.11
(1,4987)	1:219:A:LEU:HA	1:241:A:ALA:H	7	0.11
(1,4737)	1:233:A:LEU:HA	1:233:A:LEU:H	8	0.11
(1,4713)	1:233:A:LEU:HD21	1:162:A:TYR:HE1	1	0.11
(1,4713)	1:233:A:LEU:HD21	1:162:A:TYR:HE2	1	0.11
(1,4713)	1:233:A:LEU:HD22	1:162:A:TYR:HE1	1	0.11
(1,4713)	1:233:A:LEU:HD22	1:162:A:TYR:HE2	1	0.11
(1,4713)	1:233:A:LEU:HD23	1:162:A:TYR:HE1	1	0.11
(1,4713)	1:233:A:LEU:HD23	1:162:A:TYR:HE2	1	0.11
(1,4639)	1:231:A:LEU:HD11	1:56:A:VAL:HA	1	0.11
(1,4639)	1:231:A:LEU:HD12	1:56:A:VAL:HA	1	0.11
(1,4639)	1:231:A:LEU:HD13	1:56:A:VAL:HA	1	0.11
(1,4639)	1:231:A:LEU:HD11	1:56:A:VAL:HA	6	0.11
(1,4639)	1:231:A:LEU:HD12	1:56:A:VAL:HA	6	0.11
(1,4639)	1:231:A:LEU:HD13	1:56:A:VAL:HA	6	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD11	1	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD12	1	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD13	1	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD11	6	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD12	6	0.11
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD13	6	0.11
(1,4600)	1:229:A:GLU:HA	1:228:A:LYS:H	7	0.11
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	5	0.11
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	5	0.11
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	8	0.11
(1,4515)	1:222:A:GLY:HA3	1:222:A:GLY:H	9	0.11
(1,4487)	1:220:A:LEU:HB2	1:220:A:LEU:HA	2	0.11
(1,4485)	1:220:A:LEU:HB3	1:220:A:LEU:HA	3	0.11
(1,4468)	1:219:A:LEU:HA	1:219:A:LEU:HB2	2	0.11
(1,4468)	1:219:A:LEU:HA	1:219:A:LEU:HB2	4	0.11
(1,4357)	1:215:A:ALA:HA	1:216:A:ASN:H	9	0.11
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	7	0.11
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	7	0.11
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	7	0.11
(1,4307)	1:214:A:ILE:HG21	1:210:A:GLY:H	10	0.11
(1,4307)	1:214:A:ILE:HG22	1:210:A:GLY:H	10	0.11
(1,4307)	1:214:A:ILE:HG23	1:210:A:GLY:H	10	0.11
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD1	4	0.11
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD2	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4185)	1:211:A:ASP:HA	1:211:A:ASP:H	10	0.11
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	1	0.11
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	9	0.11
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	1	0.11
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	9	0.11
(1,4165)	1:207:A:LYS:HG3	1:211:A:ASP:H	8	0.11
(1,4091)	1:208:A:LEU:HD21	1:63:A:ARG:H	4	0.11
(1,4091)	1:208:A:LEU:HD22	1:63:A:ARG:H	4	0.11
(1,4091)	1:208:A:LEU:HD23	1:63:A:ARG:H	4	0.11
(1,4084)	1:208:A:LEU:HD11	1:63:A:ARG:H	4	0.11
(1,4084)	1:208:A:LEU:HD12	1:63:A:ARG:H	4	0.11
(1,4084)	1:208:A:LEU:HD13	1:63:A:ARG:H	4	0.11
(1,4045)	1:207:A:LYS:H	1:206:A:ALA:H	1	0.11
(1,4045)	1:207:A:LYS:H	1:206:A:ALA:H	6	0.11
(1,4044)	1:206:A:ALA:H	1:207:A:LYS:H	1	0.11
(1,4044)	1:206:A:ALA:H	1:207:A:LYS:H	6	0.11
(1,4013)	1:205:A:LEU:H	1:206:A:ALA:H	9	0.11
(1,4012)	1:206:A:ALA:H	1:205:A:LEU:H	9	0.11
(1,3974)	1:205:A:LEU:HD21	1:202:A:PRO:HD3	9	0.11
(1,3974)	1:205:A:LEU:HD22	1:202:A:PRO:HD3	9	0.11
(1,3974)	1:205:A:LEU:HD23	1:202:A:PRO:HD3	9	0.11
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD21	9	0.11
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD22	9	0.11
(1,3973)	1:202:A:PRO:HD3	1:205:A:LEU:HD23	9	0.11
(1,3930)	1:200:A:LEU:HA	1:204:A:LYS:H	2	0.11
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	6	0.11
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	8	0.11
(1,3876)	1:200:A:LEU:HA	1:200:A:LEU:H	10	0.11
(1,3836)	1:200:A:LEU:HD21	1:63:A:ARG:HE	6	0.11
(1,3836)	1:200:A:LEU:HD22	1:63:A:ARG:HE	6	0.11
(1,3836)	1:200:A:LEU:HD23	1:63:A:ARG:HE	6	0.11
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	7	0.11
(1,3592)	1:195:A:VAL:HG11	1:149:A:ALA:HA	8	0.11
(1,3592)	1:195:A:VAL:HG12	1:149:A:ALA:HA	8	0.11
(1,3592)	1:195:A:VAL:HG13	1:149:A:ALA:HA	8	0.11
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG11	8	0.11
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG12	8	0.11
(1,3591)	1:149:A:ALA:HA	1:195:A:VAL:HG13	8	0.11
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE1	7	0.11
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE2	7	0.11
(1,3530)	1:112:A:VAL:HG11	1:194:A:MET:HE3	7	0.11
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE1	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE2	7	0.11
(1,3530)	1:112:A:VAL:HG12	1:194:A:MET:HE3	7	0.11
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE1	7	0.11
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE2	7	0.11
(1,3530)	1:112:A:VAL:HG13	1:194:A:MET:HE3	7	0.11
(1,3503)	1:193:A:VAL:HA	1:193:A:VAL:HB	6	0.11
(1,3383)	1:189:A:ALA:HB1	1:190:A:LYS:HG2	1	0.11
(1,3383)	1:189:A:ALA:HB2	1:190:A:LYS:HG2	1	0.11
(1,3383)	1:189:A:ALA:HB3	1:190:A:LYS:HG2	1	0.11
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB1	1	0.11
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB2	1	0.11
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB3	1	0.11
(1,3369)	1:189:A:ALA:HA	1:189:A:ALA:H	1	0.11
(1,3369)	1:189:A:ALA:HA	1:189:A:ALA:H	4	0.11
(1,3356)	1:154:A:VAL:HG11	1:189:A:ALA:H	1	0.11
(1,3356)	1:154:A:VAL:HG12	1:189:A:ALA:H	1	0.11
(1,3356)	1:154:A:VAL:HG13	1:189:A:ALA:H	1	0.11
(1,3219)	1:183:A:HIS:H	1:182:A:ASP:H	1	0.11
(1,3219)	1:183:A:HIS:H	1:182:A:ASP:H	6	0.11
(1,3219)	1:183:A:HIS:H	1:182:A:ASP:H	8	0.11
(1,3218)	1:182:A:ASP:H	1:183:A:HIS:H	1	0.11
(1,3218)	1:182:A:ASP:H	1:183:A:HIS:H	6	0.11
(1,3218)	1:182:A:ASP:H	1:183:A:HIS:H	8	0.11
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG21	4	0.11
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG22	4	0.11
(1,3204)	1:183:A:HIS:HA	1:78:A:THR:HG23	4	0.11
(1,3202)	1:182:A:ASP:HA	1:182:A:ASP:H	9	0.11
(1,3199)	1:182:A:ASP:HA	1:182:A:ASP:HB3	7	0.11
(1,3198)	1:182:A:ASP:HB3	1:182:A:ASP:HA	7	0.11
(1,3176)	1:179:A:PRO:HD2	1:180:A:THR:H	9	0.11
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	6	0.11
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	6	0.11
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	6	0.11
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE1	6	0.11
(1,3088)	1:177:A:ILE:HG21	1:81:A:TYR:HE2	6	0.11
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE1	6	0.11
(1,3088)	1:177:A:ILE:HG22	1:81:A:TYR:HE2	6	0.11
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE1	6	0.11
(1,3088)	1:177:A:ILE:HG23	1:81:A:TYR:HE2	6	0.11
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG21	6	0.11
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG22	6	0.11
(1,3087)	1:81:A:TYR:HE1	1:177:A:ILE:HG23	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG21	6	0.11
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG22	6	0.11
(1,3087)	1:81:A:TYR:HE2	1:177:A:ILE:HG23	6	0.11
(1,3063)	1:176:A:ALA:HA	1:176:A:ALA:H	9	0.11
(1,2814)	1:168:A:ALA:HB1	1:170:A:ALA:H	6	0.11
(1,2814)	1:168:A:ALA:HB2	1:170:A:ALA:H	6	0.11
(1,2814)	1:168:A:ALA:HB3	1:170:A:ALA:H	6	0.11
(1,2814)	1:168:A:ALA:HB1	1:170:A:ALA:H	7	0.11
(1,2814)	1:168:A:ALA:HB2	1:170:A:ALA:H	7	0.11
(1,2814)	1:168:A:ALA:HB3	1:170:A:ALA:H	7	0.11
(1,2784)	1:168:A:ALA:HA	1:168:A:ALA:H	9	0.11
(1,2780)	1:167:A:GLY:HA2	1:168:A:ALA:H	10	0.11
(1,2759)	1:166:A:ASP:HB2	1:166:A:ASP:HA	8	0.11
(1,2758)	1:166:A:ASP:HA	1:166:A:ASP:HB2	8	0.11
(1,2687)	1:163:A:VAL:HG21	1:161:A:ARG:HB2	3	0.11
(1,2687)	1:163:A:VAL:HG22	1:161:A:ARG:HB2	3	0.11
(1,2687)	1:163:A:VAL:HG23	1:161:A:ARG:HB2	3	0.11
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG21	3	0.11
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG22	3	0.11
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG23	3	0.11
(1,2666)	1:162:A:TYR:HB3	1:162:A:TYR:HA	3	0.11
(1,2665)	1:162:A:TYR:HA	1:162:A:TYR:HB3	3	0.11
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE1	6	0.11
(1,2658)	1:60:A:LEU:HD21	1:162:A:TYR:HE2	6	0.11
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE1	6	0.11
(1,2658)	1:60:A:LEU:HD22	1:162:A:TYR:HE2	6	0.11
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE1	6	0.11
(1,2658)	1:60:A:LEU:HD23	1:162:A:TYR:HE2	6	0.11
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD21	6	0.11
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD22	6	0.11
(1,2657)	1:162:A:TYR:HE1	1:60:A:LEU:HD23	6	0.11
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD21	6	0.11
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD22	6	0.11
(1,2657)	1:162:A:TYR:HE2	1:60:A:LEU:HD23	6	0.11
(1,2650)	1:161:A:ARG:HA	1:161:A:ARG:H	8	0.11
(1,2541)	1:157:A:ALA:HA	1:156:A:GLU:H	2	0.11
(1,2532)	1:153:A:ALA:HB1	1:157:A:ALA:H	1	0.11
(1,2532)	1:153:A:ALA:HB2	1:157:A:ALA:H	1	0.11
(1,2532)	1:153:A:ALA:HB3	1:157:A:ALA:H	1	0.11
(1,2532)	1:153:A:ALA:HB1	1:157:A:ALA:H	5	0.11
(1,2532)	1:153:A:ALA:HB2	1:157:A:ALA:H	5	0.11
(1,2532)	1:153:A:ALA:HB3	1:157:A:ALA:H	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2521)	1:156:A:GLU:HA	1:156:A:GLU:HB2	6	0.11
(1,2520)	1:156:A:GLU:HB2	1:156:A:GLU:HA	6	0.11
(1,2519)	1:156:A:GLU:HA	1:156:A:GLU:HB3	4	0.11
(1,2518)	1:156:A:GLU:HB3	1:156:A:GLU:HA	4	0.11
(1,2486)	1:154:A:VAL:HA	1:154:A:VAL:H	3	0.11
(1,2443)	1:153:A:ALA:H	1:152:A:ALA:H	4	0.11
(1,2442)	1:152:A:ALA:H	1:153:A:ALA:H	4	0.11
(1,2406)	1:151:A:ARG:HA	1:151:A:ARG:HB3	9	0.11
(1,2405)	1:151:A:ARG:HB3	1:151:A:ARG:HA	9	0.11
(1,2369)	1:147:A:ARG:HA	1:150:A:ARG:H	5	0.11
(1,2339)	1:148:A:SER:HA	1:148:A:SER:H	5	0.11
(1,2315)	1:147:A:ARG:HA	1:147:A:ARG:H	4	0.11
(1,2315)	1:147:A:ARG:HA	1:147:A:ARG:H	5	0.11
(1,2315)	1:147:A:ARG:HA	1:147:A:ARG:H	10	0.11
(1,2229)	1:145:A:ILE:HA	1:145:A:ILE:H	6	0.11
(1,2174)	1:141:A:ASP:HA	1:144:A:ASP:H	4	0.11
(1,2132)	1:141:A:ASP:HA	1:141:A:ASP:H	6	0.11
(1,2132)	1:141:A:ASP:HA	1:141:A:ASP:H	9	0.11
(1,2061)	1:137:A:SER:HA	1:137:A:SER:H	10	0.11
(1,2023)	1:135:A:ALA:HA	1:135:A:ALA:H	1	0.11
(1,2023)	1:135:A:ALA:HA	1:135:A:ALA:H	2	0.11
(1,2023)	1:135:A:ALA:HA	1:135:A:ALA:H	6	0.11
(1,2023)	1:135:A:ALA:HA	1:135:A:ALA:H	9	0.11
(1,1972)	1:132:A:ARG:HD2	1:133:A:SER:H	2	0.11
(1,1967)	1:133:A:SER:HB2	1:120:A:THR:H	5	0.11
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	2	0.11
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	8	0.11
(1,1890)	1:129:A:LEU:HA	1:129:A:LEU:HB2	9	0.11
(1,1888)	1:129:A:LEU:HA	1:129:A:LEU:HB3	9	0.11
(1,1846)	1:125:A:LEU:HD11	1:128:A:GLU:H	9	0.11
(1,1846)	1:125:A:LEU:HD12	1:128:A:GLU:H	9	0.11
(1,1846)	1:125:A:LEU:HD13	1:128:A:GLU:H	9	0.11
(1,1808)	1:125:A:LEU:HB2	1:125:A:LEU:HA	5	0.11
(1,1808)	1:125:A:LEU:HB2	1:125:A:LEU:HA	9	0.11
(1,1807)	1:125:A:LEU:HA	1:125:A:LEU:HB2	5	0.11
(1,1807)	1:125:A:LEU:HA	1:125:A:LEU:HB2	9	0.11
(1,1806)	1:125:A:LEU:HB3	1:125:A:LEU:HA	1	0.11
(1,1805)	1:125:A:LEU:HA	1:125:A:LEU:HB3	1	0.11
(1,1622)	1:120:A:THR:HA	1:120:A:THR:HB	6	0.11
(1,1475)	1:110:A:ASP:HA	1:110:A:ASP:HB3	7	0.11
(1,1474)	1:110:A:ASP:HB3	1:110:A:ASP:HA	7	0.11
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1426)	1:103:A:LEU:HA	1:107:A:ASN:H	9	0.11
(1,1365)	1:103:A:LEU:H	1:104:A:TYR:H	5	0.11
(1,1365)	1:103:A:LEU:H	1:104:A:TYR:H	8	0.11
(1,1351)	1:103:A:LEU:HB3	1:103:A:LEU:H	9	0.11
(1,1262)	1:99:A:LEU:HA	1:99:A:LEU:H	6	0.11
(1,1182)	1:96:A:LYS:HA	1:96:A:LYS:HB3	8	0.11
(1,1181)	1:96:A:LYS:HB3	1:96:A:LYS:HA	8	0.11
(1,1170)	1:95:A:THR:HA	1:95:A:THR:H	6	0.11
(1,1151)	1:93:A:ALA:H	1:94:A:PHE:H	2	0.11
(1,1151)	1:93:A:ALA:H	1:94:A:PHE:H	3	0.11
(1,1151)	1:93:A:ALA:H	1:94:A:PHE:H	7	0.11
(1,1151)	1:93:A:ALA:H	1:94:A:PHE:H	9	0.11
(1,1150)	1:94:A:PHE:H	1:93:A:ALA:H	2	0.11
(1,1150)	1:94:A:PHE:H	1:93:A:ALA:H	3	0.11
(1,1150)	1:94:A:PHE:H	1:93:A:ALA:H	7	0.11
(1,1150)	1:94:A:PHE:H	1:93:A:ALA:H	9	0.11
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	5	0.11
(1,1111)	1:91:A:ASP:H	1:92:A:TRP:H	10	0.11
(1,1110)	1:92:A:TRP:H	1:91:A:ASP:H	10	0.11
(1,1091)	1:90:A:ALA:H	1:91:A:ASP:H	2	0.11
(1,1091)	1:90:A:ALA:H	1:91:A:ASP:H	8	0.11
(1,1090)	1:91:A:ASP:H	1:90:A:ALA:H	2	0.11
(1,1090)	1:91:A:ASP:H	1:90:A:ALA:H	8	0.11
(1,1088)	1:90:A:ALA:HA	1:91:A:ASP:H	1	0.11
(1,1052)	1:88:A:VAL:HA	1:88:A:VAL:HB	7	0.11
(1,1051)	1:88:A:VAL:HB	1:88:A:VAL:HA	7	0.11
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	9	0.11
(1,955)	1:82:A:VAL:HA	1:82:A:VAL:H	3	0.11
(1,955)	1:82:A:VAL:HA	1:82:A:VAL:H	5	0.11
(1,955)	1:82:A:VAL:HA	1:82:A:VAL:H	6	0.11
(1,952)	1:82:A:VAL:H	1:81:A:TYR:H	7	0.11
(1,951)	1:81:A:TYR:H	1:82:A:VAL:H	7	0.11
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG11	10	0.11
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG12	10	0.11
(1,931)	1:78:A:THR:HG21	1:82:A:VAL:HG13	10	0.11
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG11	10	0.11
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG12	10	0.11
(1,931)	1:78:A:THR:HG22	1:82:A:VAL:HG13	10	0.11
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG11	10	0.11
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG12	10	0.11
(1,931)	1:78:A:THR:HG23	1:82:A:VAL:HG13	10	0.11
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG21	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG22	10	0.11
(1,930)	1:82:A:VAL:HG11	1:78:A:THR:HG23	10	0.11
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG21	10	0.11
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG22	10	0.11
(1,930)	1:82:A:VAL:HG12	1:78:A:THR:HG23	10	0.11
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG21	10	0.11
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG22	10	0.11
(1,930)	1:82:A:VAL:HG13	1:78:A:THR:HG23	10	0.11
(1,905)	1:79:A:ASP:HA	1:80:A:ALA:H	3	0.11
(1,872)	1:77:A:TRP:HA	1:77:A:TRP:H	7	0.11
(1,830)	1:73:A:THR:HB	1:75:A:SER:H	1	0.11
(1,821)	1:74:A:TYR:HA	1:74:A:TYR:H	4	0.11
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD1	9	0.11
(1,797)	1:71:A:SER:HA	1:74:A:TYR:HD2	9	0.11
(1,796)	1:74:A:TYR:HD1	1:71:A:SER:HA	9	0.11
(1,796)	1:74:A:TYR:HD2	1:71:A:SER:HA	9	0.11
(1,761)	1:72:A:THR:HA	1:72:A:THR:H	6	0.11
(1,755)	1:71:A:SER:HA	1:72:A:THR:H	3	0.11
(1,734)	1:70:A:PHE:HA	1:71:A:SER:H	5	0.11
(1,727)	1:70:A:PHE:HA	1:70:A:PHE:H	4	0.11
(1,704)	1:69:A:GLN:HB3	1:69:A:GLN:H	5	0.11
(1,700)	1:69:A:GLN:HA	1:69:A:GLN:HB3	6	0.11
(1,695)	1:68:A:GLU:HA	1:69:A:GLN:H	9	0.11
(1,672)	1:65:A:GLU:HA	1:68:A:GLU:H	4	0.11
(1,656)	1:64:A:ARG:HB2	1:68:A:GLU:HG2	1	0.11
(1,655)	1:68:A:GLU:HG2	1:64:A:ARG:HB2	1	0.11
(1,649)	1:67:A:SER:HA	1:67:A:SER:H	8	0.11
(1,633)	1:66:A:ASN:HA	1:66:A:ASN:H	4	0.11
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	4	0.11
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	4	0.11
(1,555)	1:63:A:ARG:HA	1:63:A:ARG:HB3	2	0.11
(1,554)	1:63:A:ARG:HB3	1:63:A:ARG:HA	2	0.11
(1,531)	1:62:A:ASN:HB3	1:62:A:ASN:H	9	0.11
(1,530)	1:62:A:ASN:HA	1:62:A:ASN:H	7	0.11
(1,504)	1:58:A:LYS:HG2	1:62:A:ASN:H	3	0.11
(1,466)	1:60:A:LEU:HA	1:60:A:LEU:H	5	0.11
(1,466)	1:60:A:LEU:HA	1:60:A:LEU:H	7	0.11
(1,466)	1:60:A:LEU:HA	1:60:A:LEU:H	10	0.11
(1,432)	1:59:A:ALA:H	1:58:A:LYS:H	7	0.11
(1,431)	1:58:A:LYS:H	1:59:A:ALA:H	7	0.11
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE1	7	0.11
(1,388)	1:58:A:LYS:HD2	1:55:A:TYR:HE2	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:55:A:TYR:HE1	1:58:A:LYS:HD2	7	0.11
(1,387)	1:55:A:TYR:HE2	1:58:A:LYS:HD2	7	0.11
(1,377)	1:55:A:TYR:HE1	1:58:A:LYS:HB3	10	0.11
(1,377)	1:55:A:TYR:HE2	1:58:A:LYS:HB3	10	0.11
(1,356)	1:57:A:GLU:HA	1:57:A:GLU:H	5	0.11
(1,356)	1:57:A:GLU:HA	1:57:A:GLU:H	6	0.11
(1,356)	1:57:A:GLU:HA	1:57:A:GLU:H	7	0.11
(1,356)	1:57:A:GLU:HA	1:57:A:GLU:H	8	0.11
(1,356)	1:57:A:GLU:HA	1:57:A:GLU:H	10	0.11
(1,343)	1:54:A:PHE:HA	1:57:A:GLU:H	8	0.11
(1,310)	1:53:A:HIS:HB3	1:56:A:VAL:HB	5	0.11
(1,292)	1:52:A:SER:HA	1:55:A:TYR:H	2	0.11
(1,248)	1:54:A:PHE:HB3	1:51:A:GLN:HB2	1	0.11
(1,248)	1:54:A:PHE:HB3	1:51:A:GLN:HB2	10	0.11
(1,235)	1:53:A:HIS:HA	1:53:A:HIS:H	3	0.11
(1,235)	1:53:A:HIS:HA	1:53:A:HIS:H	5	0.11
(1,235)	1:53:A:HIS:HA	1:53:A:HIS:H	8	0.11
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	9	0.11
(1,201)	1:50:A:GLU:HG2	1:52:A:SER:H	2	0.11
(1,194)	1:51:A:GLN:HA	1:51:A:GLN:HB2	1	0.11
(1,193)	1:51:A:GLN:HB2	1:51:A:GLN:HA	1	0.11
(1,153)	1:49:A:ILE:HA	1:50:A:GLU:H	3	0.11
(1,122)	1:49:A:ILE:HA	1:49:A:ILE:H	4	0.11
(1,122)	1:49:A:ILE:HA	1:49:A:ILE:H	9	0.11
(1,93)	1:45:A:ASP:HA	1:49:A:ILE:H	9	0.11
(1,59)	1:46:A:ASP:HA	1:47:A:ILE:H	5	0.11
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD11	2	0.11
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD12	2	0.11
(1,47)	1:44:A:GLN:HB2	1:47:A:ILE:HD13	2	0.11
(1,46)	1:47:A:ILE:HD11	1:44:A:GLN:HB2	2	0.11
(1,46)	1:47:A:ILE:HD12	1:44:A:GLN:HB2	2	0.11
(1,46)	1:47:A:ILE:HD13	1:44:A:GLN:HB2	2	0.11
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	1	0.1
(1,5110)	1:242:A:TRP:HA	1:242:A:TRP:H	6	0.1
(1,4650)	1:56:A:VAL:HG21	1:231:A:LEU:HD21	2	0.1
(1,4650)	1:56:A:VAL:HG21	1:231:A:LEU:HD22	2	0.1
(1,4650)	1:56:A:VAL:HG21	1:231:A:LEU:HD23	2	0.1
(1,4650)	1:56:A:VAL:HG22	1:231:A:LEU:HD21	2	0.1
(1,4650)	1:56:A:VAL:HG22	1:231:A:LEU:HD22	2	0.1
(1,4650)	1:56:A:VAL:HG22	1:231:A:LEU:HD23	2	0.1
(1,4650)	1:56:A:VAL:HG23	1:231:A:LEU:HD21	2	0.1
(1,4650)	1:56:A:VAL:HG23	1:231:A:LEU:HD22	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4650)	1:56:A:VAL:HG23	1:231:A:LEU:HD23	2	0.1
(1,4639)	1:231:A:LEU:HD11	1:56:A:VAL:HA	3	0.1
(1,4639)	1:231:A:LEU:HD12	1:56:A:VAL:HA	3	0.1
(1,4639)	1:231:A:LEU:HD13	1:56:A:VAL:HA	3	0.1
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD11	3	0.1
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD12	3	0.1
(1,4638)	1:56:A:VAL:HA	1:231:A:LEU:HD13	3	0.1
(1,4559)	1:226:A:GLY:HA2	1:226:A:GLY:H	6	0.1
(1,4522)	1:223:A:GLY:HA2	1:223:A:GLY:H	2	0.1
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD1	6	0.1
(1,4221)	1:211:A:ASP:HA	1:212:A:TYR:HD2	6	0.1
(1,4180)	1:210:A:GLY:H	1:211:A:ASP:H	10	0.1
(1,4179)	1:211:A:ASP:H	1:210:A:GLY:H	10	0.1
(1,4034)	1:204:A:LYS:H	1:207:A:LYS:H	7	0.1
(1,4033)	1:204:A:LYS:HA	1:207:A:LYS:H	2	0.1
(1,3930)	1:200:A:LEU:HA	1:204:A:LYS:H	3	0.1
(1,3930)	1:200:A:LEU:HA	1:204:A:LYS:H	9	0.1
(1,3929)	1:200:A:LEU:HD21	1:204:A:LYS:HE2	1	0.1
(1,3929)	1:200:A:LEU:HD22	1:204:A:LYS:HE2	1	0.1
(1,3929)	1:200:A:LEU:HD23	1:204:A:LYS:HE2	1	0.1
(1,3928)	1:204:A:LYS:HE2	1:200:A:LEU:HD21	1	0.1
(1,3928)	1:204:A:LYS:HE2	1:200:A:LEU:HD22	1	0.1
(1,3928)	1:204:A:LYS:HE2	1:200:A:LEU:HD23	1	0.1
(1,3700)	1:196:A:PHE:HB3	1:196:A:PHE:H	2	0.1
(1,3538)	1:194:A:MET:H	1:175:A:SER:H	8	0.1
(1,3537)	1:175:A:SER:H	1:194:A:MET:H	8	0.1
(1,3397)	1:191:A:ALA:HB1	1:150:A:ARG:HE	10	0.1
(1,3397)	1:191:A:ALA:HB2	1:150:A:ARG:HE	10	0.1
(1,3397)	1:191:A:ALA:HB3	1:150:A:ARG:HE	10	0.1
(1,3383)	1:189:A:ALA:HB1	1:190:A:LYS:HG2	10	0.1
(1,3383)	1:189:A:ALA:HB2	1:190:A:LYS:HG2	10	0.1
(1,3383)	1:189:A:ALA:HB3	1:190:A:LYS:HG2	10	0.1
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB1	10	0.1
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB2	10	0.1
(1,3382)	1:190:A:LYS:HG2	1:189:A:ALA:HB3	10	0.1
(1,3158)	1:180:A:THR:HG21	1:76:A:PHE:H	9	0.1
(1,3158)	1:180:A:THR:HG22	1:76:A:PHE:H	9	0.1
(1,3158)	1:180:A:THR:HG23	1:76:A:PHE:H	9	0.1
(1,3118)	1:177:A:ILE:HA	1:177:A:ILE:H	8	0.1
(1,2784)	1:168:A:ALA:HA	1:168:A:ALA:H	2	0.1
(1,2687)	1:163:A:VAL:HG21	1:161:A:ARG:HB2	9	0.1
(1,2687)	1:163:A:VAL:HG22	1:161:A:ARG:HB2	9	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2687)	1:163:A:VAL:HG23	1:161:A:ARG:HB2	9	0.1
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG21	9	0.1
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG22	9	0.1
(1,2686)	1:161:A:ARG:HB2	1:163:A:VAL:HG23	9	0.1
(1,2541)	1:157:A:ALA:HA	1:156:A:GLU:H	6	0.1
(1,2519)	1:156:A:GLU:HA	1:156:A:GLU:HB3	5	0.1
(1,2518)	1:156:A:GLU:HB3	1:156:A:GLU:HA	5	0.1
(1,2423)	1:151:A:ARG:HA	1:152:A:ALA:H	9	0.1
(1,2369)	1:147:A:ARG:HA	1:150:A:ARG:H	10	0.1
(1,2339)	1:148:A:SER:HA	1:148:A:SER:H	2	0.1
(1,2339)	1:148:A:SER:HA	1:148:A:SER:H	3	0.1
(1,2339)	1:148:A:SER:HA	1:148:A:SER:H	4	0.1
(1,2315)	1:147:A:ARG:HA	1:147:A:ARG:H	7	0.1
(1,2296)	1:144:A:ASP:HB2	1:147:A:ARG:HB3	3	0.1
(1,2295)	1:147:A:ARG:HB3	1:144:A:ASP:HB2	3	0.1
(1,2289)	1:146:A:LEU:HB3	1:146:A:LEU:H	5	0.1
(1,2287)	1:146:A:LEU:HA	1:146:A:LEU:HB2	2	0.1
(1,2286)	1:146:A:LEU:HB2	1:146:A:LEU:HA	2	0.1
(1,1891)	1:129:A:LEU:HA	1:129:A:LEU:H	7	0.1
(1,1813)	1:104:A:TYR:HD1	1:126:A:GLU:H	4	0.1
(1,1813)	1:104:A:TYR:HD2	1:126:A:GLU:H	4	0.1
(1,1674)	1:112:A:VAL:HG11	1:122:A:TYR:HE1	9	0.1
(1,1674)	1:112:A:VAL:HG11	1:122:A:TYR:HE2	9	0.1
(1,1674)	1:112:A:VAL:HG12	1:122:A:TYR:HE1	9	0.1
(1,1674)	1:112:A:VAL:HG12	1:122:A:TYR:HE2	9	0.1
(1,1674)	1:112:A:VAL:HG13	1:122:A:TYR:HE1	9	0.1
(1,1674)	1:112:A:VAL:HG13	1:122:A:TYR:HE2	9	0.1
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG11	9	0.1
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG12	9	0.1
(1,1673)	1:122:A:TYR:HE1	1:112:A:VAL:HG13	9	0.1
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG11	9	0.1
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG12	9	0.1
(1,1673)	1:122:A:TYR:HE2	1:112:A:VAL:HG13	9	0.1
(1,1633)	1:116:A:ASP:H	1:121:A:ARG:H	1	0.1
(1,1632)	1:121:A:ARG:H	1:116:A:ASP:H	1	0.1
(1,1524)	1:88:A:VAL:HG21	1:114:A:VAL:HB	7	0.1
(1,1524)	1:88:A:VAL:HG22	1:114:A:VAL:HB	7	0.1
(1,1524)	1:88:A:VAL:HG23	1:114:A:VAL:HB	7	0.1
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG21	7	0.1
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG22	7	0.1
(1,1523)	1:114:A:VAL:HB	1:88:A:VAL:HG23	7	0.1
(1,1216)	1:97:A:ASN:H	1:98:A:ASN:H	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1215)	1:98:A:ASN:H	1:97:A:ASN:H	6	0.1
(1,1116)	1:92:A:TRP:HA	1:92:A:TRP:H	1	0.1
(1,981)	1:83:A:TYR:HA	1:83:A:TYR:H	4	0.1
(1,955)	1:82:A:VAL:HA	1:82:A:VAL:H	4	0.1
(1,955)	1:82:A:VAL:HA	1:82:A:VAL:H	9	0.1
(1,911)	1:80:A:ALA:HA	1:80:A:ALA:H	2	0.1
(1,911)	1:80:A:ALA:HA	1:80:A:ALA:H	10	0.1
(1,907)	1:79:A:ASP:H	1:80:A:ALA:H	6	0.1
(1,891)	1:79:A:ASP:H	1:78:A:THR:H	9	0.1
(1,815)	1:74:A:TYR:H	1:73:A:THR:H	3	0.1
(1,814)	1:73:A:THR:H	1:74:A:TYR:H	3	0.1
(1,771)	1:70:A:PHE:HA	1:73:A:THR:H	10	0.1
(1,758)	1:71:A:SER:H	1:72:A:THR:H	10	0.1
(1,757)	1:72:A:THR:H	1:71:A:SER:H	10	0.1
(1,755)	1:71:A:SER:HA	1:72:A:THR:H	7	0.1
(1,727)	1:70:A:PHE:HA	1:70:A:PHE:H	2	0.1
(1,724)	1:70:A:PHE:HA	1:70:A:PHE:HB3	2	0.1
(1,723)	1:70:A:PHE:HB3	1:70:A:PHE:HA	2	0.1
(1,703)	1:69:A:GLN:HA	1:69:A:GLN:H	5	0.1
(1,703)	1:69:A:GLN:HA	1:69:A:GLN:H	8	0.1
(1,663)	1:65:A:GLU:HG2	1:68:A:GLU:HB3	4	0.1
(1,662)	1:68:A:GLU:HB3	1:65:A:GLU:HG2	4	0.1
(1,575)	1:62:A:ASN:HB2	1:64:A:ARG:H	3	0.1
(1,557)	1:63:A:ARG:HA	1:63:A:ARG:HB2	2	0.1
(1,556)	1:63:A:ARG:HB2	1:63:A:ARG:HA	2	0.1
(1,555)	1:63:A:ARG:HA	1:63:A:ARG:HB3	4	0.1
(1,554)	1:63:A:ARG:HB3	1:63:A:ARG:HA	4	0.1
(1,432)	1:59:A:ALA:H	1:58:A:LYS:H	1	0.1
(1,432)	1:59:A:ALA:H	1:58:A:LYS:H	10	0.1
(1,431)	1:58:A:LYS:H	1:59:A:ALA:H	1	0.1
(1,431)	1:58:A:LYS:H	1:59:A:ALA:H	10	0.1
(1,367)	1:54:A:PHE:HB3	1:58:A:LYS:HE2	9	0.1
(1,366)	1:58:A:LYS:HE2	1:54:A:PHE:HB3	9	0.1
(1,356)	1:57:A:GLU:HA	1:57:A:GLU:H	1	0.1
(1,248)	1:54:A:PHE:HB3	1:51:A:GLN:HB2	7	0.1
(1,235)	1:53:A:HIS:HA	1:53:A:HIS:H	7	0.1
(1,227)	1:52:A:SER:H	1:53:A:HIS:H	5	0.1
(1,195)	1:51:A:GLN:HA	1:51:A:GLN:H	2	0.1
(1,164)	1:50:A:GLU:HA	1:50:A:GLU:H	3	0.1
(1,161)	1:50:A:GLU:HA	1:50:A:GLU:HB3	9	0.1
(1,160)	1:50:A:GLU:HB3	1:50:A:GLU:HA	9	0.1
(1,122)	1:49:A:ILE:HA	1:49:A:ILE:H	6	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:49:A:ILE:HA	1:49:A:ILE:H	7	0.1
(1,101)	1:49:A:ILE:HD11	1:46:A:ASP:HB2	6	0.1
(1,101)	1:49:A:ILE:HD12	1:46:A:ASP:HB2	6	0.1
(1,101)	1:49:A:ILE:HD13	1:46:A:ASP:HB2	6	0.1
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD11	4	0.1
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD12	4	0.1
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD13	4	0.1
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD11	9	0.1
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD12	9	0.1
(1,45)	1:44:A:GLN:HB3	1:47:A:ILE:HD13	9	0.1
(1,44)	1:47:A:ILE:HD11	1:44:A:GLN:HB3	4	0.1
(1,44)	1:47:A:ILE:HD12	1:44:A:GLN:HB3	4	0.1
(1,44)	1:47:A:ILE:HD13	1:44:A:GLN:HB3	4	0.1
(1,44)	1:47:A:ILE:HD11	1:44:A:GLN:HB3	9	0.1
(1,44)	1:47:A:ILE:HD12	1:44:A:GLN:HB3	9	0.1
(1,44)	1:47:A:ILE:HD13	1:44:A:GLN:HB3	9	0.1
(1,14)	1:45:A:ASP:H	1:44:A:GLN:H	2	0.1
(1,13)	1:44:A:GLN:H	1:45:A:ASP:H	2	0.1

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

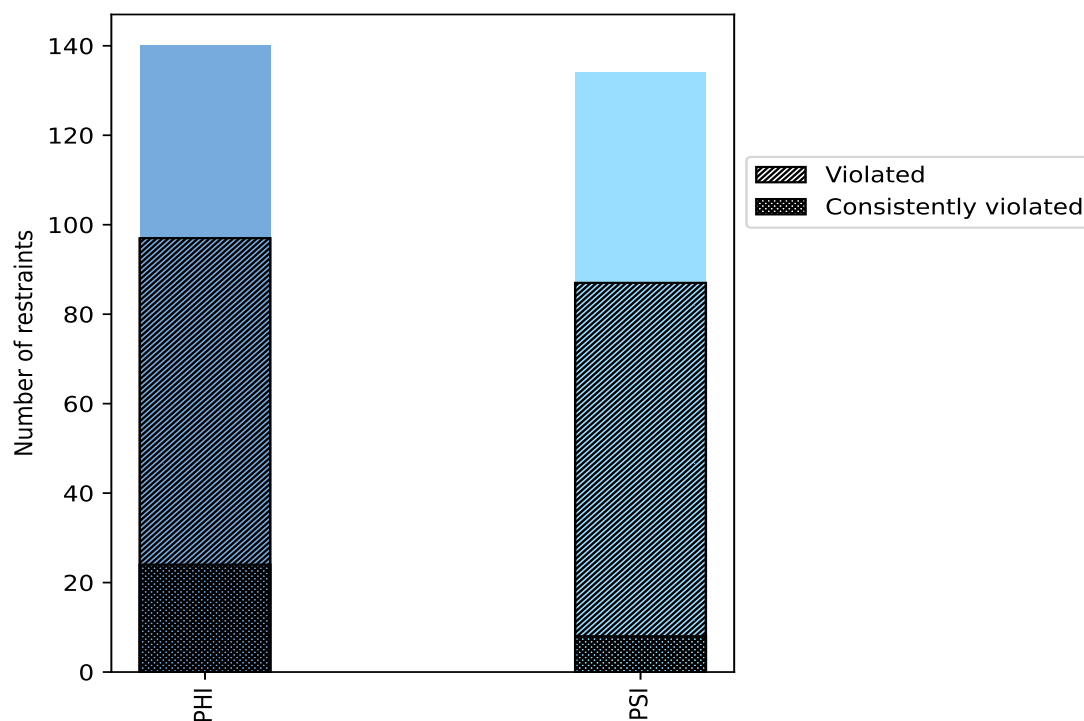
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PHI	140	51.1	97	69.3	35.4	24	17.1	8.8
PSI	134	48.9	87	64.9	31.8	8	6.0	2.9
Total	274	100.0	184	67.2	67.2	32	11.7	11.7

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

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



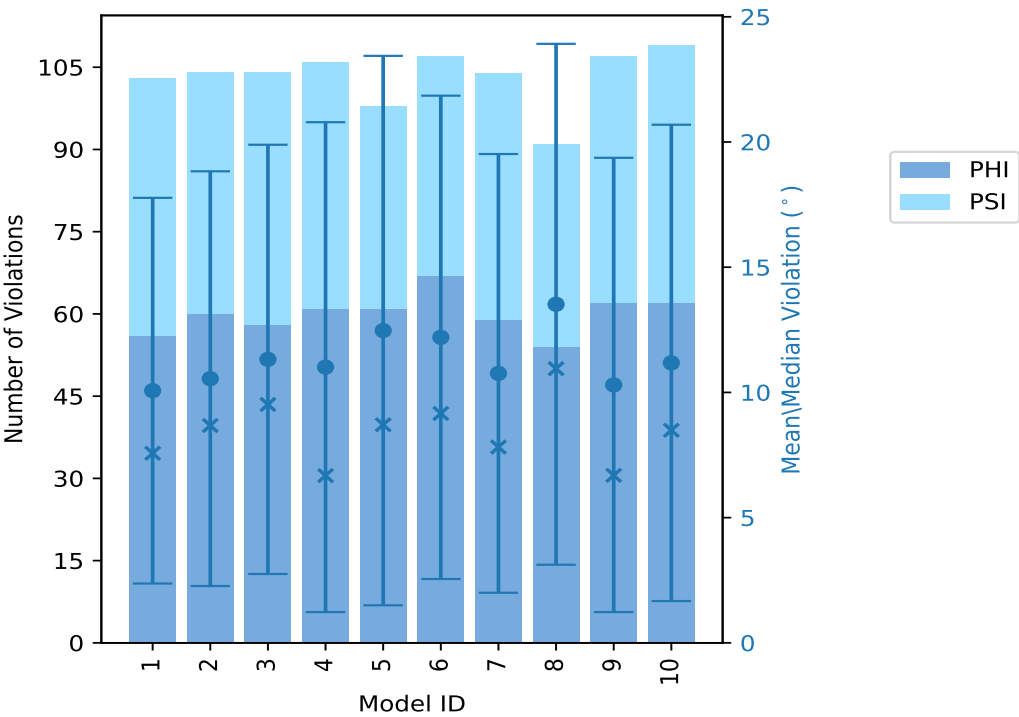
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	56	47	103	10.07	32.74	7.7	7.57
2	60	44	104	10.55	36.26	8.28	8.68
3	58	46	104	11.32	39.98	8.57	9.52
4	61	45	106	11.01	49.74	9.78	6.68
5	61	37	98	12.47	52.63	10.97	8.71
6	67	40	107	12.2	53.35	9.65	9.16
7	59	45	104	10.76	47.68	8.76	7.82
8	54	37	91	13.52	49.03	10.4	10.95
9	62	45	107	10.3	44.24	9.07	6.69
10	62	47	109	11.18	48.73	9.51	8.49

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

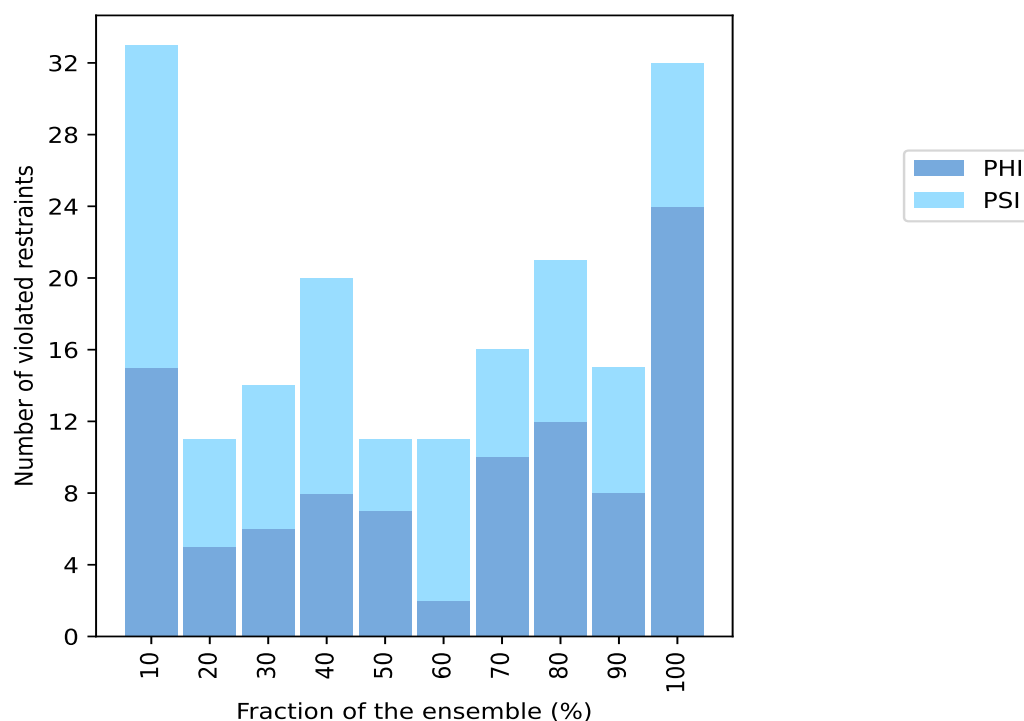
10.3 Dihedral-angle violation statistics for the ensemble [i](#)

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count ¹	%
15	18	33	1	10.0
5	6	11	2	20.0
6	8	14	3	30.0
8	12	20	4	40.0
7	4	11	5	50.0
2	9	11	6	60.0
10	6	16	7	70.0
12	9	21	8	80.0
8	7	15	9	90.0
24	8	32	10	100.0

¹ Number of models with violations

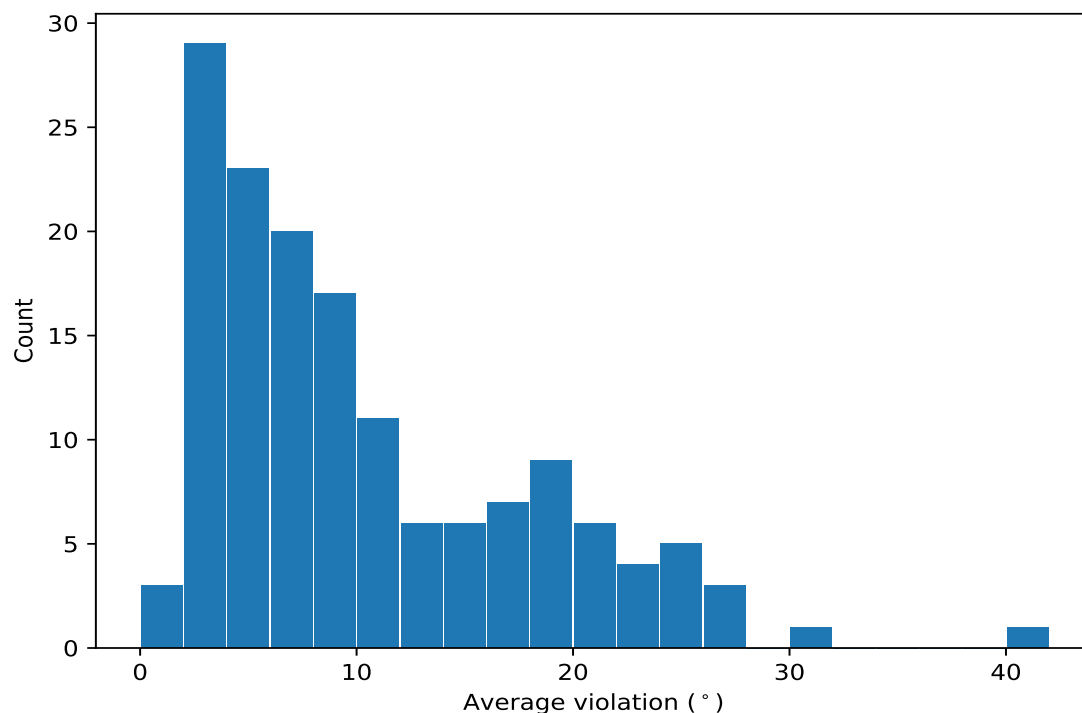
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	10	25.62	7.08	25.37
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	10	25.05	4.45	24.74
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	10	24.91	5.32	25.88
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	10	24.9	1.77	24.51
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	10	24.24	1.35	24.24
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	10	22.23	8.99	23.56
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	10	21.04	1.09	21.16
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	10	20.04	11.63	19.46
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	10	19.8	6.59	21.36
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	10	19.41	3.96	20.8
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	10	18.82	6.52	20.83
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	10	18.65	5.99	16.24
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	10	18.54	4.21	18.24

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	10	17.62	1.89	17.8
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	10	16.3	2.57	16.36
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	10	16.18	4.23	16.56
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	10	15.91	4.75	14.5
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	10	15.33	2.38	15.91
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	10	14.81	3.45	16.4
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	10	14.8	4.31	17.23
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	10	13.78	3.61	13.47
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	10	10.02	5.53	9.43
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	10	9.95	5.83	8.18
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	10	9.37	3.35	10.38
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	10	9.21	2.41	9.93
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	10	7.8	6.3	4.57
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	10	7.58	1.93	7.88
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	10	7.4	0.82	7.7
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	10	6.71	2.12	6.3
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	10	6.19	1.82	5.59
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	10	6.04	3.23	5.64
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	10	4.68	1.57	4.21
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	9	26.97	11.45	23.09
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	9	19.62	4.47	19.14
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	9	16.2	2.73	16.4
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	9	16.01	6.24	17.67
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	9	11.57	6.09	11.89
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	9	11.06	4.11	11.58
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	9	10.72	2.85	11.99
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	9	8.75	4.87	10.11
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	9	8.3	1.6	8.49
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	9	6.3	4.01	5.03
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	9	5.98	1.61	5.69
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	9	5.15	1.18	5.54
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	9	4.48	0.99	4.61
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	9	3.98	1.69	3.41
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	9	3.94	1.27	4.01
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	8	31.97	16.02	33.56
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	8	26.89	14.02	20.5
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	8	26.84	8.59	29.42
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	8	22.52	13.14	26.42
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	8	19.67	4.69	20.1
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	8	15.99	6.42	16.44
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	8	13.31	2.84	13.26
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	8	12.38	5.67	11.46
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	8	10.28	6.78	7.94
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	8	9.15	2.69	9.6
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	8	8.95	3.21	8.93
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	8	8.11	4.71	6.48
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	8	7.9	3.82	8.7
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	8	7.56	2.2	7.72
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	8	5.64	1.97	6.06
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	8	5.17	3.5	4.44
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	8	5.08	2.94	5.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	8	4.89	1.96	4.78
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	8	4.75	3.16	3.16
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	8	2.5	0.91	2.4
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	8	2.0	0.65	2.16
(1,42)	1:76:A:PHE:C	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	7	23.54	8.89	27.17
(1,178)	1:176:A:ALA:C	1:177:A:ILE:N	1:177:A:ILE:CA	1:177:A:ILE:C	7	21.73	8.02	18.5
(1,118)	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1:133:A:SER:N	7	16.71	8.04	21.11
(1,76)	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	1:98:A:ASN:N	7	9.91	7.94	9.38
(1,200)	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	1:194:A:MET:N	7	8.18	5.5	7.73
(1,238)	1:218:A:HIS:C	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	7	8.11	4.83	11.6
(1,154)	1:160:A:SER:N	1:160:A:SER:CA	1:160:A:SER:C	1:161:A:ARG:N	7	7.15	4.19	7.46
(1,53)	1:82:A:VAL:N	1:82:A:VAL:CA	1:82:A:VAL:C	1:83:A:TYR:N	7	6.76	3.04	5.82
(1,168)	1:170:A:ALA:C	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	7	5.78	2.61	7.57
(1,139)	1:149:A:ALA:C	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	7	5.23	1.88	5.68
(1,172)	1:172:A:LEU:C	1:173:A:VAL:N	1:173:A:VAL:CA	1:173:A:VAL:C	7	4.43	2.22	5.57
(1,162)	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1:166:A:ASP:N	7	3.93	2.28	4.36
(1,81)	1:100:A:GLY:C	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	7	3.54	1.4	3.48
(1,183)	1:180:A:THR:C	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	7	3.49	0.84	3.74
(1,15)	1:58:A:LYS:C	1:59:A:ALA:N	1:59:A:ALA:CA	1:59:A:ALA:C	7	3.34	1.67	3.06
(1,261)	1:238:A:HIS:C	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	7	1.79	0.38	1.7
(1,214)	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	1:201:A:THR:N	6	41.72	13.14	48.88
(1,88)	1:105:A:THR:N	1:105:A:THR:CA	1:105:A:THR:C	1:106:A:THR:N	6	20.08	1.71	19.84
(1,41)	1:74:A:TYR:N	1:74:A:TYR:CA	1:74:A:TYR:C	1:75:A:SER:N	6	11.68	6.05	14.56
(1,240)	1:219:A:LEU:C	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	6	9.62	4.51	11.63
(1,27)	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	1:66:A:ASN:N	6	6.87	3.11	5.48
(1,150)	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	1:158:A:ALA:N	6	6.34	5.78	3.77
(1,197)	1:191:A:ALA:C	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	6	4.25	2.69	3.68
(1,175)	1:174:A:ALA:N	1:174:A:ALA:CA	1:174:A:ALA:C	1:175:A:SER:N	6	3.38	1.83	2.53
(1,177)	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	1:176:A:ALA:N	6	3.04	1.3	3.32
(1,252)	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	1:232:A:ALA:N	6	2.81	0.87	2.9
(1,49)	1:80:A:ALA:N	1:80:A:ALA:CA	1:80:A:ALA:C	1:81:A:TYR:N	6	2.36	0.97	2.09
(1,91)	1:108:A:GLY:C	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	5	16.65	9.17	17.22
(1,211)	1:198:A:ASP:C	1:199:A:ARG:N	1:199:A:ARG:CA	1:199:A:ARG:C	5	13.69	4.05	16.16
(1,241)	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	1:221:A:ALA:N	5	10.71	8.93	7.58
(1,119)	1:132:A:ARG:C	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	5	8.68	3.49	6.92
(1,71)	1:94:A:PHE:C	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	5	8.16	2.95	8.89
(1,115)	1:130:A:SER:C	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	5	6.43	2.4	6.15
(1,136)	1:147:A:ARG:N	1:147:A:ARG:CA	1:147:A:ARG:C	1:148:A:SER:N	5	4.88	1.6	5.12
(1,35)	1:69:A:GLN:N	1:69:A:GLN:CA	1:69:A:GLN:C	1:70:A:PHE:N	5	4.65	1.55	4.47
(1,100)	1:115:A:ILE:N	1:115:A:ILE:CA	1:115:A:ILE:C	1:116:A:ASP:N	5	3.33	1.83	2.68
(1,149)	1:156:A:GLU:C	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	5	3.31	1.71	2.83
(1,26)	1:64:A:ARG:C	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	5	2.73	0.58	2.65
(1,39)	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	1:72:A:THR:N	4	21.38	14.09	21.86
(1,108)	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	1:125:A:LEU:N	4	21.32	16.83	21.06
(1,116)	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	1:132:A:ARG:N	4	15.29	12.18	11.61
(1,239)	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	1:220:A:LEU:N	4	12.59	2.9	13.51
(1,70)	1:93:A:ALA:C	1:94:A:PHE:N	1:94:A:PHE:CA	1:94:A:PHE:C	4	11.82	11.66	7.51
(1,98)	1:114:A:VAL:N	1:114:A:VAL:CA	1:114:A:VAL:C	1:115:A:ILE:N	4	11.72	6.98	8.44
(1,36)	1:69:A:GLN:C	1:70:A:PHE:N	1:70:A:PHE:CA	1:70:A:PHE:C	4	9.59	5.34	8.54
(1,181)	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	1:179:A:PRO:N	4	6.46	1.65	7.16
(1,54)	1:82:A:VAL:C	1:83:A:TYR:N	1:83:A:TYR:CA	1:83:A:TYR:C	4	6.3	4.39	5.57

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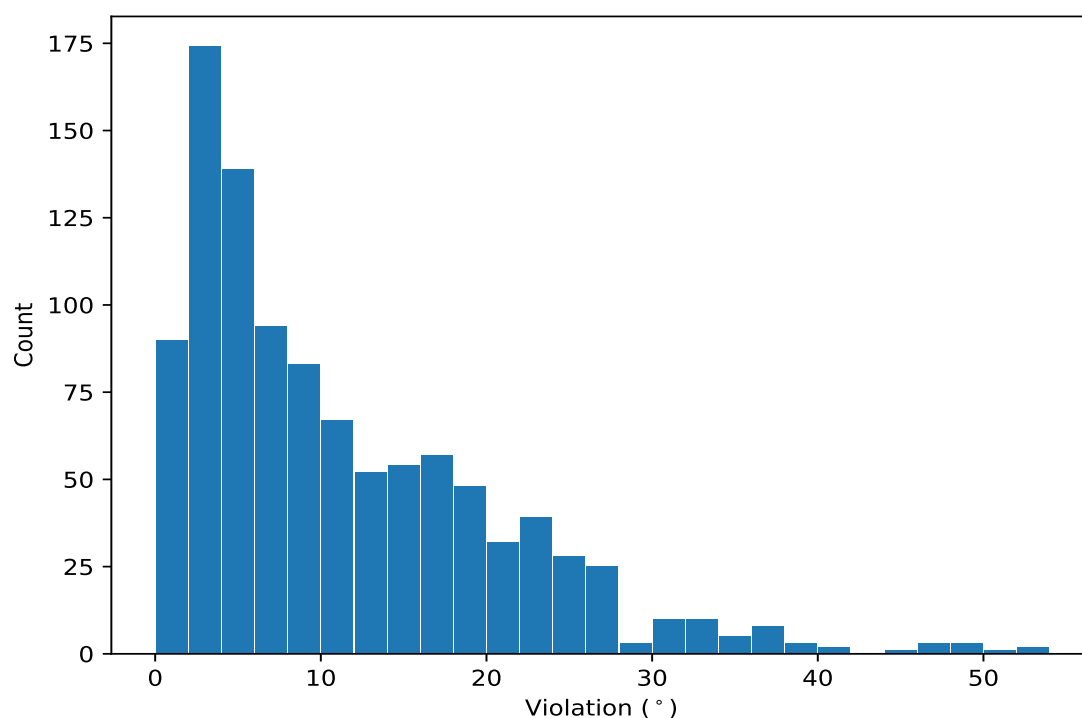
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,47)	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	1:80:A:ALA:N	4	6.04	3.43	5.33
(1,73)	1:95:A:THR:C	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	4	5.81	3.12	4.51
(1,216)	1:203:A:ALA:N	1:203:A:ALA:CA	1:203:A:ALA:C	1:204:A:LYS:N	4	4.98	1.67	5.4
(1,113)	1:129:A:LEU:C	1:130:A:SER:N	1:130:A:SER:CA	1:130:A:SER:C	4	4.64	1.7	3.96
(1,205)	1:195:A:VAL:C	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	4	4.51	1.84	4.88
(1,226)	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	1:209:A:GLY:N	4	3.58	1.35	3.42
(1,251)	1:230:A:SER:C	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	4	3.25	2.86	1.88
(1,260)	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	1:239:A:ARG:N	4	2.8	1.32	3.01
(1,227)	1:210:A:GLY:C	1:211:A:ASP:N	1:211:A:ASP:CA	1:211:A:ASP:C	4	2.5	1.27	2.01
(1,31)	1:67:A:SER:N	1:67:A:SER:CA	1:67:A:SER:C	1:68:A:GLU:N	4	1.96	0.81	1.9
(1,230)	1:212:A:TYR:N	1:212:A:TYR:CA	1:212:A:TYR:C	1:213:A:GLY:N	4	1.4	0.26	1.34
(1,248)	1:228:A:LYS:C	1:229:A:GLU:N	1:229:A:GLU:CA	1:229:A:GLU:C	3	23.65	11.42	23.73
(1,63)	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	1:89:A:ASP:N	3	19.45	14.27	20.08
(1,67)	1:91:A:ASP:N	1:91:A:ASP:CA	1:91:A:ASP:C	1:92:A:TRP:N	3	11.11	5.0	9.8
(1,196)	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	1:191:A:ALA:N	3	8.78	5.24	6.73
(1,130)	1:141:A:ASP:N	1:141:A:ASP:CA	1:141:A:ASP:C	1:142:A:THR:N	3	7.48	7.0	2.55
(1,74)	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	1:97:A:ASN:N	3	4.82	2.34	5.12
(1,217)	1:203:A:ALA:C	1:204:A:LYS:N	1:204:A:LYS:CA	1:204:A:LYS:C	3	4.65	1.25	4.55
(1,198)	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	1:193:A:VAL:N	3	4.11	3.15	2.77
(1,78)	1:98:A:ASN:C	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	3	3.91	2.02	4.96
(1,45)	1:78:A:THR:N	1:78:A:THR:CA	1:78:A:THR:C	1:79:A:ASP:N	3	3.64	2.6	2.44
(1,128)	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	1:141:A:ASP:N	3	3.05	1.48	3.22
(1,46)	1:78:A:THR:C	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	3	2.73	1.07	3.17
(1,22)	1:62:A:ASN:C	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	3	2.18	0.75	2.05
(1,157)	1:162:A:TYR:C	1:163:A:VAL:N	1:163:A:VAL:CA	1:163:A:VAL:C	3	2.09	0.55	1.75
(1,111)	1:127:A:GLY:C	1:128:A:GLU:N	1:128:A:GLU:CA	1:128:A:GLU:C	2	18.92	9.61	18.92
(1,210)	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	1:199:A:ARG:N	2	12.83	1.39	12.83
(1,140)	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	1:151:A:ARG:N	2	10.01	8.81	10.01
(1,90)	1:107:A:ASN:N	1:107:A:ASN:CA	1:107:A:ASN:C	1:108:A:GLY:N	2	9.3	1.98	9.3
(1,43)	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	1:78:A:THR:N	2	7.44	3.73	7.44
(1,258)	1:234:A:GLU:N	1:234:A:GLU:CA	1:234:A:GLU:C	1:235:A:GLY:N	2	7.04	2.42	7.04
(1,199)	1:192:A:SER:C	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	2	4.0	0.39	4.0
(1,170)	1:171:A:ILE:C	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	2	3.1	1.72	3.1
(1,85)	1:102:A:VAL:C	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	2	2.38	1.28	2.38
(1,132)	1:145:A:ILE:N	1:145:A:ILE:CA	1:145:A:ILE:C	1:146:A:LEU:N	2	2.23	1.16	2.23
(1,219)	1:204:A:LYS:C	1:205:A:LEU:N	1:205:A:LEU:CA	1:205:A:LEU:C	2	2.0	0.62	2.0

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

10.5 All violated dihedral-angle restraints ⓘ

10.5.1 Histogram : Distribution of violations ⓘ

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



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

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,214)	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	1:201:A:THR:N	6	53.35
(1,214)	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	1:201:A:THR:N	5	52.63
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	5	51.17
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	4	49.74
(1,214)	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	1:201:A:THR:N	8	49.03
(1,214)	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	1:201:A:THR:N	10	48.73
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	7	47.68
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	8	47.5
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	10	46.46
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	9	44.24
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	5	41.33
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	6	40.13
(1,108)	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	1:125:A:LEU:N	3	39.98
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	7	39.68
(1,39)	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	1:72:A:THR:N	4	38.77
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	9	37.72
(1,248)	1:228:A:LYS:C	1:229:A:GLU:N	1:229:A:GLU:CA	1:229:A:GLU:C	6	37.6
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	5	37.18
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	9	37.05
(1,63)	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	1:89:A:ASP:N	4	36.6
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	8	36.32

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	2	36.26
(1,108)	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	1:125:A:LEU:N	10	36.15
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	5	34.99
(1,42)	1:76:A:PHE:C	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	8	34.55
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	9	34.52
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	2	34.48
(1,116)	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	1:132:A:ARG:N	8	34.47
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	8	33.85
(1,178)	1:176:A:ALA:C	1:177:A:ILE:N	1:177:A:ILE:CA	1:177:A:ILE:C	6	33.38
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	5	33.25
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	9	33.21
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	5	32.79
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	1	32.74
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	1	32.65
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	10	32.62
(1,178)	1:176:A:ALA:C	1:177:A:ILE:N	1:177:A:ILE:CA	1:177:A:ILE:C	4	32.5
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	3	32.2
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	3	31.94
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	2	31.7
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	7	31.42
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	10	31.37
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	2	31.12
(1,70)	1:93:A:ALA:C	1:94:A:PHE:N	1:94:A:PHE:CA	1:94:A:PHE:C	10	30.95
(1,39)	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	1:72:A:THR:N	8	30.67
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	5	30.38
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	4	30.36
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	3	30.08
(1,111)	1:127:A:GLY:C	1:128:A:GLU:N	1:128:A:GLU:CA	1:128:A:GLU:C	8	28.53
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	3	28.47
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	3	28.13
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	2	27.93
(1,91)	1:108:A:GLY:C	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	10	27.86
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	7	27.82
(1,42)	1:76:A:PHE:C	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	1	27.82
(1,241)	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	1:221:A:ALA:N	10	27.62
(1,76)	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	1:98:A:ASN:N	5	27.29
(1,42)	1:76:A:PHE:C	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	2	27.27
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	6	27.17
(1,42)	1:76:A:PHE:C	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	4	27.17
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	4	27.13
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	3	27.08
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	9	26.83
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	4	26.79
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	7	26.72
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	8	26.68
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	5	26.67
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	6	26.61
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	6	26.47
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	5	26.39
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	4	26.38
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	7	26.33

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	8	26.28
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	8	26.24
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	1	26.22
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	4	26.14
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	5	25.98
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	2	25.84
(1,141)	1:150:A:ARG:C	1:151:A:ARG:N	1:151:A:ARG:CA	1:151:A:ARG:C	6	25.81
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	7	25.59
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	3	25.56
(1,42)	1:76:A:PHE:C	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	6	25.56
(1,91)	1:108:A:GLY:C	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	7	25.34
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	10	25.32
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	6	25.3
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	8	25.29
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	8	25.28
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	3	25.28
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	2	25.18
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	9	25.16
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	6	25.15
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	1	25.13
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	5	25.09
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	9	25.08
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	5	25.07
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	8	24.93
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	1	24.79
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	7	24.7
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	8	24.55
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	9	24.29
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	5	24.28
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	6	24.19
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	2	24.13
(1,214)	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	1:201:A:THR:N	9	24.02
(1,178)	1:176:A:ALA:C	1:177:A:ILE:N	1:177:A:ILE:CA	1:177:A:ILE:C	8	23.9
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	6	23.85
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	2	23.81
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	4	23.77
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	2	23.74
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	4	23.74
(1,248)	1:228:A:LYS:C	1:229:A:GLU:N	1:229:A:GLU:CA	1:229:A:GLU:C	5	23.73
(1,99)	1:114:A:VAL:C	1:115:A:ILE:N	1:115:A:ILE:CA	1:115:A:ILE:C	8	23.72
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	7	23.65
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	5	23.58
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	3	23.58
(1,98)	1:114:A:VAL:N	1:114:A:VAL:CA	1:114:A:VAL:C	1:115:A:ILE:N	8	23.55
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	10	23.47
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	6	23.4
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1	23.36
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	5	23.34
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	8	23.26
(1,118)	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1:133:A:SER:N	9	23.23
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	6	23.22

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1	23.18
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	4	23.16
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	4	23.14
(1,236)	1:216:A:ASN:C	1:217:A:LEU:N	1:217:A:LEU:CA	1:217:A:LEU:C	9	23.11
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	1	23.09
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	6	22.88
(1,88)	1:105:A:THR:N	1:105:A:THR:CA	1:105:A:THR:C	1:106:A:THR:N	2	22.84
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	10	22.81
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	9	22.74
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	6	22.65
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	10	22.65
(1,214)	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	1:201:A:THR:N	2	22.59
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	10	22.55
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	6	22.39
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	1	22.36
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	4	22.32
(1,118)	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1:133:A:SER:N	6	22.27
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	4	22.19
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	7	22.18
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	4	22.04
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	3	21.99
(1,68)	1:92:A:TRP:C	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	8	21.95
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	9	21.94
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	1	21.91
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	9	21.87
(1,151)	1:157:A:ALA:C	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	7	21.85
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	6	21.85
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	9	21.75
(1,118)	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1:133:A:SER:N	3	21.64
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	5	21.61
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	6	21.55
(1,88)	1:105:A:THR:N	1:105:A:THR:CA	1:105:A:THR:C	1:106:A:THR:N	3	21.53
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	4	21.5
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	8	21.46
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	7	21.45
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	3	21.37
(1,118)	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1:133:A:SER:N	10	21.11
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	3	21.1
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	3	21.09
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	4	20.99
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	4	20.98
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	10	20.88
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	6	20.79
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	1	20.75
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	3	20.69
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	6	20.67
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	7	20.61
(1,118)	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1:133:A:SER:N	1	20.29
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	8	20.26
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	8	20.18
(1,63)	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	1:89:A:ASP:N	5	20.08

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	2	20.05
(1,88)	1:105:A:THR:N	1:105:A:THR:CA	1:105:A:THR:C	1:106:A:THR:N	7	19.97
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	5	19.92
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	3	19.88
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	7	19.76
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	3	19.75
(1,88)	1:105:A:THR:N	1:105:A:THR:CA	1:105:A:THR:C	1:106:A:THR:N	10	19.71
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	7	19.65
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	4	19.6
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	6	19.56
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	10	19.52
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	7	19.49
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	7	19.48
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	2	19.38
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	7	19.34
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	3	19.27
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1	19.14
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	9	19.09
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	4	19.02
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	7	19.02
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	10	19.02
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	1	19.0
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	6	18.99
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	3	18.84
(1,88)	1:105:A:THR:N	1:105:A:THR:CA	1:105:A:THR:C	1:106:A:THR:N	6	18.83
(1,140)	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	1:151:A:ARG:N	6	18.82
(1,253)	1:231:A:LEU:C	1:232:A:ALA:N	1:232:A:ALA:CA	1:232:A:ALA:C	2	18.81
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	6	18.7
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	10	18.56
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1	18.55
(1,178)	1:176:A:ALA:C	1:177:A:ILE:N	1:177:A:ILE:CA	1:177:A:ILE:C	2	18.5
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	10	18.5
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	4	18.49
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	2	18.46
(1,41)	1:74:A:TYR:N	1:74:A:TYR:CA	1:74:A:TYR:C	1:75:A:SER:N	2	18.46
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	6	18.45
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	10	18.44
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	4	18.44
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	3	18.44
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	7	18.4
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	5	18.39
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	5	18.39
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	9	18.31
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	1	18.22
(1,150)	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	1:158:A:ALA:N	3	18.22
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	1	18.08
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	10	18.0
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	9	18.0
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	8	18.0
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	1	17.98
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	5	17.95

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	3	17.91
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	10	17.88
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	8	17.84
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	4	17.79
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1	17.79
(1,67)	1:91:A:ASP:N	1:91:A:ASP:CA	1:91:A:ASP:C	1:92:A:TRP:N	10	17.78
(1,211)	1:198:A:ASP:C	1:199:A:ARG:N	1:199:A:ARG:CA	1:199:A:ARG:C	7	17.77
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	8	17.76
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	5	17.67
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	2	17.64
(1,36)	1:69:A:GLN:C	1:70:A:PHE:N	1:70:A:PHE:CA	1:70:A:PHE:C	6	17.64
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	5	17.62
(1,88)	1:105:A:THR:N	1:105:A:THR:CA	1:105:A:THR:C	1:106:A:THR:N	8	17.61
(1,125)	1:137:A:SER:C	1:138:A:LEU:N	1:138:A:LEU:CA	1:138:A:LEU:C	4	17.59
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	8	17.53
(1,42)	1:76:A:PHE:C	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	5	17.51
(1,178)	1:176:A:ALA:C	1:177:A:ILE:N	1:177:A:ILE:CA	1:177:A:ILE:C	7	17.49
(1,130)	1:141:A:ASP:N	1:141:A:ASP:CA	1:141:A:ASP:C	1:142:A:THR:N	4	17.38
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	10	17.37
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	6	17.32
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	2	17.3
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	10	17.24
(1,91)	1:108:A:GLY:C	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	6	17.22
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	3	17.2
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	9	17.14
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	4	17.05
(1,116)	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	1:132:A:ARG:N	3	17.04
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	6	16.99
(1,28)	1:65:A:GLU:C	1:66:A:ASN:N	1:66:A:ASN:CA	1:66:A:ASN:C	3	16.98
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	2	16.96
(1,211)	1:198:A:ASP:C	1:199:A:ARG:N	1:199:A:ARG:CA	1:199:A:ARG:C	1	16.95
(1,200)	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	1:194:A:MET:N	7	16.94
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	8	16.82
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	6	16.78
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	1	16.68
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	1	16.67
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	2	16.65
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	1	16.6
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	7	16.58
(1,270)	1:243:A:VAL:N	1:243:A:VAL:CA	1:243:A:VAL:C	1:244:A:SER:N	10	16.56
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	5	16.51
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	2	16.51
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	6	16.5
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	8	16.44
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1	16.41
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	5	16.4
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	8	16.39
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	9	16.34
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	7	16.28
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	8	16.22
(1,178)	1:176:A:ALA:C	1:177:A:ILE:N	1:177:A:ILE:CA	1:177:A:ILE:C	3	16.22

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,211)	1:198:A:ASP:C	1:199:A:ARG:N	1:199:A:ARG:CA	1:199:A:ARG:C	4	16.16
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	3	16.13
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	3	16.13
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	2	16.06
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	4	15.99
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	1	15.99
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	8	15.99
(1,196)	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	1:191:A:ALA:N	4	15.98
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	9	15.93
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	3	15.8
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	5	15.78
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	10	15.77
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	4	15.76
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	9	15.71
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1	15.68
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	1	15.63
(1,41)	1:74:A:TYR:N	1:74:A:TYR:CA	1:74:A:TYR:C	1:75:A:SER:N	5	15.53
(1,154)	1:160:A:SER:N	1:160:A:SER:CA	1:160:A:SER:C	1:161:A:ARG:N	10	15.5
(1,239)	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	1:220:A:LEU:N	7	15.4
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	5	15.37
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	4	15.35
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	4	15.34
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	9	15.33
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1	15.3
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	2	15.25
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	9	15.2
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	10	15.15
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	5	15.12
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	10	15.1
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	9	15.08
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	6	15.05
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	10	15.03
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	8	15.03
(1,200)	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	1:194:A:MET:N	2	14.92
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	8	14.88
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	7	14.84
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	3	14.8
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	10	14.79
(1,41)	1:74:A:TYR:N	1:74:A:TYR:CA	1:74:A:TYR:C	1:75:A:SER:N	3	14.7
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	6	14.69
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	10	14.64
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	9	14.64
(1,189)	1:185:A:PRO:C	1:186:A:ILE:N	1:186:A:ILE:CA	1:186:A:ILE:C	3	14.61
(1,239)	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	1:220:A:LEU:N	10	14.59
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	9	14.53
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	10	14.48
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	6	14.46
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	5	14.43
(1,41)	1:74:A:TYR:N	1:74:A:TYR:CA	1:74:A:TYR:C	1:75:A:SER:N	7	14.41
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	7	14.39
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	2	14.31

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,210)	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	1:199:A:ARG:N	3	14.22
(1,240)	1:219:A:LEU:C	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	5	14.2
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	9	14.15
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	8	14.11
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	9	14.11
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1	14.09
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	8	14.05
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	9	13.89
(1,124)	1:135:A:ALA:N	1:135:A:ALA:CA	1:135:A:ALA:C	1:136:A:ASP:N	2	13.74
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	3	13.72
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	8	13.71
(1,119)	1:132:A:ARG:C	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	3	13.69
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	9	13.68
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	1	13.67
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	1	13.65
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	3	13.61
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	2	13.6
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	2	13.58
(1,106)	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	1:124:A:MET:N	9	13.54
(1,255)	1:232:A:ALA:C	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	9	13.5
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	4	13.39
(1,238)	1:218:A:HIS:C	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	1	13.35
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	7	13.34
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	10	13.34
(1,65)	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	1:90:A:ALA:N	5	13.33
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	6	13.29
(1,240)	1:219:A:LEU:C	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	6	13.27
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	3	13.26
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	2	13.18
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	1	13.15
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	4	13.11
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	4	13.08
(1,39)	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	1:72:A:THR:N	6	13.04
(1,247)	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	1:222:A:GLY:N	6	13.03
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	3	13.01
(1,27)	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	1:66:A:ASN:N	3	12.93
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	4	12.88
(1,201)	1:193:A:VAL:C	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	9	12.85
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	10	12.71
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	5	12.64
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	2	12.55
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	10	12.55
(1,240)	1:219:A:LEU:C	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	2	12.5
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	5	12.46
(1,272)	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	1:245:A:SER:N	3	12.43
(1,239)	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	1:220:A:LEU:N	1	12.43
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	4	12.38
(1,238)	1:218:A:HIS:C	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	3	12.25
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	2	12.25
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	5	12.24
(1,105)	1:122:A:TYR:C	1:123:A:ALA:N	1:123:A:ALA:CA	1:123:A:ALA:C	2	12.24

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	8	12.22
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	9	12.21
(1,54)	1:82:A:VAL:C	1:83:A:TYR:N	1:83:A:TYR:CA	1:83:A:TYR:C	3	12.21
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	8	12.12
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	3	12.11
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	10	12.06
(1,79)	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1:100:A:GLY:N	6	12.04
(1,119)	1:132:A:ARG:C	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	10	12.01
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	6	11.99
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	10	11.99
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	6	11.98
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	7	11.97
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	4	11.95
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	8	11.93
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	6	11.93
(1,249)	1:229:A:GLU:C	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	9	11.9
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	3	11.9
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	2	11.89
(1,53)	1:82:A:VAL:N	1:82:A:VAL:CA	1:82:A:VAL:C	1:83:A:TYR:N	9	11.84
(1,238)	1:218:A:HIS:C	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	7	11.83
(1,71)	1:94:A:PHE:C	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	3	11.78
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	8	11.76
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	2	11.75
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	1	11.67
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	8	11.62
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	4	11.61
(1,238)	1:218:A:HIS:C	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	10	11.6
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	10	11.59
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	10	11.58
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	6	11.54
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	1	11.53
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	10	11.52
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	7	11.49
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	3	11.47
(1,76)	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	1:98:A:ASN:N	4	11.46
(1,210)	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	1:199:A:ARG:N	7	11.44
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	7	11.4
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	5	11.37
(1,70)	1:93:A:ALA:C	1:94:A:PHE:N	1:94:A:PHE:CA	1:94:A:PHE:C	8	11.37
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	10	11.36
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	7	11.36
(1,76)	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	1:98:A:ASN:N	2	11.36
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	6	11.29
(1,90)	1:107:A:ASN:N	1:107:A:ASN:CA	1:107:A:ASN:C	1:108:A:GLY:N	10	11.28
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	7	11.17
(1,43)	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	1:78:A:THR:N	8	11.17
(1,73)	1:95:A:THR:C	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	10	11.11
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	1	11.08
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	4	11.02
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	8	10.95
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	9	10.95

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	8	10.94
(1,36)	1:69:A:GLN:C	1:70:A:PHE:N	1:70:A:PHE:CA	1:70:A:PHE:C	10	10.94
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	6	10.92
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	5	10.89
(1,47)	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	1:80:A:ALA:N	2	10.83
(1,240)	1:219:A:LEU:C	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	8	10.76
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	2	10.67
(1,241)	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	1:221:A:ALA:N	1	10.63
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	9	10.48
(1,161)	1:164:A:ASP:C	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	7	10.46
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	7	10.44
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	4	10.42
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	2	10.41
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	7	10.4
(1,71)	1:94:A:PHE:C	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	7	10.38
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	10	10.29
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	5	10.25
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	2	10.24
(1,178)	1:176:A:ALA:C	1:177:A:ILE:N	1:177:A:ILE:CA	1:177:A:ILE:C	1	10.12
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	4	10.12
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	3	10.11
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	1	10.11
(1,98)	1:114:A:VAL:N	1:114:A:VAL:CA	1:114:A:VAL:C	1:115:A:ILE:N	1	10.1
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	7	10.03
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	2	9.95
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	3	9.94
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	2	9.91
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	2	9.91
(1,273)	1:244:A:SER:C	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	6	9.89
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	6	9.86
(1,67)	1:91:A:ASP:N	1:91:A:ASP:CA	1:91:A:ASP:C	1:92:A:TRP:N	2	9.8
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	9	9.76
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	3	9.74
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	2	9.73
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	2	9.71
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	2	9.69
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	5	9.69
(1,248)	1:228:A:LYS:C	1:229:A:GLU:N	1:229:A:GLU:CA	1:229:A:GLU:C	1	9.62
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	1	9.62
(1,197)	1:191:A:ALA:C	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	6	9.58
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	3	9.58
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	2	9.54
(1,209)	1:197:A:VAL:C	1:198:A:ASP:N	1:198:A:ASP:CA	1:198:A:ASP:C	4	9.53
(1,38)	1:70:A:PHE:C	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	5	9.52
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	8	9.47
(1,258)	1:234:A:GLU:N	1:234:A:GLU:CA	1:234:A:GLU:C	1:235:A:GLY:N	5	9.46
(1,211)	1:198:A:ASP:C	1:199:A:ARG:N	1:199:A:ARG:CA	1:199:A:ARG:C	3	9.46
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	9	9.43
(1,76)	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	1:98:A:ASN:N	6	9.38
(1,115)	1:130:A:SER:C	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	4	9.33
(1,111)	1:127:A:GLY:C	1:128:A:GLU:N	1:128:A:GLU:CA	1:128:A:GLU:C	10	9.31

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	7	9.31
(1,53)	1:82:A:VAL:N	1:82:A:VAL:CA	1:82:A:VAL:C	1:83:A:TYR:N	4	9.29
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	4	9.28
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	7	9.21
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	6	9.16
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	6	9.1
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	6	9.08
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	1	9.03
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	5	9.02
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	10	8.97
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	9	8.95
(1,154)	1:160:A:SER:N	1:160:A:SER:CA	1:160:A:SER:C	1:161:A:ARG:N	1	8.91
(1,71)	1:94:A:PHE:C	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	9	8.89
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	5	8.87
(1,53)	1:82:A:VAL:N	1:82:A:VAL:CA	1:82:A:VAL:C	1:83:A:TYR:N	2	8.86
(1,54)	1:82:A:VAL:C	1:83:A:TYR:N	1:83:A:TYR:CA	1:83:A:TYR:C	5	8.83
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	4	8.82
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	1	8.81
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	3	8.78
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	9	8.73
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	5	8.73
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	6	8.7
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	3	8.69
(1,27)	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	1:66:A:ASN:N	5	8.69
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	7	8.66
(1,115)	1:130:A:SER:C	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	6	8.66
(1,162)	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1:166:A:ASP:N	7	8.65
(1,154)	1:160:A:SER:N	1:160:A:SER:CA	1:160:A:SER:C	1:161:A:ARG:N	7	8.65
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	8	8.65
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	6	8.64
(1,91)	1:108:A:GLY:C	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	3	8.64
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	7	8.64
(1,200)	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	1:194:A:MET:N	3	8.62
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	10	8.59
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	9	8.57
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	5	8.51
(1,150)	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	1:158:A:ALA:N	2	8.5
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	10	8.49
(1,198)	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	1:193:A:VAL:N	1	8.46
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	10	8.4
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	10	8.37
(1,139)	1:149:A:ALA:C	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	7	8.33
(1,75)	1:96:A:LYS:C	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	8	8.3
(1,168)	1:170:A:ALA:C	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	6	8.23
(1,274)	1:245:A:SER:N	1:245:A:SER:CA	1:245:A:SER:C	1:246:A:ARG:N	1	8.22
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	2	8.2
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	8	8.19
(1,251)	1:230:A:SER:C	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	9	8.15
(1,207)	1:196:A:PHE:C	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	3	8.14
(1,211)	1:198:A:ASP:C	1:199:A:ARG:N	1:199:A:ARG:CA	1:199:A:ARG:C	6	8.13
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	9	8.11

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,168)	1:170:A:ALA:C	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	9	8.09
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	9	8.08
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	1	8.04
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	4	8.01
(1,172)	1:172:A:LEU:C	1:173:A:VAL:N	1:173:A:VAL:CA	1:173:A:VAL:C	5	8.01
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	6	7.97
(1,239)	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	1:220:A:LEU:N	3	7.94
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	2	7.92
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	5	7.92
(1,168)	1:170:A:ALA:C	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	8	7.9
(1,181)	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	1:179:A:PRO:N	7	7.87
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	6	7.86
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	4	7.85
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	3	7.78
(1,127)	1:139:A:ASN:C	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	7	7.78
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	3	7.77
(1,202)	1:194:A:MET:N	1:194:A:MET:CA	1:194:A:MET:C	1:195:A:VAL:N	3	7.77
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	6	7.77
(1,47)	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	1:80:A:ALA:N	8	7.74
(1,200)	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	1:194:A:MET:N	8	7.73
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	5	7.71
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	1	7.64
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	8	7.6
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	2	7.59
(1,241)	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	1:221:A:ALA:N	9	7.58
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	8	7.58
(1,168)	1:170:A:ALA:C	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1	7.57
(1,243)	1:223:A:GLY:C	1:224:A:ALA:N	1:224:A:ALA:CA	1:224:A:ALA:C	8	7.56
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	5	7.55
(1,74)	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	1:97:A:ASN:N	7	7.53
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	7	7.52
(1,113)	1:129:A:LEU:C	1:130:A:SER:N	1:130:A:SER:CA	1:130:A:SER:C	10	7.5
(1,154)	1:160:A:SER:N	1:160:A:SER:CA	1:160:A:SER:C	1:161:A:ARG:N	8	7.46
(1,152)	1:158:A:ALA:N	1:158:A:ALA:CA	1:158:A:ALA:C	1:159:A:ILE:N	2	7.4
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	7	7.34
(1,181)	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	1:179:A:PRO:N	10	7.33
(1,90)	1:107:A:ASN:N	1:107:A:ASN:CA	1:107:A:ASN:C	1:108:A:GLY:N	7	7.31
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	5	7.3
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	10	7.29
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	5	7.26
(1,45)	1:78:A:THR:N	1:78:A:THR:CA	1:78:A:THR:C	1:79:A:ASP:N	9	7.25
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	8	7.16
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	2	7.16
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	1	7.11
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	8	7.05
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	3	7.0
(1,181)	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	1:179:A:PRO:N	9	6.99
(1,119)	1:132:A:ARG:C	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	6	6.92
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	10	6.91
(1,185)	1:182:A:ASP:C	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	7	6.86
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	6	6.83

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,35)	1:69:A:GLN:N	1:69:A:GLN:CA	1:69:A:GLN:C	1:70:A:PHE:N	5	6.82
(1,98)	1:114:A:VAL:N	1:114:A:VAL:CA	1:114:A:VAL:C	1:115:A:ILE:N	3	6.79
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	8	6.79
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	1	6.77
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	5	6.77
(1,196)	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	1:191:A:ALA:N	1	6.73
(1,216)	1:203:A:ALA:N	1:203:A:ALA:CA	1:203:A:ALA:C	1:204:A:LYS:N	2	6.72
(1,205)	1:195:A:VAL:C	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	9	6.69
(1,136)	1:147:A:ARG:N	1:147:A:ARG:CA	1:147:A:ARG:C	1:148:A:SER:N	4	6.69
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	4	6.67
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	4	6.66
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	7	6.64
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	1	6.62
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	2	6.6
(1,15)	1:58:A:LYS:C	1:59:A:ALA:N	1:59:A:ALA:CA	1:59:A:ALA:C	9	6.59
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	4	6.56
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	10	6.56
(1,149)	1:156:A:GLU:C	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	5	6.54
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	5	6.54
(1,100)	1:115:A:ILE:N	1:115:A:ILE:CA	1:115:A:ILE:C	1:116:A:ASP:N	5	6.51
(1,175)	1:174:A:ALA:N	1:174:A:ALA:CA	1:174:A:ALA:C	1:175:A:SER:N	5	6.49
(1,180)	1:177:A:ILE:C	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	1	6.48
(1,136)	1:147:A:ARG:N	1:147:A:ARG:CA	1:147:A:ARG:C	1:148:A:SER:N	8	6.48
(1,118)	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1:133:A:SER:N	4	6.47
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	8	6.43
(1,98)	1:114:A:VAL:N	1:114:A:VAL:CA	1:114:A:VAL:C	1:115:A:ILE:N	10	6.42
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	4	6.35
(1,139)	1:149:A:ALA:C	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	3	6.33
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	5	6.31
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	9	6.3
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	4	6.3
(1,217)	1:203:A:ALA:C	1:204:A:LYS:N	1:204:A:LYS:CA	1:204:A:LYS:C	6	6.23
(1,27)	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	1:66:A:ASN:N	10	6.23
(1,242)	1:220:A:LEU:C	1:221:A:ALA:N	1:221:A:ALA:CA	1:221:A:ALA:C	7	6.2
(1,116)	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	1:132:A:ARG:N	10	6.18
(1,225)	1:207:A:LYS:C	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	5	6.17
(1,216)	1:203:A:ALA:N	1:203:A:ALA:CA	1:203:A:ALA:C	1:204:A:LYS:N	3	6.16
(1,71)	1:94:A:PHE:C	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	10	6.16
(1,115)	1:130:A:SER:C	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	3	6.15
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	9	6.14
(1,36)	1:69:A:GLN:C	1:70:A:PHE:N	1:70:A:PHE:CA	1:70:A:PHE:C	8	6.14
(1,139)	1:149:A:ALA:C	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	2	6.08
(1,81)	1:100:A:GLY:C	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	6	6.06
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	8	6.04
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	7	6.03
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	2	6.03
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	7	6.02
(1,241)	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	1:221:A:ALA:N	7	6.01
(1,35)	1:69:A:GLN:N	1:69:A:GLN:CA	1:69:A:GLN:C	1:70:A:PHE:N	3	5.99
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	5	5.98
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	8	5.98

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,108)	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	1:125:A:LEU:N	1	5.96
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	2	5.91
(1,72)	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	1:96:A:LYS:N	10	5.86
(1,203)	1:194:A:MET:C	1:195:A:VAL:N	1:195:A:VAL:CA	1:195:A:VAL:C	7	5.84
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	1	5.83
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	5	5.83
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	4	5.82
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	4	5.82
(1,53)	1:82:A:VAL:N	1:82:A:VAL:CA	1:82:A:VAL:C	1:83:A:TYR:N	1	5.82
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	8	5.76
(1,67)	1:91:A:ASP:N	1:91:A:ASP:CA	1:91:A:ASP:C	1:92:A:TRP:N	6	5.74
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	9	5.71
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	6	5.69
(1,172)	1:172:A:LEU:C	1:173:A:VAL:N	1:173:A:VAL:CA	1:173:A:VAL:C	10	5.69
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	9	5.69
(1,78)	1:98:A:ASN:C	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	6	5.69
(1,139)	1:149:A:ALA:C	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	6	5.68
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	7	5.68
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	6	5.67
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	1	5.65
(1,172)	1:172:A:LEU:C	1:173:A:VAL:N	1:173:A:VAL:CA	1:173:A:VAL:C	8	5.63
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	4	5.63
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	4	5.61
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	7	5.58
(1,172)	1:172:A:LEU:C	1:173:A:VAL:N	1:173:A:VAL:CA	1:173:A:VAL:C	6	5.57
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	7	5.56
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	10	5.55
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	2	5.54
(1,41)	1:74:A:TYR:N	1:74:A:TYR:CA	1:74:A:TYR:C	1:75:A:SER:N	1	5.54
(1,119)	1:132:A:ARG:C	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	1	5.52
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	1	5.48
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	3	5.46
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	8	5.44
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	10	5.41
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	7	5.4
(1,226)	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	1:209:A:GLY:N	2	5.4
(1,115)	1:130:A:SER:C	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	9	5.36
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	2	5.36
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	6	5.34
(1,200)	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	1:194:A:MET:N	4	5.33
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	1	5.31
(1,119)	1:132:A:ARG:C	1:133:A:SER:N	1:133:A:SER:CA	1:133:A:SER:C	9	5.28
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	5	5.27
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	2	5.26
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	1	5.25
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	2	5.24
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	4	5.21
(1,175)	1:174:A:ALA:N	1:174:A:ALA:CA	1:174:A:ALA:C	1:175:A:SER:N	2	5.18
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	7	5.17
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	4	5.16
(1,30)	1:66:A:ASN:C	1:67:A:SER:N	1:67:A:SER:CA	1:67:A:SER:C	8	5.16

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	10	5.15
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	9	5.14
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	10	5.13
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	1	5.13
(1,136)	1:147:A:ARG:N	1:147:A:ARG:CA	1:147:A:ARG:C	1:148:A:SER:N	1	5.12
(1,74)	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	1:97:A:ASN:N	10	5.12
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	1	5.11
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	9	5.11
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	6	5.11
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	6	5.1
(1,205)	1:195:A:VAL:C	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	2	5.08
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	3	5.07
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	9	5.06
(1,48)	1:79:A:ASP:C	1:80:A:ALA:N	1:80:A:ALA:CA	1:80:A:ALA:C	5	5.04
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	7	5.03
(1,177)	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	1:176:A:ALA:N	10	5.0
(1,197)	1:191:A:ALA:C	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	4	4.96
(1,78)	1:98:A:ASN:C	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	10	4.96
(1,42)	1:76:A:PHE:C	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	10	4.93
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	2	4.92
(1,60)	1:86:A:ASN:C	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	7	4.87
(1,170)	1:171:A:ILE:C	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	9	4.82
(1,139)	1:149:A:ALA:C	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	9	4.79
(1,128)	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	1:141:A:ASP:N	7	4.78
(1,73)	1:95:A:THR:C	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	8	4.77
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	1	4.77
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	2	4.76
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	2	4.75
(1,27)	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	1:66:A:ASN:N	9	4.73
(1,240)	1:219:A:LEU:C	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	4	4.7
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	10	4.7
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	6	4.69
(1,205)	1:195:A:VAL:C	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	5	4.68
(1,76)	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	1:98:A:ASN:N	1	4.68
(1,227)	1:210:A:GLY:C	1:211:A:ASP:N	1:211:A:ASP:CA	1:211:A:ASP:C	9	4.65
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	2	4.64
(1,216)	1:203:A:ALA:N	1:203:A:ALA:CA	1:203:A:ALA:C	1:204:A:LYS:N	7	4.64
(1,197)	1:191:A:ALA:C	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	7	4.63
(1,258)	1:234:A:GLU:N	1:234:A:GLU:CA	1:234:A:GLU:C	1:235:A:GLY:N	2	4.62
(1,103)	1:120:A:THR:C	1:121:A:ARG:N	1:121:A:ARG:CA	1:121:A:ARG:C	4	4.62
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	3	4.61
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	9	4.61
(1,150)	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	1:158:A:ALA:N	9	4.58
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	9	4.57
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	9	4.57
(1,162)	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1:166:A:ASP:N	6	4.56
(1,217)	1:203:A:ALA:C	1:204:A:LYS:N	1:204:A:LYS:CA	1:204:A:LYS:C	10	4.55
(1,81)	1:100:A:GLY:C	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	9	4.55
(1,53)	1:82:A:VAL:N	1:82:A:VAL:CA	1:82:A:VAL:C	1:83:A:TYR:N	10	4.5
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	9	4.47
(1,35)	1:69:A:GLN:N	1:69:A:GLN:CA	1:69:A:GLN:C	1:70:A:PHE:N	2	4.47

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	1	4.44
(1,15)	1:58:A:LYS:C	1:59:A:ALA:N	1:59:A:ALA:CA	1:59:A:ALA:C	2	4.41
(1,27)	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	1:66:A:ASN:N	1	4.4
(1,199)	1:192:A:SER:C	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	3	4.39
(1,162)	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1:166:A:ASP:N	2	4.39
(1,208)	1:197:A:VAL:N	1:197:A:VAL:CA	1:197:A:VAL:C	1:198:A:ASP:N	3	4.37
(1,183)	1:180:A:THR:C	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	6	4.37
(1,162)	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1:166:A:ASP:N	8	4.36
(1,226)	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	1:209:A:GLY:N	9	4.32
(1,113)	1:129:A:LEU:C	1:130:A:SER:N	1:130:A:SER:CA	1:130:A:SER:C	7	4.31
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	10	4.3
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	9	4.29
(1,73)	1:95:A:THR:C	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	7	4.26
(1,183)	1:180:A:THR:C	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	2	4.25
(1,49)	1:80:A:ALA:N	1:80:A:ALA:CA	1:80:A:ALA:C	1:81:A:TYR:N	1	4.25
(1,27)	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	1:66:A:ASN:N	2	4.24
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	6	4.22
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	9	4.21
(1,91)	1:108:A:GLY:C	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1	4.21
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	3	4.19
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	6	4.16
(1,252)	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	1:232:A:ALA:N	6	4.15
(1,183)	1:180:A:THR:C	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	8	4.13
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	7	4.12
(1,260)	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	1:239:A:ARG:N	5	4.11
(1,53)	1:82:A:VAL:N	1:82:A:VAL:CA	1:82:A:VAL:C	1:83:A:TYR:N	7	4.11
(1,265)	1:240:A:LEU:C	1:241:A:ALA:N	1:241:A:ALA:CA	1:241:A:ALA:C	9	4.07
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	6	4.07
(1,81)	1:100:A:GLY:C	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	3	4.06
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	1	4.06
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	9	4.04
(1,260)	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	1:239:A:ARG:N	6	4.02
(1,100)	1:115:A:ILE:N	1:115:A:ILE:CA	1:115:A:ILE:C	1:116:A:ASP:N	4	4.01
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	7	4.01
(1,190)	1:186:A:ILE:N	1:186:A:ILE:CA	1:186:A:ILE:C	1:187:A:ASP:N	7	3.97
(1,168)	1:170:A:ALA:C	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	3	3.95
(1,83)	1:101:A:SER:C	1:102:A:VAL:N	1:102:A:VAL:CA	1:102:A:VAL:C	1	3.87
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	4	3.84
(1,256)	1:233:A:LEU:N	1:233:A:LEU:CA	1:233:A:LEU:C	1:234:A:GLU:N	9	3.83
(1,177)	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	1:176:A:ALA:N	6	3.83
(1,26)	1:64:A:ARG:C	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	9	3.79
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	7	3.78
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	7	3.77
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	3	3.77
(1,46)	1:78:A:THR:C	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	5	3.76
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	1	3.75
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	3	3.75
(1,183)	1:180:A:THR:C	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	4	3.74
(1,176)	1:174:A:ALA:C	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	4	3.72
(1,169)	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	1:172:A:LEU:N	8	3.72
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	7	3.72

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,43)	1:77:A:TRP:N	1:77:A:TRP:CA	1:77:A:TRP:C	1:78:A:THR:N	10	3.71
(1,271)	1:243:A:VAL:C	1:244:A:SER:N	1:244:A:SER:CA	1:244:A:SER:C	2	3.69
(1,181)	1:178:A:LYS:N	1:178:A:LYS:CA	1:178:A:LYS:C	1:179:A:PRO:N	3	3.66
(1,85)	1:102:A:VAL:C	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	5	3.66
(1,70)	1:93:A:ALA:C	1:94:A:PHE:N	1:94:A:PHE:CA	1:94:A:PHE:C	5	3.65
(1,196)	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	1:191:A:ALA:N	2	3.64
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	10	3.64
(1,36)	1:69:A:GLN:C	1:70:A:PHE:N	1:70:A:PHE:CA	1:70:A:PHE:C	9	3.63
(1,199)	1:192:A:SER:C	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	7	3.61
(1,113)	1:129:A:LEU:C	1:130:A:SER:N	1:130:A:SER:CA	1:130:A:SER:C	5	3.61
(1,16)	1:59:A:ALA:C	1:60:A:LEU:N	1:60:A:LEU:CA	1:60:A:LEU:C	7	3.59
(1,154)	1:160:A:SER:N	1:160:A:SER:CA	1:160:A:SER:C	1:161:A:ARG:N	9	3.58
(1,71)	1:94:A:PHE:C	1:95:A:THR:N	1:95:A:THR:CA	1:95:A:THR:C	6	3.58
(1,246)	1:225:A:ALA:N	1:225:A:ALA:CA	1:225:A:ALA:C	1:226:A:GLY:N	8	3.54
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	5	3.51
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	8	3.5
(1,195)	1:189:A:ALA:C	1:190:A:LYS:N	1:190:A:LYS:CA	1:190:A:LYS:C	1	3.49
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	10	3.49
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	7	3.49
(1,116)	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	1:132:A:ARG:N	4	3.48
(1,81)	1:100:A:GLY:C	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	5	3.48
(1,15)	1:58:A:LYS:C	1:59:A:ALA:N	1:59:A:ALA:CA	1:59:A:ALA:C	3	3.48
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	10	3.46
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	8	3.46
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	5	3.45
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	3	3.44
(1,136)	1:147:A:ARG:N	1:147:A:ARG:CA	1:147:A:ARG:C	1:148:A:SER:N	10	3.44
(1,168)	1:170:A:ALA:C	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	4	3.43
(1,62)	1:87:A:ARG:C	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	6	3.43
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	4	3.41
(1,177)	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	1:176:A:ALA:N	4	3.39
(1,132)	1:145:A:ILE:N	1:145:A:ILE:CA	1:145:A:ILE:C	1:146:A:LEU:N	8	3.39
(1,144)	1:153:A:ALA:N	1:153:A:ALA:CA	1:153:A:ALA:C	1:154:A:VAL:N	3	3.34
(1,183)	1:180:A:THR:C	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	1	3.33
(1,149)	1:156:A:GLU:C	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	6	3.32
(1,107)	1:123:A:ALA:C	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	4	3.28
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	7	3.27
(1,177)	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	1:176:A:ALA:N	1	3.26
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	5	3.26
(1,238)	1:218:A:HIS:C	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	6	3.25
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	6	3.24
(1,128)	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	1:141:A:ASP:N	9	3.22
(1,252)	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	1:232:A:ALA:N	5	3.19
(1,217)	1:203:A:ALA:C	1:204:A:LYS:N	1:204:A:LYS:CA	1:204:A:LYS:C	5	3.17
(1,184)	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	1:182:A:ASP:N	7	3.17
(1,108)	1:124:A:MET:N	1:124:A:MET:CA	1:124:A:MET:C	1:125:A:LEU:N	8	3.17
(1,46)	1:78:A:THR:C	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	2	3.17
(1,113)	1:129:A:LEU:C	1:130:A:SER:N	1:130:A:SER:CA	1:130:A:SER:C	4	3.16
(1,22)	1:62:A:ASN:C	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	5	3.16
(1,25)	1:64:A:ARG:N	1:64:A:ARG:CA	1:64:A:ARG:C	1:65:A:GLU:N	8	3.15
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	3	3.09

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,73)	1:95:A:THR:C	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	9	3.09
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	8	3.07
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	3	3.06
(1,15)	1:58:A:LYS:C	1:59:A:ALA:N	1:59:A:ALA:CA	1:59:A:ALA:C	1	3.06
(1,39)	1:71:A:SER:N	1:71:A:SER:CA	1:71:A:SER:C	1:72:A:THR:N	3	3.05
(1,231)	1:213:A:GLY:C	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	4	3.04
(1,154)	1:160:A:SER:N	1:160:A:SER:CA	1:160:A:SER:C	1:161:A:ARG:N	4	3.04
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	8	3.04
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	6	3.04
(1,35)	1:69:A:GLN:N	1:69:A:GLN:CA	1:69:A:GLN:C	1:70:A:PHE:N	7	3.03
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	9	3.02
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	5	3.01
(1,139)	1:149:A:ALA:C	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	1	2.99
(1,92)	1:109:A:TYR:N	1:109:A:TYR:CA	1:109:A:TYR:C	1:110:A:ASP:N	10	2.98
(1,76)	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	1:98:A:ASN:N	7	2.97
(1,15)	1:58:A:LYS:C	1:59:A:ALA:N	1:59:A:ALA:CA	1:59:A:ALA:C	6	2.97
(1,150)	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	1:158:A:ALA:N	7	2.96
(1,117)	1:131:A:GLU:C	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	4	2.95
(1,35)	1:69:A:GLN:N	1:69:A:GLN:CA	1:69:A:GLN:C	1:70:A:PHE:N	4	2.94
(1,252)	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	1:232:A:ALA:N	1	2.92
(1,47)	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	1:80:A:ALA:N	6	2.92
(1,31)	1:67:A:SER:N	1:67:A:SER:CA	1:67:A:SER:C	1:68:A:GLU:N	2	2.92
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	1	2.9
(1,154)	1:160:A:SER:N	1:160:A:SER:CA	1:160:A:SER:C	1:161:A:ARG:N	2	2.9
(1,142)	1:151:A:ARG:N	1:151:A:ARG:CA	1:151:A:ARG:C	1:152:A:ALA:N	4	2.89
(1,252)	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	1:232:A:ALA:N	10	2.87
(1,53)	1:82:A:VAL:N	1:82:A:VAL:CA	1:82:A:VAL:C	1:83:A:TYR:N	6	2.87
(1,157)	1:162:A:TYR:C	1:163:A:VAL:N	1:163:A:VAL:CA	1:163:A:VAL:C	1	2.86
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	10	2.86
(1,6)	1:54:A:PHE:N	1:54:A:PHE:CA	1:54:A:PHE:C	1:55:A:TYR:N	9	2.85
(1,250)	1:230:A:SER:N	1:230:A:SER:CA	1:230:A:SER:C	1:231:A:LEU:N	9	2.83
(1,149)	1:156:A:GLU:C	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	9	2.83
(1,26)	1:64:A:ARG:C	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	5	2.78
(1,198)	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	1:193:A:VAL:N	10	2.77
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	10	2.75
(1,81)	1:100:A:GLY:C	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	7	2.74
(1,197)	1:191:A:ALA:C	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	3	2.73
(1,133)	1:145:A:ILE:C	1:146:A:LEU:N	1:146:A:LEU:CA	1:146:A:LEU:C	9	2.73
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	3	2.71
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	2	2.7
(1,183)	1:180:A:THR:C	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	3	2.7
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	1	2.7
(1,49)	1:80:A:ALA:N	1:80:A:ALA:CA	1:80:A:ALA:C	1:81:A:TYR:N	3	2.69
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	6	2.69
(1,136)	1:147:A:ARG:N	1:147:A:ARG:CA	1:147:A:ARG:C	1:148:A:SER:N	2	2.68
(1,100)	1:115:A:ILE:N	1:115:A:ILE:CA	1:115:A:ILE:C	1:116:A:ASP:N	1	2.68
(1,115)	1:130:A:SER:C	1:131:A:GLU:N	1:131:A:GLU:CA	1:131:A:GLU:C	2	2.67
(1,47)	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	1:80:A:ALA:N	4	2.67
(1,200)	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	1:194:A:MET:N	1	2.66
(1,26)	1:64:A:ARG:C	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	1	2.65
(1,13)	1:57:A:GLU:C	1:58:A:LYS:N	1:58:A:LYS:CA	1:58:A:LYS:C	9	2.63

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,219)	1:204:A:LYS:C	1:205:A:LEU:N	1:205:A:LEU:CA	1:205:A:LEU:C	2	2.61
(1,31)	1:67:A:SER:N	1:67:A:SER:CA	1:67:A:SER:C	1:68:A:GLU:N	4	2.59
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	4	2.58
(1,130)	1:141:A:ASP:N	1:141:A:ASP:CA	1:141:A:ASP:C	1:142:A:THR:N	5	2.55
(1,49)	1:80:A:ALA:N	1:80:A:ALA:CA	1:80:A:ALA:C	1:81:A:TYR:N	4	2.54
(1,175)	1:174:A:ALA:N	1:174:A:ALA:CA	1:174:A:ALA:C	1:175:A:SER:N	3	2.53
(1,175)	1:174:A:ALA:N	1:174:A:ALA:CA	1:174:A:ALA:C	1:175:A:SER:N	9	2.53
(1,252)	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	1:232:A:ALA:N	7	2.52
(1,226)	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	1:209:A:GLY:N	5	2.51
(1,130)	1:141:A:ASP:N	1:141:A:ASP:CA	1:141:A:ASP:C	1:142:A:THR:N	6	2.51
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	2	2.47
(1,81)	1:100:A:GLY:C	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	1	2.45
(1,45)	1:78:A:THR:N	1:78:A:THR:CA	1:78:A:THR:C	1:79:A:ASP:N	1	2.44
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	3	2.43
(1,172)	1:172:A:LEU:C	1:173:A:VAL:N	1:173:A:VAL:CA	1:173:A:VAL:C	7	2.43
(1,235)	1:216:A:ASN:N	1:216:A:ASN:CA	1:216:A:ASN:C	1:217:A:LEU:N	9	2.42
(1,139)	1:149:A:ALA:C	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	4	2.42
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	3	2.41
(1,216)	1:203:A:ALA:N	1:203:A:ALA:CA	1:203:A:ALA:C	1:204:A:LYS:N	9	2.4
(1,166)	1:169:A:PRO:C	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	2	2.39
(1,23)	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	1:64:A:ARG:N	1	2.38
(1,238)	1:218:A:HIS:C	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	4	2.36
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	8	2.35
(1,261)	1:238:A:HIS:C	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	5	2.33
(1,251)	1:230:A:SER:C	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	8	2.33
(1,54)	1:82:A:VAL:C	1:83:A:TYR:N	1:83:A:TYR:CA	1:83:A:TYR:C	7	2.31
(1,26)	1:64:A:ARG:C	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	2	2.31
(1,175)	1:174:A:ALA:N	1:174:A:ALA:CA	1:174:A:ALA:C	1:175:A:SER:N	10	2.3
(1,149)	1:156:A:GLU:C	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	10	2.28
(1,240)	1:219:A:LEU:C	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	9	2.27
(1,100)	1:115:A:ILE:N	1:115:A:ILE:CA	1:115:A:ILE:C	1:116:A:ASP:N	8	2.27
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	6	2.25
(1,160)	1:164:A:ASP:N	1:164:A:ASP:CA	1:164:A:ASP:C	1:165:A:PHE:N	4	2.25
(1,76)	1:97:A:ASN:N	1:97:A:ASN:CA	1:97:A:ASN:C	1:98:A:ASN:N	3	2.22
(1,261)	1:238:A:HIS:C	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	10	2.21
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	10	2.21
(1,213)	1:199:A:ARG:C	1:200:A:LEU:N	1:200:A:LEU:CA	1:200:A:LEU:C	5	2.21
(1,172)	1:172:A:LEU:C	1:173:A:VAL:N	1:173:A:VAL:CA	1:173:A:VAL:C	9	2.2
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	10	2.16
(1,186)	1:183:A:HIS:N	1:183:A:HIS:CA	1:183:A:HIS:C	1:184:A:ALA:N	5	2.14
(1,162)	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1:166:A:ASP:N	5	2.14
(1,26)	1:64:A:ARG:C	1:65:A:GLU:N	1:65:A:GLU:CA	1:65:A:GLU:C	3	2.14
(1,109)	1:124:A:MET:C	1:125:A:LEU:N	1:125:A:LEU:CA	1:125:A:LEU:C	5	2.13
(1,238)	1:218:A:HIS:C	1:219:A:LEU:N	1:219:A:LEU:CA	1:219:A:LEU:C	9	2.1
(1,261)	1:238:A:HIS:C	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	1	2.09
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	7	2.09
(1,226)	1:208:A:LEU:N	1:208:A:LEU:CA	1:208:A:LEU:C	1:209:A:GLY:N	4	2.08
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	10	2.08
(1,137)	1:148:A:SER:C	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	6	2.07
(1,227)	1:210:A:GLY:C	1:211:A:ASP:N	1:211:A:ASP:CA	1:211:A:ASP:C	2	2.06
(1,268)	1:242:A:TRP:N	1:242:A:TRP:CA	1:242:A:TRP:C	1:243:A:VAL:N	10	2.05

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,22)	1:62:A:ASN:C	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	2	2.05
(1,229)	1:211:A:ASP:C	1:212:A:TYR:N	1:212:A:TYR:CA	1:212:A:TYR:C	2	2.04
(1,150)	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	1:158:A:ALA:N	8	2.04
(1,260)	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	1:239:A:ARG:N	8	2.01
(1,197)	1:191:A:ALA:C	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	9	1.99
(1,162)	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1:166:A:ASP:N	9	1.99
(1,147)	1:154:A:VAL:C	1:155:A:ASP:N	1:155:A:ASP:CA	1:155:A:ASP:C	10	1.98
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	7	1.97
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	1	1.96
(1,227)	1:210:A:GLY:C	1:211:A:ASP:N	1:211:A:ASP:CA	1:211:A:ASP:C	3	1.96
(1,118)	1:132:A:ARG:N	1:132:A:ARG:CA	1:132:A:ARG:C	1:133:A:SER:N	7	1.95
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	3	1.94
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	4	1.94
(1,183)	1:180:A:THR:C	1:181:A:SER:N	1:181:A:SER:CA	1:181:A:SER:C	5	1.93
(1,93)	1:111:A:GLY:C	1:112:A:VAL:N	1:112:A:VAL:CA	1:112:A:VAL:C	2	1.88
(1,69)	1:93:A:ALA:N	1:93:A:ALA:CA	1:93:A:ALA:C	1:94:A:PHE:N	5	1.87
(1,54)	1:82:A:VAL:C	1:83:A:TYR:N	1:83:A:TYR:CA	1:83:A:TYR:C	6	1.85
(1,101)	1:116:A:ASP:C	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	1	1.84
(1,164)	1:167:A:GLY:C	1:168:A:ALA:N	1:168:A:ALA:CA	1:168:A:ALA:C	10	1.82
(1,74)	1:96:A:LYS:N	1:96:A:LYS:CA	1:96:A:LYS:C	1:97:A:ASN:N	9	1.81
(1,64)	1:88:A:VAL:C	1:89:A:ASP:N	1:89:A:ASP:CA	1:89:A:ASP:C	5	1.79
(1,230)	1:212:A:TYR:N	1:212:A:TYR:CA	1:212:A:TYR:C	1:213:A:GLY:N	1	1.77
(1,157)	1:162:A:TYR:C	1:163:A:VAL:N	1:163:A:VAL:CA	1:163:A:VAL:C	9	1.75
(1,56)	1:83:A:TYR:C	1:84:A:LEU:N	1:84:A:LEU:CA	1:84:A:LEU:C	10	1.75
(1,222)	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	1:207:A:LYS:N	6	1.74
(1,102)	1:117:A:ASP:N	1:117:A:ASP:CA	1:117:A:ASP:C	1:118:A:ARG:N	4	1.73
(1,15)	1:58:A:LYS:C	1:59:A:ALA:N	1:59:A:ALA:CA	1:59:A:ALA:C	5	1.73
(1,150)	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	1:158:A:ALA:N	1	1.72
(1,241)	1:220:A:LEU:N	1:220:A:LEU:CA	1:220:A:LEU:C	1:221:A:ALA:N	5	1.71
(1,232)	1:214:A:ILE:N	1:214:A:ILE:CA	1:214:A:ILE:C	1:215:A:ALA:N	1	1.71
(1,261)	1:238:A:HIS:C	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	2	1.7
(1,167)	1:170:A:ALA:N	1:170:A:ALA:CA	1:170:A:ALA:C	1:171:A:ILE:N	1	1.68
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	7	1.67
(1,63)	1:88:A:VAL:N	1:88:A:VAL:CA	1:88:A:VAL:C	1:89:A:ASP:N	3	1.67
(1,157)	1:162:A:TYR:C	1:163:A:VAL:N	1:163:A:VAL:CA	1:163:A:VAL:C	3	1.66
(1,49)	1:80:A:ALA:N	1:80:A:ALA:CA	1:80:A:ALA:C	1:81:A:TYR:N	10	1.65
(1,49)	1:80:A:ALA:N	1:80:A:ALA:CA	1:80:A:ALA:C	1:81:A:TYR:N	6	1.64
(1,197)	1:191:A:ALA:C	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	2	1.62
(1,205)	1:195:A:VAL:C	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	7	1.6
(1,61)	1:87:A:ARG:N	1:87:A:ARG:CA	1:87:A:ARG:C	1:88:A:VAL:N	3	1.6
(1,149)	1:156:A:GLU:C	1:157:A:ALA:N	1:157:A:ALA:CA	1:157:A:ALA:C	4	1.59
(1,32)	1:67:A:SER:C	1:68:A:GLU:N	1:68:A:GLU:CA	1:68:A:GLU:C	4	1.59
(1,20)	1:61:A:GLN:C	1:62:A:ASN:N	1:62:A:ASN:CA	1:62:A:ASN:C	7	1.59
(1,171)	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	1:173:A:VAL:N	9	1.58
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	10	1.56
(1,261)	1:238:A:HIS:C	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	4	1.51
(1,172)	1:172:A:LEU:C	1:173:A:VAL:N	1:173:A:VAL:CA	1:173:A:VAL:C	4	1.51
(1,230)	1:212:A:TYR:N	1:212:A:TYR:CA	1:212:A:TYR:C	1:213:A:GLY:N	9	1.5
(1,221)	1:205:A:LEU:C	1:206:A:ALA:N	1:206:A:ALA:CA	1:206:A:ALA:C	10	1.47
(1,177)	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	1:176:A:ALA:N	8	1.47
(1,81)	1:100:A:GLY:C	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	2	1.46

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,41)	1:74:A:TYR:N	1:74:A:TYR:CA	1:74:A:TYR:C	1:75:A:SER:N	9	1.46
(1,261)	1:238:A:HIS:C	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	9	1.43
(1,251)	1:230:A:SER:C	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	4	1.42
(1,49)	1:80:A:ALA:N	1:80:A:ALA:CA	1:80:A:ALA:C	1:81:A:TYR:N	9	1.41
(1,162)	1:165:A:PHE:N	1:165:A:PHE:CA	1:165:A:PHE:C	1:166:A:ASP:N	4	1.39
(1,219)	1:204:A:LYS:C	1:205:A:LEU:N	1:205:A:LEU:CA	1:205:A:LEU:C	7	1.38
(1,170)	1:171:A:ILE:C	1:172:A:LEU:N	1:172:A:LEU:CA	1:172:A:LEU:C	4	1.37
(1,259)	1:237:A:PRO:C	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	6	1.34
(1,44)	1:77:A:TRP:C	1:78:A:THR:N	1:78:A:THR:CA	1:78:A:THR:C	10	1.34
(1,22)	1:62:A:ASN:C	1:63:A:ARG:N	1:63:A:ARG:CA	1:63:A:ARG:C	8	1.34
(1,262)	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	1:240:A:LEU:N	10	1.33
(1,227)	1:210:A:GLY:C	1:211:A:ASP:N	1:211:A:ASP:CA	1:211:A:ASP:C	6	1.33
(1,168)	1:170:A:ALA:C	1:171:A:ILE:N	1:171:A:ILE:CA	1:171:A:ILE:C	2	1.32
(1,70)	1:93:A:ALA:C	1:94:A:PHE:N	1:94:A:PHE:CA	1:94:A:PHE:C	4	1.3
(1,261)	1:238:A:HIS:C	1:239:A:ARG:N	1:239:A:ARG:CA	1:239:A:ARG:C	7	1.28
(1,177)	1:175:A:SER:N	1:175:A:SER:CA	1:175:A:SER:C	1:176:A:ALA:N	3	1.28
(1,175)	1:174:A:ALA:N	1:174:A:ALA:CA	1:174:A:ALA:C	1:175:A:SER:N	7	1.26
(1,46)	1:78:A:THR:C	1:79:A:ASP:N	1:79:A:ASP:CA	1:79:A:ASP:C	4	1.25
(1,45)	1:78:A:THR:N	1:78:A:THR:CA	1:78:A:THR:C	1:79:A:ASP:N	10	1.23
(1,252)	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	1:232:A:ALA:N	3	1.22
(1,31)	1:67:A:SER:N	1:67:A:SER:CA	1:67:A:SER:C	1:68:A:GLU:N	3	1.21
(1,140)	1:150:A:ARG:N	1:150:A:ARG:CA	1:150:A:ARG:C	1:151:A:ARG:N	2	1.2
(1,138)	1:149:A:ALA:N	1:149:A:ALA:CA	1:149:A:ALA:C	1:150:A:ARG:N	1	1.19
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	5	1.19
(1,230)	1:212:A:TYR:N	1:212:A:TYR:CA	1:212:A:TYR:C	1:213:A:GLY:N	10	1.18
(1,100)	1:115:A:ILE:N	1:115:A:ILE:CA	1:115:A:ILE:C	1:116:A:ASP:N	2	1.18
(1,128)	1:140:A:ALA:N	1:140:A:ALA:CA	1:140:A:ALA:C	1:141:A:ASP:N	4	1.16
(1,230)	1:212:A:TYR:N	1:212:A:TYR:CA	1:212:A:TYR:C	1:213:A:GLY:N	3	1.14
(1,156)	1:161:A:ARG:N	1:161:A:ARG:CA	1:161:A:ARG:C	1:162:A:TYR:N	9	1.13
(1,15)	1:58:A:LYS:C	1:59:A:ALA:N	1:59:A:ALA:CA	1:59:A:ALA:C	10	1.13
(1,251)	1:230:A:SER:C	1:231:A:LEU:N	1:231:A:LEU:CA	1:231:A:LEU:C	2	1.11
(1,198)	1:192:A:SER:N	1:192:A:SER:CA	1:192:A:SER:C	1:193:A:VAL:N	4	1.11
(1,85)	1:102:A:VAL:C	1:103:A:LEU:N	1:103:A:LEU:CA	1:103:A:LEU:C	4	1.1
(1,31)	1:67:A:SER:N	1:67:A:SER:CA	1:67:A:SER:C	1:68:A:GLU:N	6	1.1
(1,19)	1:61:A:GLN:N	1:61:A:GLN:CA	1:61:A:GLN:C	1:62:A:ASN:N	5	1.1
(1,206)	1:196:A:PHE:N	1:196:A:PHE:CA	1:196:A:PHE:C	1:197:A:VAL:N	2	1.08
(1,78)	1:98:A:ASN:C	1:99:A:LEU:N	1:99:A:LEU:CA	1:99:A:LEU:C	1	1.08
(1,132)	1:145:A:ILE:N	1:145:A:ILE:CA	1:145:A:ILE:C	1:146:A:LEU:N	6	1.07
(1,263)	1:239:A:ARG:C	1:240:A:LEU:N	1:240:A:LEU:CA	1:240:A:LEU:C	8	1.06
(1,200)	1:193:A:VAL:N	1:193:A:VAL:CA	1:193:A:VAL:C	1:194:A:MET:N	10	1.06
(1,260)	1:238:A:HIS:N	1:238:A:HIS:CA	1:238:A:HIS:C	1:239:A:ARG:N	3	1.04
(1,82)	1:101:A:SER:N	1:101:A:SER:CA	1:101:A:SER:C	1:102:A:VAL:N	6	1.02
(1,12)	1:57:A:GLU:N	1:57:A:GLU:CA	1:57:A:GLU:C	1:58:A:LYS:N	1	1.02