



Full wwPDB NMR Structure Validation Report ⓘ

Jun 6, 2023 – 01:17 PM EDT

PDB ID : 2MK9
BMRB ID : 19764
Title : Spatial structure of the dimeric transmembrane domain of Toll-like receptor 3
Authors : Mineev, K.S.; Goncharuk, S.A.; Arseniev, A.S.
Deposited on : 2014-02-04

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with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
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) : 2.33

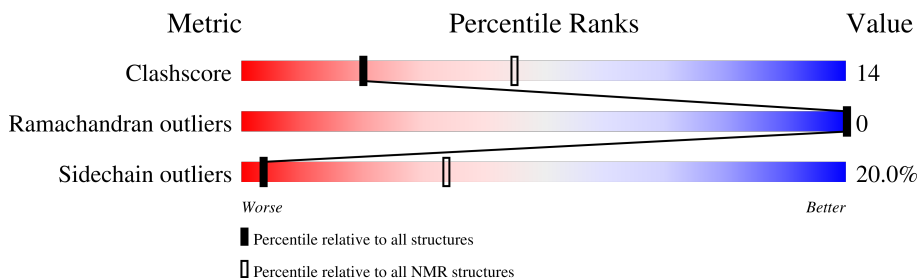
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 49%.

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	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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	34	
1	B	34	

2 Ensemble composition and analysis

This entry contains 10 models. Model 3 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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:8-A:32, B:110-B:132 (48)	0.57	3

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

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

The models can be grouped into 2 clusters and 2 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1172 atoms, of which 594 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Toll-like receptor 3.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	34	586	202	297	41	44	2	0
1	B	34	586	202	297	41	44	2	0

There are 2 discrepancies between the modelled and reference sequences:

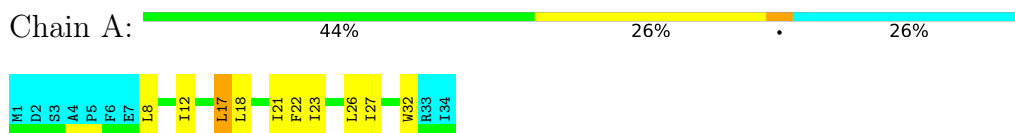
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP O15455
B	101	MET	-	initiating methionine	UNP O15455

4 Residue-property plots [i](#)

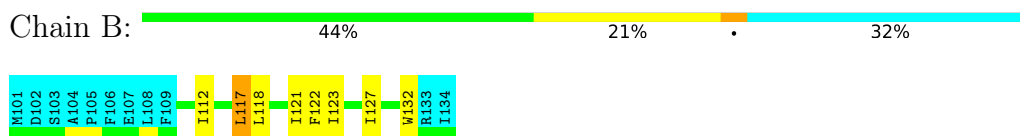
4.1 Average score per residue in the NMR ensemble

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: Toll-like receptor 3



- Molecule 1: Toll-like receptor 3

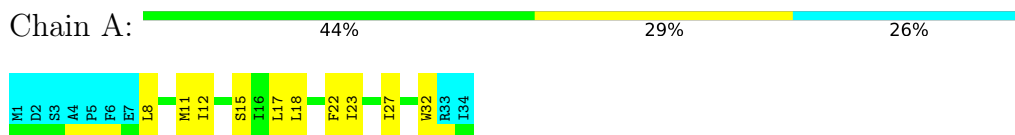


4.2 Scores per residue for each member of the ensemble

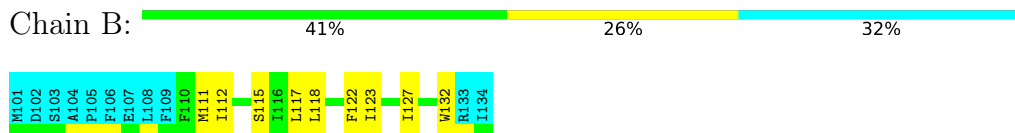
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Toll-like receptor 3

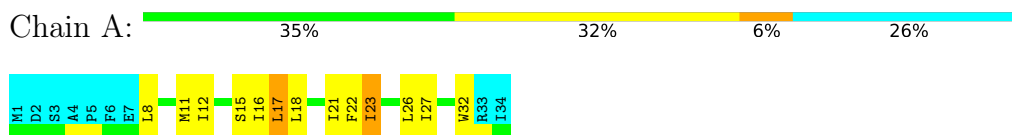


- Molecule 1: Toll-like receptor 3

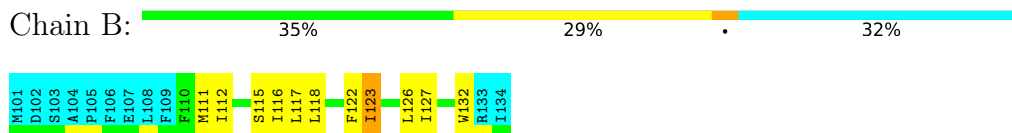


4.2.2 Score per residue for model 2

- Molecule 1: Toll-like receptor 3

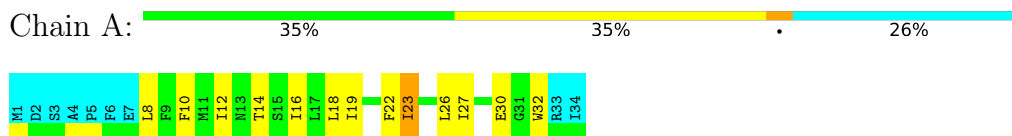


- Molecule 1: Toll-like receptor 3

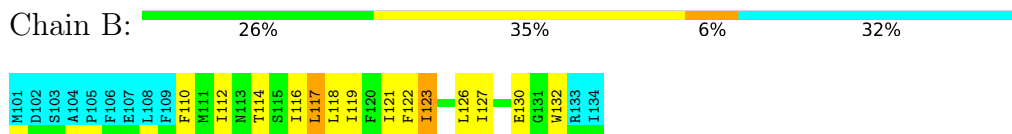


4.2.3 Score per residue for model 3 (medoid)

- Molecule 1: Toll-like receptor 3

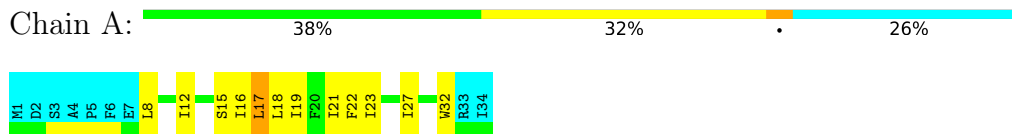


- Molecule 1: Toll-like receptor 3

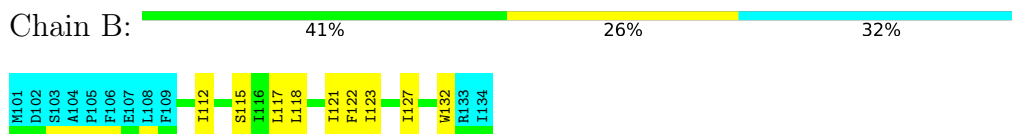


4.2.4 Score per residue for model 4

- Molecule 1: Toll-like receptor 3

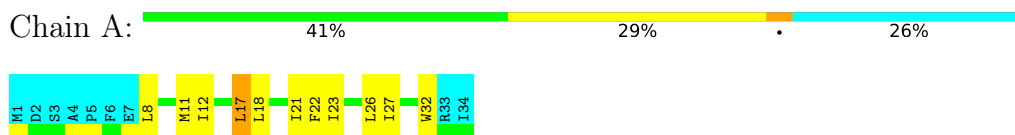


- Molecule 1: Toll-like receptor 3

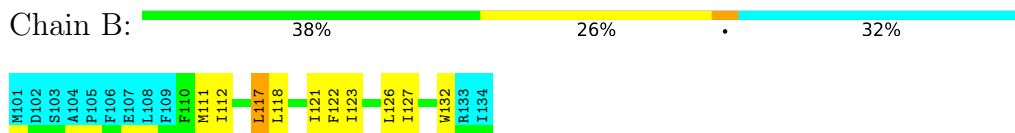


4.2.5 Score per residue for model 5

- Molecule 1: Toll-like receptor 3

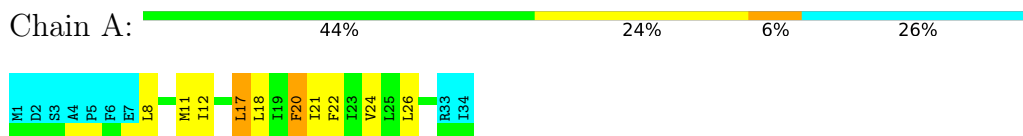


- Molecule 1: Toll-like receptor 3

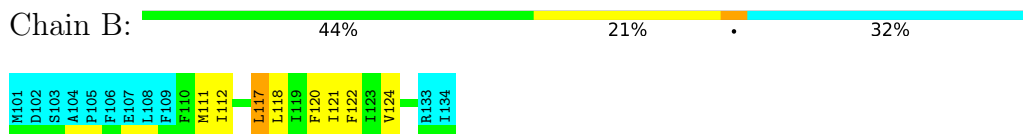


4.2.6 Score per residue for model 6

- Molecule 1: Toll-like receptor 3

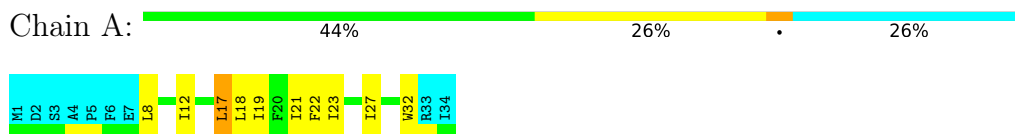


- Molecule 1: Toll-like receptor 3

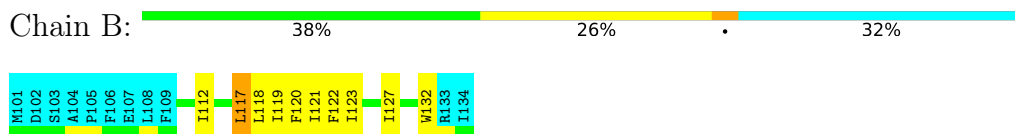


4.2.7 Score per residue for model 7

- Molecule 1: Toll-like receptor 3

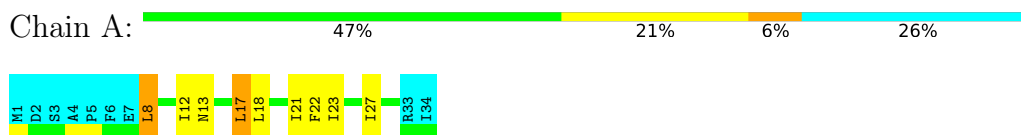


- Molecule 1: Toll-like receptor 3

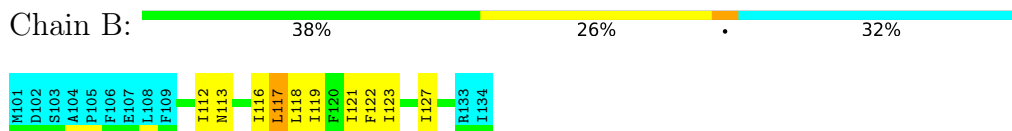


4.2.8 Score per residue for model 8

- Molecule 1: Toll-like receptor 3

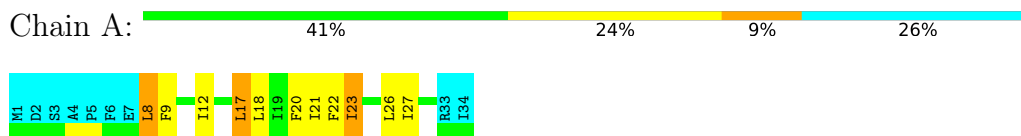


- Molecule 1: Toll-like receptor 3

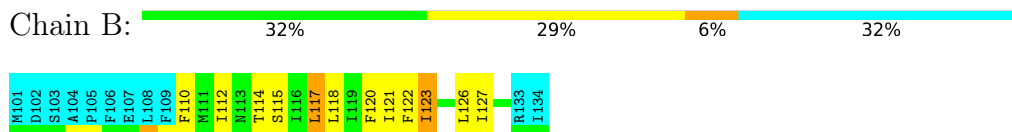


4.2.9 Score per residue for model 9

- Molecule 1: Toll-like receptor 3

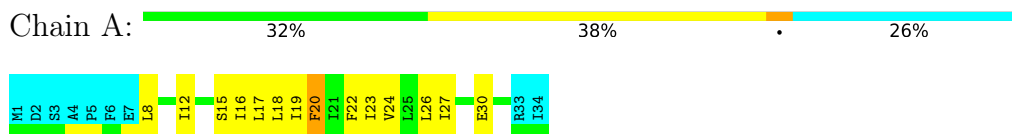


- Molecule 1: Toll-like receptor 3

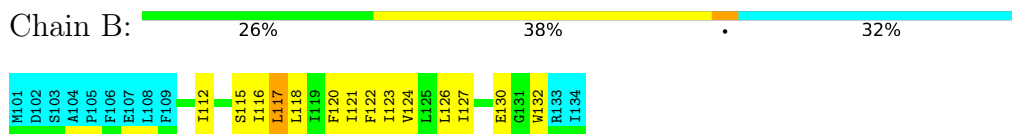


4.2.10 Score per residue for model 10

- Molecule 1: Toll-like receptor 3



- Molecule 1: Toll-like receptor 3



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
CYANA	structure solution	3.0
CYANA	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	486
Number of shifts mapped to atoms	486
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	49%

6 Model quality i

6.1 Standard geometry i

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	216	228	228	8±2
1	B	197	208	208	7±2
All	All	4130	4360	4360	116

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 14.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:18:LEU:HD12	1:B:118:LEU:HD12	0.82	1.49	3	10
1:A:18:LEU:HD22	1:A:22:PHE:CZ	0.65	2.27	4	9
1:A:8:LEU:O	1:A:12:ILE:HD12	0.65	1.92	7	10
1:B:118:LEU:HD22	1:B:122:PHE:CZ	0.62	2.29	2	9
1:A:12:ILE:O	1:A:16:ILE:HD12	0.59	1.97	2	2
1:B:122:PHE:O	1:B:126:LEU:HD13	0.59	1.98	5	1
1:A:18:LEU:CD1	1:B:118:LEU:HD12	0.59	2.27	3	9
1:B:112:ILE:O	1:B:116:ILE:HD12	0.58	1.99	2	2
1:A:22:PHE:O	1:A:26:LEU:HD13	0.58	1.98	5	2
1:A:18:LEU:HD12	1:B:118:LEU:CD1	0.57	2.29	2	9
1:A:26:LEU:HD21	1:B:123:ILE:HG13	0.54	1.80	10	1
1:A:23:ILE:CG1	1:B:126:LEU:HD21	0.53	2.34	2	3
1:A:23:ILE:HG13	1:B:126:LEU:HD21	0.52	1.82	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:LEU:HD21	1:B:123:ILE:CG1	0.51	2.35	2	4
1:B:117:LEU:HD22	1:B:121:ILE:HD11	0.50	1.84	7	8
1:B:110:PHE:O	1:B:114:THR:HG22	0.49	2.07	9	2
1:A:17:LEU:HD22	1:A:21:ILE:CD1	0.48	2.39	9	3
1:A:20:PHE:O	1:A:24:VAL:HG23	0.48	2.08	10	2
1:A:17:LEU:HD22	1:A:21:ILE:HD11	0.47	1.85	7	7
1:B:118:LEU:HD22	1:B:122:PHE:CE2	0.47	2.45	7	1
1:B:117:LEU:HD22	1:B:121:ILE:CD1	0.47	2.40	3	5
1:A:18:LEU:HD22	1:A:22:PHE:CE2	0.45	2.47	7	1
1:B:116:ILE:HA	1:B:119:ILE:HD12	0.45	1.89	3	2
1:A:16:ILE:HA	1:A:19:ILE:HD12	0.44	1.88	4	2
1:A:22:PHE:O	1:A:26:LEU:HD23	0.44	2.12	10	1
1:B:120:PHE:O	1:B:124:VAL:HG23	0.44	2.13	10	2
1:A:19:ILE:O	1:A:23:ILE:HD13	0.43	2.13	10	2
1:B:119:ILE:O	1:B:123:ILE:HD13	0.43	2.13	7	1
1:A:26:LEU:HD21	1:B:123:ILE:HD11	0.42	1.90	9	1
1:B:122:PHE:O	1:B:126:LEU:HD23	0.41	2.14	10	1
1:A:26:LEU:O	1:A:30:GLU:N	0.41	2.53	3	1
1:A:10:PHE:O	1:A:14:THR:HG22	0.41	2.16	3	1
1:B:126:LEU:O	1:B:130:GLU:N	0.40	2.53	3	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	25/34 (74%)	22±1 (86±3%)	4±1 (14±3%)	0±0 (0±0%)	100	100
1	B	23/34 (68%)	20±1 (85±3%)	4±1 (15±3%)	0±0 (0±0%)	100	100
All	All	480/680 (71%)	410 (85%)	70 (15%)	0 (0%)	100	100

There are no Ramachandran outliers.

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	24/32 (75%)	19±1 (80±5%)	5±1 (20±5%)	4	34
1	B	22/32 (69%)	18±1 (80±5%)	4±1 (20±5%)	3	33
All	All	460/640 (72%)	368 (80%)	92 (20%)	4	34

All 20 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	17	LEU	9
1	A	27	ILE	9
1	B	117	LEU	9
1	B	127	ILE	9
1	A	23	ILE	7
1	B	123	ILE	7
1	B	132	TRP	7
1	A	32	TRP	6
1	B	115	SER	5
1	A	11	MET	4
1	A	15	SER	4
1	B	111	MET	4
1	A	20	PHE	3
1	B	120	PHE	2
1	A	8	LEU	2
1	A	13	ASN	1
1	B	113	ASN	1
1	A	9	PHE	1
1	A	30	GLU	1
1	B	130	GLU	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 49% for the well-defined parts and 46% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping i

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

Total number of shifts	486
Number of shifts mapped to atoms	486
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	34	-0.65 ± 0.21	Should be checked
$^{13}\text{C}_\beta$	33	0.71 ± 0.12	Should be checked
$^{13}\text{C}'$	31	0.28 ± 0.09	None needed (< 0.5 ppm)
^{15}N	33	0.88 ± 0.36	Should be applied

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 49%, i.e. 377 atoms were assigned a chemical shift out of a possible 768. 0 out of 11 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	125/242 (52%)	51/98 (52%)	49/96 (51%)	25/48 (52%)
Sidechain	203/398 (51%)	140/271 (52%)	63/125 (50%)	0/2 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	49/128 (38%)	29/65 (45%)	20/59 (34%)	0/4 (0%)
Overall	377/768 (49%)	220/434 (51%)	132/280 (47%)	25/54 (46%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 46%, i.e. 484 atoms were assigned a chemical shift out of a possible 1052. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	165/338 (49%)	67/136 (49%)	65/136 (48%)	33/66 (50%)
Sidechain	267/556 (48%)	184/374 (49%)	82/174 (47%)	1/8 (12%)
Aromatic	52/158 (33%)	31/80 (39%)	21/74 (28%)	0/4 (0%)
Overall	484/1052 (46%)	282/590 (48%)	168/384 (44%)	34/78 (44%)

7.1.4 Statistically unusual chemical shifts [i](#)

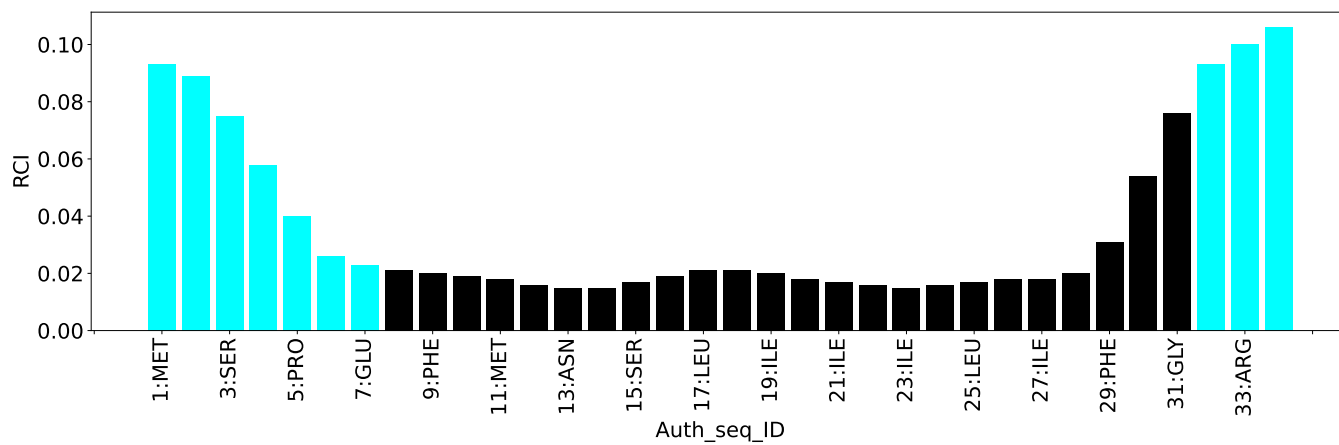
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	14	THR	HG1	4.58	0.08 – 2.19	16.3

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	913
Intra-residue ($ i-j =0$)	264
Sequential ($ i-j =1$)	270
Medium range ($ i-j >1$ and $ i-j <5$)	325
Long range ($ i-j \geq 5$)	12
Inter-chain	42
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	4
Number of restraints per residue	13.4
Number of long range restraints per residue ¹	0.2

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)	25.1	0.2
0.2-0.5 (Medium)	10.2	0.5
>0.5 (Large)	35.4	13.2

8.2.2 Average number of dihedral-angle violations per model

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

9 Distance violation analysis i

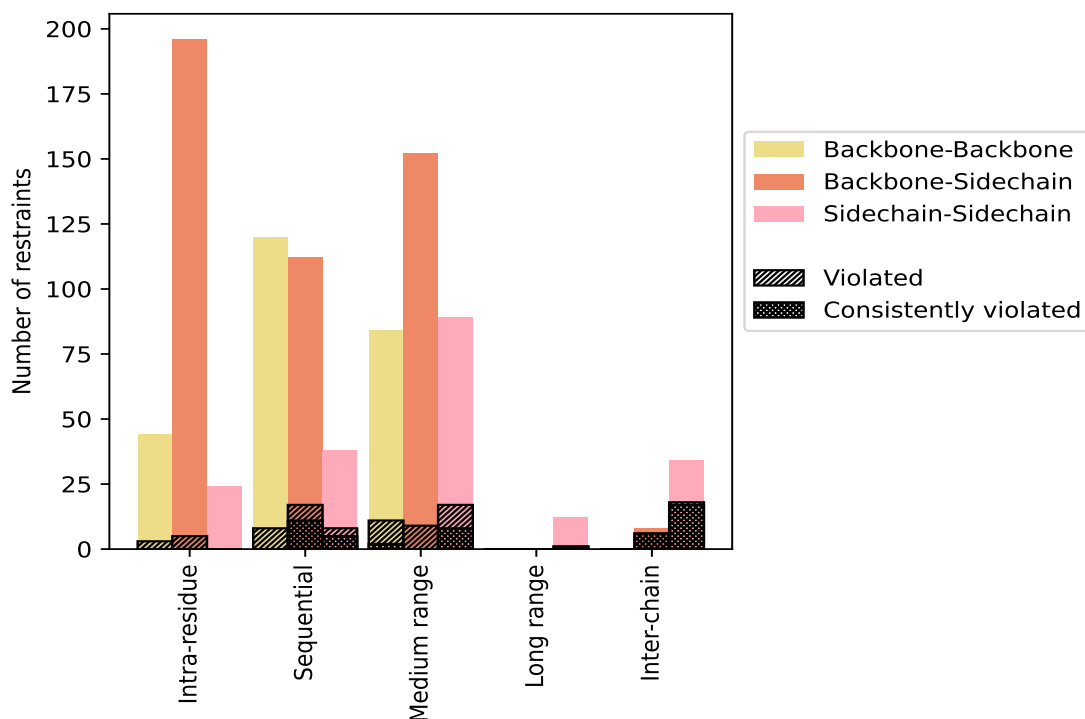
9.1 Summary of distance violations i

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	264	28.9	8	3.0	0.9	0	0.0	0.0
Backbone-Backbone	44	4.8	3	6.8	0.3	0	0.0	0.0
Backbone-Sidechain	196	21.5	5	2.6	0.5	0	0.0	0.0
Sidechain-Sidechain	24	2.6	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	270	29.6	33	12.2	3.6	16	5.9	1.8
Backbone-Backbone	120	13.1	8	6.7	0.9	0	0.0	0.0
Backbone-Sidechain	112	12.3	17	15.2	1.9	11	9.8	1.2
Sidechain-Sidechain	38	4.2	8	21.1	0.9	5	13.2	0.5
Medium range ($i-j >1$ & $i-j <5$)	325	35.6	37	11.4	4.1	10	3.1	1.1
Backbone-Backbone	84	9.2	11	13.1	1.2	2	2.4	0.2
Backbone-Sidechain	152	16.6	9	5.9	1.0	0	0.0	0.0
Sidechain-Sidechain	89	9.7	17	19.1	1.9	8	9.0	0.9
Long range ($i-j \geq 5$)	12	1.3	1	8.3	0.1	1	8.3	0.1
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	12	1.3	1	8.3	0.1	1	8.3	0.1
Inter-chain	42	4.6	24	57.1	2.6	23	54.8	2.5
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	8	0.9	6	75.0	0.7	6	75.0	0.7
Sidechain-Sidechain	34	3.7	18	52.9	2.0	17	50.0	1.9
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	913	100.0	103	11.3	11.3	50	5.5	5.5
Backbone-Backbone	248	27.2	22	8.9	2.4	2	0.8	0.2
Backbone-Sidechain	468	51.3	37	7.9	4.1	17	3.6	1.9
Sidechain-Sidechain	197	21.6	44	22.3	4.8	31	15.7	3.4

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

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



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfid bonds are counted in their appropriate category on the x-axis

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

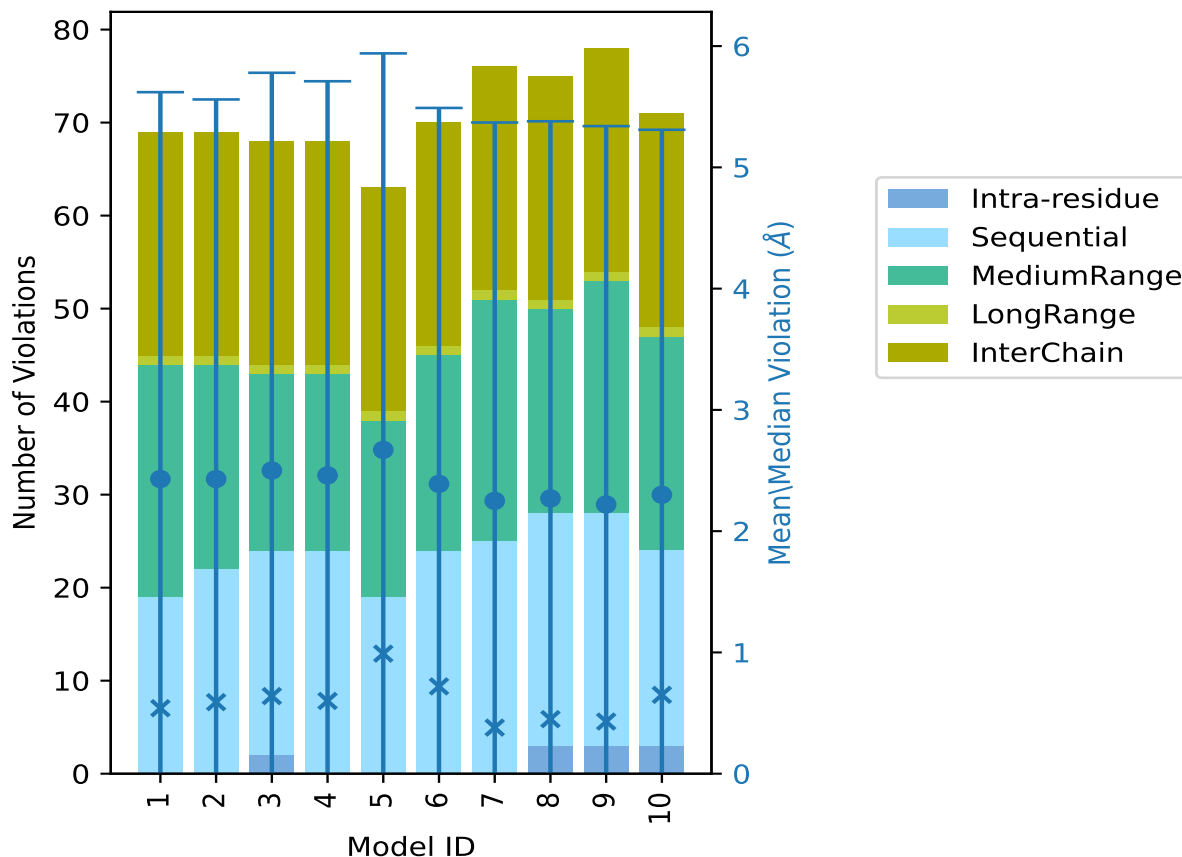
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	19	25	1	24	69	2.43	12.37	3.19	0.54
2	0	22	22	1	24	69	2.43	11.73	3.13	0.59
3	2	22	19	1	24	68	2.5	13.2	3.28	0.64
4	0	24	19	1	24	68	2.46	12.64	3.25	0.6
5	0	19	19	1	24	63	2.67	12.63	3.27	0.99
6	0	24	21	1	24	70	2.39	11.82	3.1	0.72
7	0	25	26	1	24	76	2.25	12.28	3.12	0.38
8	3	25	22	1	24	75	2.27	12.58	3.11	0.45
9	3	25	25	1	24	78	2.22	13.07	3.12	0.43
10	3	21	23	1	23	71	2.3	10.88	3.01	0.65

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, 810(IR:256, SQ:237, MR:288, LR:11, IC:18) 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	%
5	8	7	0	0	20	1	10.0
3	0	6	0	0	9	2	20.0
0	0	2	0	0	2	3	30.0
0	0	0	0	0	0	4	40.0

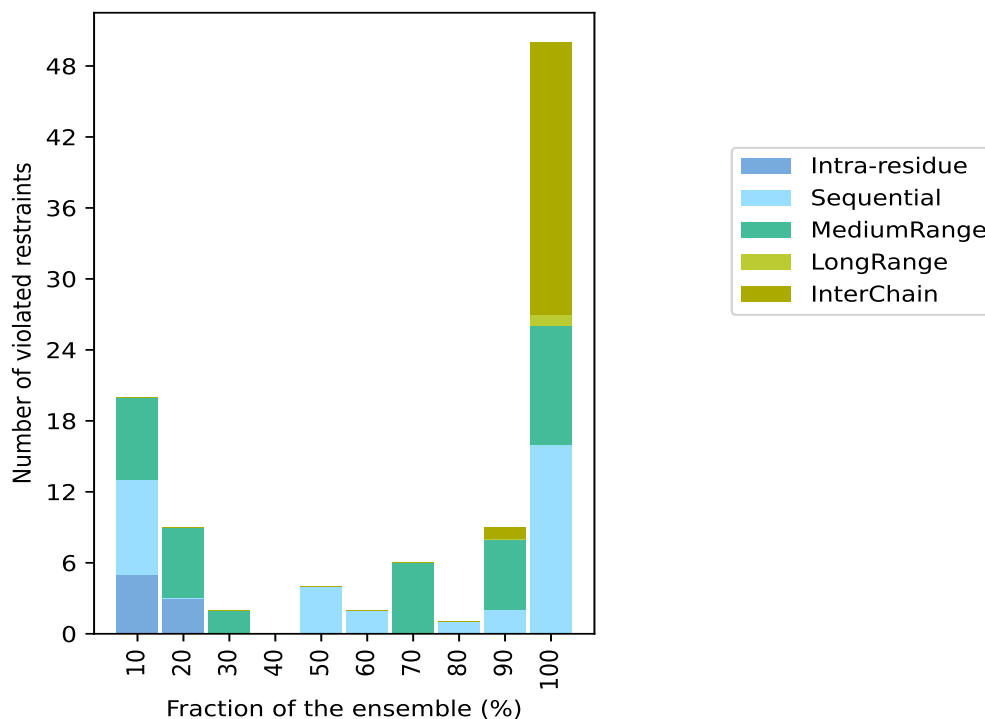
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	4	0	0	0	4	5	50.0
0	2	0	0	0	2	6	60.0
0	0	6	0	0	6	7	70.0
0	1	0	0	0	1	8	80.0
0	2	6	0	1	9	9	90.0
0	16	10	1	23	50	10	100.0

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

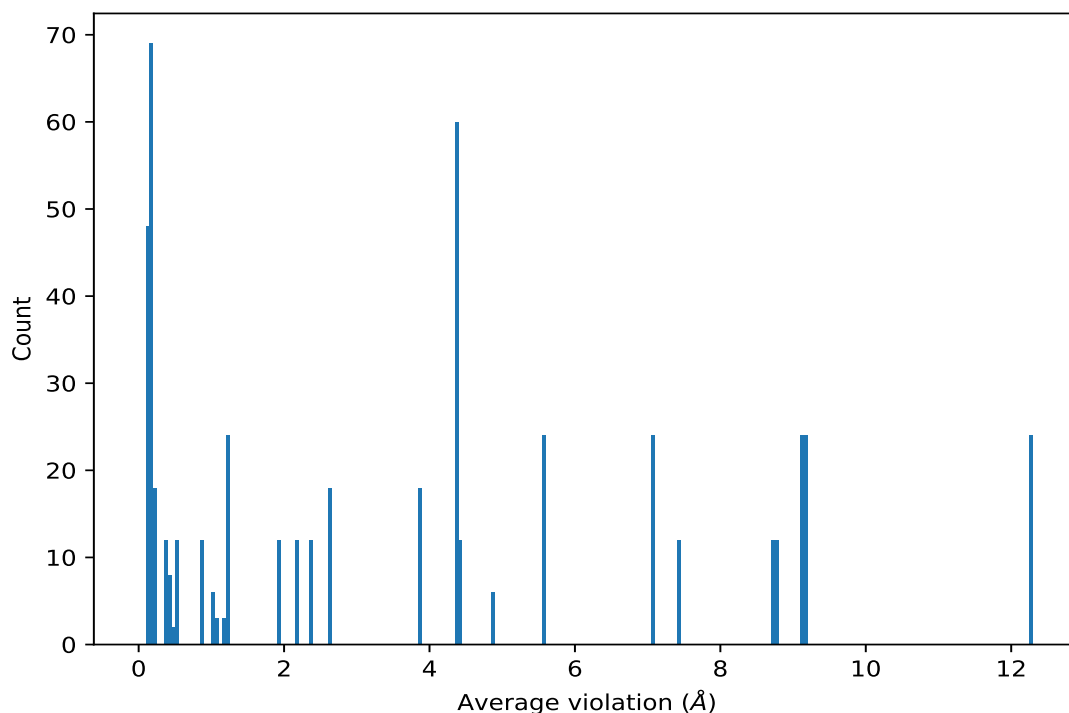
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	10	12.29	0.63	12.47
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	10	12.29	0.63	12.47
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	10	12.27	0.64	12.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	10	12.27	0.64	12.32
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	10	12.27	0.64	12.32
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	10	9.15	0.05	9.15
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	10	9.15	0.05	9.15
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	10	9.14	0.09	9.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	10	9.14	0.09	9.16
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	10	9.14	0.09	9.16
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	10	8.75	0.12	8.78
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	10	8.75	0.12	8.78
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	10	8.73	0.13	8.79
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	10	8.73	0.13	8.79
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	10	7.41	0.06	7.42
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	10	7.41	0.06	7.42
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	10	7.41	0.06	7.42
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	10	7.41	0.06	7.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	10	7.41	0.06	7.42
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	10	7.41	0.06	7.42
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	10	7.41	0.1	7.42
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	10	7.41	0.1	7.42
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	10	7.41	0.1	7.42
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	10	7.41	0.1	7.42
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	10	7.41	0.1	7.42
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	10	7.41	0.1	7.42
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	10	7.08	0.21	7.04
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	10	7.08	0.21	7.04
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	10	7.07	0.31	7.0
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	10	7.07	0.31	7.0
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	10	5.57	0.38	5.7

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	10	5.57	0.38	5.7
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	10	5.57	0.38	5.7
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	10	5.56	0.41	5.7
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	10	5.56	0.41	5.7
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	10	4.87	0.15	4.92
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	10	4.87	0.15	4.92
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	10	4.87	0.15	4.92
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	10	4.87	0.11	4.91
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	10	4.87	0.11	4.91
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	10	4.87	0.11	4.91
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	10	4.4	0.21	4.32
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	10	4.4	0.21	4.32
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	10	4.39	0.25	4.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	10	4.39	0.25	4.3
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	10	4.39	0.25	4.3
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	10	4.36	0.05	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	10	4.36	0.05	4.37
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	10	4.36	0.08	4.39

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	10	4.36	0.08	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	10	4.36	0.08	4.39
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	10	3.88	0.12	3.9
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	10	3.88	0.12	3.9
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	10	3.85	0.33	3.74
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	10	3.85	0.33	3.74
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	10	3.85	0.33	3.74
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	10	3.85	0.34	3.76
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	10	3.85	0.34	3.76
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	10	3.85	0.34	3.76
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	10	2.62	0.02	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	10	2.62	0.02	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	10	2.62	0.02	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	10	2.62	0.02	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	10	2.62	0.02	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	10	2.62	0.02	2.61
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	10	2.62	0.02	2.62
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	10	2.62	0.02	2.62
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	10	2.62	0.02	2.62
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	10	2.62	0.02	2.62
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	10	2.62	0.02	2.62
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	10	2.62	0.02	2.62
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	10	2.62	0.02	2.62
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	10	2.62	0.02	2.62
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	10	2.62	0.02	2.62
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	10	2.62	0.02	2.62

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	10	2.62	0.02	2.62
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	10	2.62	0.02	2.62
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	10	2.36	0.39	2.2
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	10	2.36	0.39	2.2
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	10	2.17	0.26	2.23
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	10	2.17	0.26	2.23
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	10	1.91	0.01	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	10	1.91	0.01	1.9
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	10	1.22	0.45	1.06

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	10	1.22	0.45	1.06
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	10	1.22	0.45	1.06
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	10	1.17	0.01	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	10	1.17	0.01	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	10	1.17	0.01	1.17
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	10	1.06	0.16	1.1
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	10	1.06	0.16	1.1
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	10	1.06	0.16	1.1
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	10	1.04	0.17	1.06
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	10	1.04	0.17	1.06
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	10	1.04	0.17	1.06
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	10	1.04	0.17	1.06
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	10	1.04	0.17	1.06
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	10	1.04	0.17	1.06
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	10	0.88	0.1	0.88
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	10	0.88	0.1	0.88
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	10	0.88	0.1	0.88
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	10	0.88	0.1	0.88
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	10	0.88	0.1	0.88
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	10	0.88	0.1	0.88
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	10	0.85	0.03	0.84
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	10	0.85	0.03	0.84
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	10	0.85	0.03	0.84
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	10	0.85	0.03	0.84

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	10	0.85	0.03	0.84
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	10	0.85	0.03	0.84
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	10	0.53	0.13	0.46
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	10	0.53	0.13	0.46
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	10	0.53	0.13	0.46
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	10	0.53	0.13	0.46
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	10	0.52	0.13	0.46
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	10	0.52	0.13	0.46
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	10	0.52	0.13	0.46
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	10	0.52	0.13	0.46
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	10	0.52	0.13	0.46
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	10	0.52	0.13	0.46
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	10	0.52	0.13	0.46
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	10	0.52	0.13	0.46
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	10	0.45	0.01	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	10	0.45	0.01	0.45
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	10	0.43	0.14	0.46
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	10	0.43	0.14	0.46
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	10	0.43	0.14	0.46
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	10	0.43	0.14	0.46
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	10	0.43	0.14	0.46
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	10	0.43	0.14	0.46
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	10	0.4	0.0	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	10	0.4	0.0	0.4
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	10	0.38	0.09	0.34
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	10	0.38	0.09	0.34
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	10	0.24	0.02	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	10	0.24	0.02	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	10	0.24	0.02	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	10	0.24	0.02	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	10	0.24	0.02	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	10	0.24	0.02	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	10	0.23	0.02	0.23
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	10	0.23	0.02	0.23
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	10	0.23	0.02	0.23
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	10	0.23	0.02	0.23
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	10	0.23	0.02	0.23
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	10	0.23	0.02	0.23
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	10	0.19	0.02	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	10	0.19	0.02	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	10	0.19	0.02	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	10	0.19	0.02	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	10	0.19	0.02	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	10	0.19	0.02	0.18
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	10	0.19	0.02	0.18
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	10	0.19	0.02	0.18
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	10	0.19	0.02	0.18
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	10	0.19	0.02	0.18
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	10	0.19	0.02	0.18
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	10	0.19	0.02	0.18
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	10	0.19	0.02	0.18
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	10	0.19	0.02	0.18
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	10	0.19	0.02	0.18
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	10	0.19	0.02	0.18
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	10	0.19	0.02	0.18
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	10	0.19	0.02	0.18
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	10	0.18	0.11	0.16
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	10	0.18	0.11	0.16
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	10	0.11	0.0	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	10	0.11	0.0	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	10	0.11	0.0	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	10	0.11	0.0	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	10	0.11	0.0	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	10	0.11	0.0	0.11

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	9	0.17	0.05	0.15
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	9	0.17	0.05	0.15
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	9	0.17	0.05	0.15
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	9	0.17	0.05	0.15
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	9	0.17	0.05	0.15
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	9	0.17	0.05	0.15
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	9	0.17	0.03	0.18
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	9	0.17	0.03	0.18
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	9	0.17	0.03	0.18
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	9	0.15	0.03	0.15
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	9	0.15	0.03	0.15
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	9	0.15	0.03	0.15
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	9	0.15	0.03	0.15
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	9	0.14	0.03	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	9	0.14	0.03	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	9	0.14	0.03	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	9	0.14	0.03	0.13
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	9	0.11	0.0	0.11
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	9	0.11	0.0	0.11
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	8	0.11	0.0	0.11
(1,241)	1:A:19:ILE:HA	1:A:22:PHE:H	7	0.15	0.02	0.15
(1,242)	1:B:119:ILE:HA	1:B:122:PHE:H	7	0.15	0.02	0.15
(1,680)	1:A:19:ILE:HA	1:A:22:PHE:H	7	0.15	0.02	0.15
(1,113)	1:A:26:LEU:HA	1:A:29:PHE:H	7	0.12	0.01	0.12
(1,114)	1:B:126:LEU:HA	1:B:129:PHE:H	7	0.12	0.01	0.12
(1,552)	1:A:26:LEU:HA	1:A:29:PHE:H	7	0.12	0.01	0.12
(1,355)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	6	0.15	0.02	0.16
(1,355)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	6	0.15	0.02	0.16
(1,355)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	6	0.15	0.02	0.16
(1,790)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	6	0.15	0.02	0.16
(1,790)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	6	0.15	0.02	0.16
(1,790)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	6	0.15	0.02	0.16

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,190)	1:B:132:TRP:HB2	1:B:133:ARG:H	5	0.24	0.06	0.27
(1,190)	1:B:132:TRP:HB3	1:B:133:ARG:H	5	0.24	0.06	0.27
(1,189)	1:A:32:TRP:HB2	1:A:33:ARG:H	5	0.22	0.06	0.25
(1,189)	1:A:32:TRP:HB3	1:A:33:ARG:H	5	0.22	0.06	0.25
(1,628)	1:A:32:TRP:HB2	1:A:33:ARG:H	5	0.22	0.06	0.25
(1,628)	1:A:32:TRP:HB3	1:A:33:ARG:H	5	0.22	0.06	0.25
(1,356)	1:B:127:ILE:HG21	1:B:128:HIS:HB2	5	0.15	0.02	0.16
(1,356)	1:B:127:ILE:HG22	1:B:128:HIS:HB2	5	0.15	0.02	0.16
(1,356)	1:B:127:ILE:HG23	1:B:128:HIS:HB2	5	0.15	0.02	0.16
(1,343)	1:A:25:LEU:HD11	1:A:29:PHE:HD1	3	0.13	0.01	0.13
(1,343)	1:A:25:LEU:HD11	1:A:29:PHE:HD2	3	0.13	0.01	0.13
(1,343)	1:A:25:LEU:HD12	1:A:29:PHE:HD1	3	0.13	0.01	0.13
(1,343)	1:A:25:LEU:HD12	1:A:29:PHE:HD2	3	0.13	0.01	0.13
(1,343)	1:A:25:LEU:HD13	1:A:29:PHE:HD1	3	0.13	0.01	0.13
(1,343)	1:A:25:LEU:HD13	1:A:29:PHE:HD2	3	0.13	0.01	0.13
(1,778)	1:A:25:LEU:HD11	1:A:29:PHE:HD1	3	0.13	0.01	0.13
(1,778)	1:A:25:LEU:HD11	1:A:29:PHE:HD2	3	0.13	0.01	0.13
(1,778)	1:A:25:LEU:HD12	1:A:29:PHE:HD1	3	0.13	0.01	0.13
(1,778)	1:A:25:LEU:HD12	1:A:29:PHE:HD2	3	0.13	0.01	0.13
(1,778)	1:A:25:LEU:HD13	1:A:29:PHE:HD1	3	0.13	0.01	0.13
(1,778)	1:A:25:LEU:HD13	1:A:29:PHE:HD2	3	0.13	0.01	0.13
(1,225)	1:A:34:ILE:H	1:A:34:ILE:HA	2	0.16	0.01	0.16
(1,664)	1:A:34:ILE:H	1:A:34:ILE:HA	2	0.16	0.01	0.16
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG21	2	0.15	0.0	0.15
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG22	2	0.15	0.0	0.15
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG23	2	0.15	0.0	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG21	2	0.15	0.0	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG22	2	0.15	0.0	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG23	2	0.15	0.0	0.15
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG21	2	0.15	0.0	0.15
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG22	2	0.15	0.0	0.15
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG23	2	0.15	0.0	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG21	2	0.15	0.0	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG22	2	0.15	0.0	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG23	2	0.15	0.0	0.15
(1,226)	1:B:134:ILE:H	1:B:134:ILE:HA	2	0.14	0.03	0.14
(1,273)	1:A:26:LEU:HA	1:A:30:GLU:H	2	0.12	0.02	0.12
(1,274)	1:B:126:LEU:HA	1:B:130:GLU:H	2	0.12	0.02	0.12
(1,712)	1:A:26:LEU:HA	1:A:30:GLU:H	2	0.12	0.02	0.12
(1,344)	1:B:125:LEU:HD11	1:B:129:PHE:HD1	2	0.12	0.01	0.12
(1,344)	1:B:125:LEU:HD11	1:B:129:PHE:HD2	2	0.12	0.01	0.12
(1,344)	1:B:125:LEU:HD12	1:B:129:PHE:HD1	2	0.12	0.01	0.12

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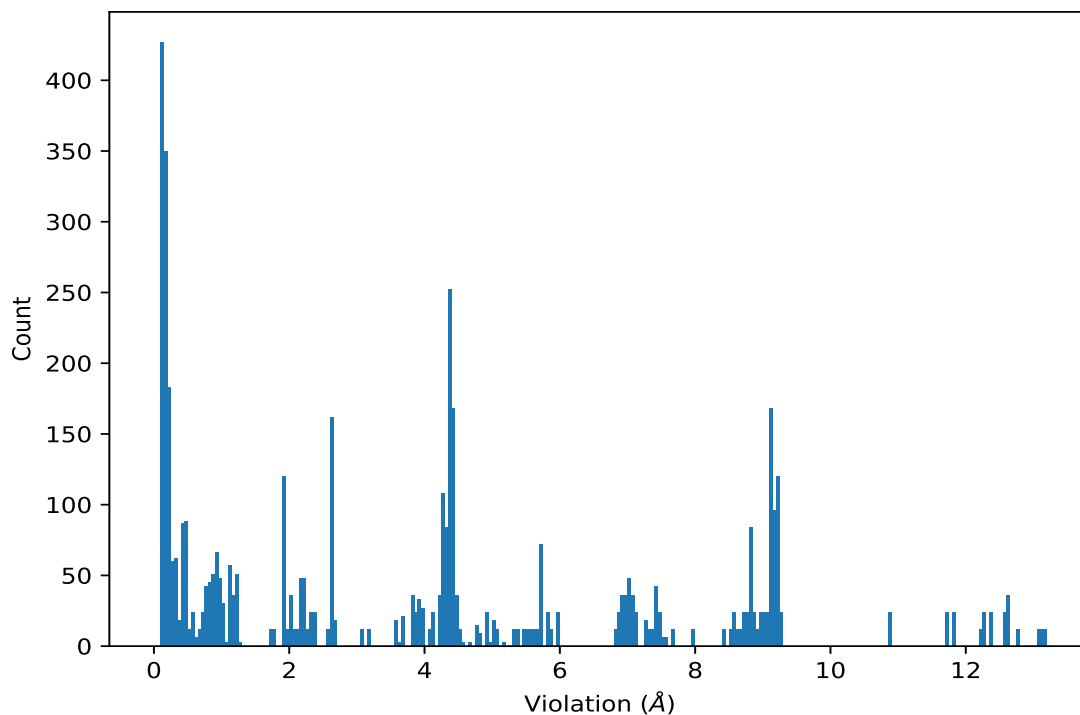
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,344)	1:B:125:LEU:HD12	1:B:129:PHE:HD2	2	0.12	0.01	0.12
(1,344)	1:B:125:LEU:HD13	1:B:129:PHE:HD1	2	0.12	0.01	0.12
(1,344)	1:B:125:LEU:HD13	1:B:129:PHE:HD2	2	0.12	0.01	0.12

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)
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	3	13.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	3	13.2
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	3	13.2
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	3	13.2
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	3	13.2
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	3	13.2
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	3	13.2
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	3	13.2
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	3	13.2
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	3	13.2
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	3	13.2
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	3	13.2
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	3	13.12
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	3	13.12
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	3	13.12
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	3	13.12
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	3	13.12
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	3	13.12
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	3	13.12
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	3	13.12
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	3	13.12
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	3	13.12
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	3	13.12
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	3	13.12
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	9	13.07
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	9	13.07
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	9	13.07
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	9	13.07
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	9	13.07
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	9	13.07
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	9	13.07
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	9	13.07
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	9	13.07
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	9	13.07
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	9	13.07
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	9	13.07
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	9	12.78
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	9	12.78
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	9	12.78
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	9	12.78
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	9	12.78
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	9	12.78
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	9	12.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	9	12.78
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	9	12.78
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	9	12.78
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	9	12.78
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	9	12.78
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	4	12.64
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	4	12.64
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	4	12.64
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	4	12.64
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	4	12.64
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	4	12.64
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	4	12.64
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	4	12.64
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	4	12.64
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	4	12.64
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	4	12.64
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	4	12.64
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	5	12.63
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	5	12.63
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	5	12.63
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	5	12.63
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	5	12.63
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	5	12.63
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	5	12.63
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	5	12.63
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	5	12.63
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	5	12.63
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	5	12.63
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	5	12.63
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	5	12.63
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	5	12.63
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	5	12.63
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	5	12.63
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	5	12.63
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	5	12.63
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	5	12.63
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	5	12.63
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	5	12.63
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	5	12.63
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	5	12.63
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	5	12.63
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	4	12.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	4	12.59
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	4	12.59
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	4	12.59
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	4	12.59
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	4	12.59
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	4	12.59
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	4	12.59
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	4	12.59
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	4	12.59
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	4	12.59
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	4	12.59
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	8	12.58
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	8	12.58
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	8	12.58
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	8	12.58
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	8	12.58
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	8	12.58
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	8	12.58
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	8	12.58
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	8	12.58
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	8	12.58
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	8	12.58
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	8	12.58
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	1	12.37
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	1	12.37
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	1	12.37
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	1	12.37
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	1	12.37
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	1	12.37
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	1	12.37
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	1	12.37
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	1	12.37
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	1	12.37
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	1	12.37
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	1	12.37
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	1	12.36
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	1	12.36
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	1	12.36
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	1	12.36
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	1	12.36
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	1	12.36
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	1	12.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	1	12.36
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	1	12.36
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	1	12.36
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	1	12.36
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	1	12.36
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	8	12.28
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	8	12.28
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	8	12.28
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	8	12.28
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	8	12.28
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	8	12.28
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	8	12.28
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	8	12.28
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	8	12.28
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	8	12.28
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	8	12.28
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	8	12.28
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	7	12.28
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	7	12.28
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	7	12.28
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	7	12.28
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	7	12.28
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	7	12.28
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	7	12.28
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	7	12.28
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	7	12.28
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	7	12.28
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	7	12.28
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	7	12.28
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	7	12.23
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	7	12.23
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	7	12.23
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	7	12.23
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	7	12.23
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	7	12.23
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	7	12.23
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	7	12.23
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	7	12.23
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	7	12.23
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	7	12.23
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	7	12.23
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	6	11.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	6	11.82
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	6	11.82
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	6	11.82
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	6	11.82
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	6	11.82
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	6	11.82
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	6	11.82
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	6	11.82
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	6	11.82
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	6	11.82
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	6	11.82
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	6	11.8
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	6	11.8
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	6	11.8
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	6	11.8
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	6	11.8
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	6	11.8
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	6	11.8
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	6	11.8
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	6	11.8
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	6	11.8
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	6	11.8
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	6	11.8
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	2	11.73
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	2	11.73
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	2	11.73
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	2	11.73
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	2	11.73
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	2	11.73
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	2	11.73
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	2	11.73
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	2	11.73
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	2	11.73
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	2	11.73
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	2	11.73
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	2	11.71
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	2	11.71
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	2	11.71
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	2	11.71
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	2	11.71
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	2	11.71
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	2	11.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	2	11.71
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	2	11.71
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	2	11.71
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	2	11.71
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	2	11.71
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD1	10	10.88
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HD2	10	10.88
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE1	10	10.88
(1,861)	1:A:16:ILE:HD11	1:B:109:PHE:HE2	10	10.88
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD1	10	10.88
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HD2	10	10.88
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE1	10	10.88
(1,861)	1:A:16:ILE:HD12	1:B:109:PHE:HE2	10	10.88
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD1	10	10.88
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HD2	10	10.88
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE1	10	10.88
(1,861)	1:A:16:ILE:HD13	1:B:109:PHE:HE2	10	10.88
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD11	10	10.86
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD12	10	10.86
(1,863)	1:A:9:PHE:HD1	1:B:116:ILE:HD13	10	10.86
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD11	10	10.86
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD12	10	10.86
(1,863)	1:A:9:PHE:HD2	1:B:116:ILE:HD13	10	10.86
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD11	10	10.86
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD12	10	10.86
(1,863)	1:A:9:PHE:HE1	1:B:116:ILE:HD13	10	10.86
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD11	10	10.86
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD12	10	10.86
(1,863)	1:A:9:PHE:HE2	1:B:116:ILE:HD13	10	10.86
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	7	9.27
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	7	9.27
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	7	9.27
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	7	9.27
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	7	9.27
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	7	9.27
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	7	9.27
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	7	9.27
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	7	9.27
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	7	9.27
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	7	9.27
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	7	9.27
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	7	9.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	7	9.27
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	7	9.27
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	7	9.27
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	7	9.27
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	7	9.27
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	7	9.27
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	7	9.27
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	7	9.27
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	7	9.27
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	7	9.27
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	7	9.27
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	4	9.23
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	4	9.23
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	4	9.23
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	4	9.23
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	4	9.23
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	4	9.23
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	4	9.23
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	4	9.23
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	4	9.23
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	4	9.23
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	4	9.23
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	4	9.23
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	4	9.23
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	4	9.23
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	4	9.23
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	4	9.23
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	4	9.23
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	4	9.23
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	4	9.23
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	4	9.23
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	4	9.23
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	4	9.23
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	4	9.23
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	4	9.23
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	2	9.23
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	2	9.23
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	2	9.23
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	2	9.23
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	2	9.23
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	2	9.23
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	2	9.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	2	9.23
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	2	9.23
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	2	9.23
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	2	9.23
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	2	9.23
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	2	9.23
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	2	9.23
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	2	9.23
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	2	9.23
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	2	9.23
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	2	9.23
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	2	9.23
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	2	9.23
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	2	9.23
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	2	9.23
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	2	9.23
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	2	9.23
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	1	9.21
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	1	9.21
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	1	9.21
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	1	9.21
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	1	9.21
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	1	9.21
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	1	9.21
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	1	9.21
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	1	9.21
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	1	9.21
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	1	9.21
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	1	9.21
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	1	9.21
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	1	9.21
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	1	9.21
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	1	9.21
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	1	9.21
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	1	9.21
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	1	9.21
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	1	9.21
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	1	9.21
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	1	9.21
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	1	9.21
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	1	9.21
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	1	9.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	1	9.21
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	1	9.21
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	1	9.21
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	1	9.21
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	1	9.21
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	1	9.21
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	1	9.21
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	1	9.21
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	1	9.21
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	1	9.21
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	1	9.21
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	1	9.21
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	1	9.21
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	1	9.21
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	1	9.21
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	1	9.21
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	1	9.21
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	1	9.21
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	1	9.21
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	1	9.21
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	1	9.21
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	1	9.21
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	1	9.21
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	2	9.2
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	2	9.2
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	2	9.2
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	2	9.2
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	2	9.2
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	2	9.2
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	2	9.2
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	2	9.2
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	2	9.2
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	2	9.2
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	2	9.2
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	2	9.2
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	2	9.2
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	2	9.2
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	2	9.2
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	2	9.2
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	2	9.2
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	2	9.2
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	2	9.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	2	9.2
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	2	9.2
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	2	9.2
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	2	9.2
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	2	9.2
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	4	9.19
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	4	9.19
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	4	9.19
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	4	9.19
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	4	9.19
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	4	9.19
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	4	9.19
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	4	9.19
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	4	9.19
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	4	9.19
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	4	9.19
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	4	9.19
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	4	9.19
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	4	9.19
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	4	9.19
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	4	9.19
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	4	9.19
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	4	9.19
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	4	9.19
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	4	9.19
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	4	9.19
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	4	9.19
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	4	9.19
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	4	9.19
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	8	9.18
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	8	9.18
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	8	9.18
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	8	9.18
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	8	9.18
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	8	9.18
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	8	9.18
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	8	9.18
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	8	9.18
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	8	9.18
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	8	9.18
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	8	9.18
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	8	9.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	8	9.18
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	8	9.18
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	8	9.18
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	8	9.18
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	8	9.18
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	8	9.18
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	8	9.18
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	8	9.18
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	8	9.18
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	8	9.18
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	8	9.18
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	3	9.16
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	3	9.16
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	3	9.16
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	3	9.16
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	3	9.16
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	3	9.16
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	3	9.16
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	3	9.16
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	3	9.16
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	3	9.16
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	3	9.16
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	3	9.16
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	3	9.16
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	3	9.16
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	3	9.16
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	3	9.16
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	3	9.16
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	3	9.16
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	3	9.16
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	3	9.16
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	3	9.16
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	3	9.16
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	3	9.16
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	3	9.16
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	10	9.16
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	10	9.16
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	10	9.16
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	10	9.16
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	10	9.16
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	10	9.16
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	10	9.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	10	9.16
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	10	9.16
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	10	9.16
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	10	9.16
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	10	9.16
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	10	9.16
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	10	9.16
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	10	9.16
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	10	9.16
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	10	9.16
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	10	9.16
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	10	9.16
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	10	9.16
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	10	9.16
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	10	9.16
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	10	9.16
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	10	9.16
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	7	9.14
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	7	9.14
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	7	9.14
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	7	9.14
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	7	9.14
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	7	9.14
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	7	9.14
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	7	9.14
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	7	9.14
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	7	9.14
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	7	9.14
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	7	9.14
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	7	9.14
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	7	9.14
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	7	9.14
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	7	9.14
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	7	9.14
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	7	9.14
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	7	9.14
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	7	9.14
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	7	9.14
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	7	9.14
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	7	9.14
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	7	9.14
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	8	9.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	8	9.13
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	8	9.13
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	8	9.13
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	8	9.13
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	8	9.13
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	8	9.13
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	8	9.13
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	8	9.13
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	8	9.13
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	8	9.13
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	8	9.13
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	8	9.13
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	8	9.13
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	8	9.13
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	8	9.13
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	8	9.13
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	8	9.13
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	8	9.13
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	8	9.13
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	8	9.13
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	8	9.13
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	8	9.13
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	8	9.13
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	5	9.13
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	5	9.13
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	5	9.13
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	5	9.13
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	5	9.13
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	5	9.13
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	5	9.13
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	5	9.13
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	5	9.13
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	5	9.13
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	5	9.13
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	5	9.13
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	5	9.13
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	5	9.13
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	5	9.13
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	5	9.13
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	5	9.13
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	5	9.13
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	5	9.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	5	9.13
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	5	9.13
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	5	9.13
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	5	9.13
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	5	9.13
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	3	9.12
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	3	9.12
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	3	9.12
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	3	9.12
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	3	9.12
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	3	9.12
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	3	9.12
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	3	9.12
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	3	9.12
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	3	9.12
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	3	9.12
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	3	9.12
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	3	9.12
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	3	9.12
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	3	9.12
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	3	9.12
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	3	9.12
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	3	9.12
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	3	9.12
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	3	9.12
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	3	9.12
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	3	9.12
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	3	9.12
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	3	9.12
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	5	9.1
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	5	9.1
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	5	9.1
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	5	9.1
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	5	9.1
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	5	9.1
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	5	9.1
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	5	9.1
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	5	9.1
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	5	9.1
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	5	9.1
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	5	9.1
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	5	9.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	5	9.1
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	5	9.1
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	5	9.1
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	5	9.1
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	5	9.1
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	5	9.1
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	5	9.1
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	5	9.1
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	5	9.1
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	5	9.1
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	5	9.1
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	6	9.1
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	6	9.1
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	6	9.1
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	6	9.1
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	6	9.1
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	6	9.1
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	6	9.1
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	6	9.1
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	6	9.1
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	6	9.1
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	6	9.1
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	6	9.1
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	6	9.1
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	6	9.1
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	6	9.1
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	6	9.1
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	6	9.1
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	6	9.1
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	6	9.1
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	6	9.1
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	6	9.1
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	6	9.1
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	6	9.1
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	6	9.1
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	10	9.1
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	10	9.1
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	10	9.1
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	10	9.1
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	10	9.1
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	10	9.1
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	10	9.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	10	9.1
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	10	9.1
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	10	9.1
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	10	9.1
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	10	9.1
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	10	9.1
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	10	9.1
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	10	9.1
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	10	9.1
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	10	9.1
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	10	9.1
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	10	9.1
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	10	9.1
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	10	9.1
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	10	9.1
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	10	9.1
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	10	9.1
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD1	9	9.08
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HD2	9	9.08
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE1	9	9.08
(1,869)	1:A:17:LEU:HD11	1:B:120:PHE:HE2	9	9.08
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD1	9	9.08
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HD2	9	9.08
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE1	9	9.08
(1,869)	1:A:17:LEU:HD12	1:B:120:PHE:HE2	9	9.08
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD1	9	9.08
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HD2	9	9.08
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE1	9	9.08
(1,869)	1:A:17:LEU:HD13	1:B:120:PHE:HE2	9	9.08
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD1	9	9.08
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HD2	9	9.08
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE1	9	9.08
(1,869)	1:A:17:LEU:HD21	1:B:120:PHE:HE2	9	9.08
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD1	9	9.08
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HD2	9	9.08
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE1	9	9.08
(1,869)	1:A:17:LEU:HD22	1:B:120:PHE:HE2	9	9.08
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD1	9	9.08
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HD2	9	9.08
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE1	9	9.08
(1,869)	1:A:17:LEU:HD23	1:B:120:PHE:HE2	9	9.08
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	6	9.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	6	9.04
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	6	9.04
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	6	9.04
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	6	9.04
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	6	9.04
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	6	9.04
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	6	9.04
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	6	9.04
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	6	9.04
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	6	9.04
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	6	9.04
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	6	9.04
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	6	9.04
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	6	9.04
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	6	9.04
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	6	9.04
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	6	9.04
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	6	9.04
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	6	9.04
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	6	9.04
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	6	9.04
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	6	9.04
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	6	9.04
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD11	9	8.97
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD12	9	8.97
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD13	9	8.97
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD21	9	8.97
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD22	9	8.97
(1,867)	1:A:20:PHE:HD1	1:B:117:LEU:HD23	9	8.97
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD11	9	8.97
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD12	9	8.97
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD13	9	8.97
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD21	9	8.97
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD22	9	8.97
(1,867)	1:A:20:PHE:HD2	1:B:117:LEU:HD23	9	8.97
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD11	9	8.97
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD12	9	8.97
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD13	9	8.97
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD21	9	8.97
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD22	9	8.97
(1,867)	1:A:20:PHE:HE1	1:B:117:LEU:HD23	9	8.97
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD11	9	8.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD12	9	8.97
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD13	9	8.97
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD21	9	8.97
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD22	9	8.97
(1,867)	1:A:20:PHE:HE2	1:B:117:LEU:HD23	9	8.97
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	4	8.91
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	4	8.91
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	4	8.91
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	4	8.91
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	4	8.91
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	4	8.91
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	4	8.91
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	4	8.91
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	4	8.91
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	4	8.91
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	4	8.91
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	4	8.91
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	4	8.88
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	4	8.88
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	4	8.88
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	4	8.88
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	4	8.88
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	4	8.88
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	4	8.88
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	4	8.88
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	4	8.88
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	4	8.88
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	4	8.88
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	4	8.88
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	2	8.87
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	2	8.87
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	2	8.87
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	2	8.87
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	2	8.87
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	2	8.87
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	2	8.87
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	2	8.87
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	2	8.87
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	2	8.87
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	2	8.87
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	2	8.87
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	2	8.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	2	8.83
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	2	8.83
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	2	8.83
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	2	8.83
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	2	8.83
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	2	8.83
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	2	8.83
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	2	8.83
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	2	8.83
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	2	8.83
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	2	8.83
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	8	8.83
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	8	8.83
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	8	8.83
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	8	8.83
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	8	8.83
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	8	8.83
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	8	8.83
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	8	8.83
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	8	8.83
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	8	8.83
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	8	8.83
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	8	8.83
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	1	8.82
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	1	8.82
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	1	8.82
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	1	8.82
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	1	8.82
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	1	8.82
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	1	8.82
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	1	8.82
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	1	8.82
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	1	8.82
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	1	8.82
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	1	8.82
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	3	8.82
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	3	8.82
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	3	8.82
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	3	8.82
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	3	8.82
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	3	8.82
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	3	8.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	3	8.82
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	3	8.82
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	3	8.82
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	3	8.82
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	3	8.82
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	3	8.81
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	3	8.81
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	3	8.81
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	3	8.81
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	3	8.81
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	3	8.81
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	3	8.81
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	3	8.81
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	3	8.81
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	3	8.81
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	3	8.81
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	3	8.81
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	1	8.81
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	1	8.81
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	1	8.81
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	1	8.81
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	1	8.81
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	1	8.81
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	1	8.81
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	1	8.81
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	1	8.81
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	1	8.81
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	1	8.81
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	1	8.81
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	8	8.8
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	8	8.8
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	8	8.8
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	8	8.8
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	8	8.8
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	8	8.8
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	8	8.8
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	8	8.8
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	8	8.8
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	8	8.8
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	8	8.8
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	8	8.8
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	5	8.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	5	8.77
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	5	8.77
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	5	8.77
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	5	8.77
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	5	8.77
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	5	8.77
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	5	8.77
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	5	8.77
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	5	8.77
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	5	8.77
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	5	8.77
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	9	8.75
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	9	8.75
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	9	8.75
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	9	8.75
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	9	8.75
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	9	8.75
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	9	8.75
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	9	8.75
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	9	8.75
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	9	8.75
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	9	8.75
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	9	8.75
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	5	8.73
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	5	8.73
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	5	8.73
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	5	8.73
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	5	8.73
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	5	8.73
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	5	8.73
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	5	8.73
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	5	8.73
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	5	8.73
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	5	8.73
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	5	8.73
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	10	8.72
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	10	8.72
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	10	8.72
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	10	8.72
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	10	8.72
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	10	8.72
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	10	8.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	10	8.72
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	10	8.72
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	10	8.72
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	10	8.72
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	10	8.72
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	6	8.67
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	6	8.67
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	6	8.67
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	6	8.67
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	6	8.67
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	6	8.67
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	6	8.67
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	6	8.67
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	6	8.67
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	6	8.67
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	6	8.67
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	6	8.67
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	7	8.64
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	7	8.64
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	7	8.64
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	7	8.64
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	7	8.64
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	7	8.64
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	7	8.64
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	7	8.64
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	7	8.64
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	7	8.64
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	7	8.64
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	7	8.64
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	10	8.58
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	10	8.58
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	10	8.58
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	10	8.58
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	10	8.58
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	10	8.58
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	10	8.58
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	10	8.58
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	10	8.58
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	10	8.58
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	10	8.58
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	10	8.58
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	6	8.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	6	8.55
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	6	8.55
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	6	8.55
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	6	8.55
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	6	8.55
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	6	8.55
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	6	8.55
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	6	8.55
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	6	8.55
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	6	8.55
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	6	8.55
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD11	9	8.53
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD12	9	8.53
(1,858)	1:A:20:PHE:HD1	1:B:121:ILE:HD13	9	8.53
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD11	9	8.53
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD12	9	8.53
(1,858)	1:A:20:PHE:HD2	1:B:121:ILE:HD13	9	8.53
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD11	9	8.53
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD12	9	8.53
(1,858)	1:A:20:PHE:HE1	1:B:121:ILE:HD13	9	8.53
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD11	9	8.53
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD12	9	8.53
(1,858)	1:A:20:PHE:HE2	1:B:121:ILE:HD13	9	8.53
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD1	7	8.43
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HD2	7	8.43
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE1	7	8.43
(1,860)	1:A:21:ILE:HD11	1:B:120:PHE:HE2	7	8.43
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD1	7	8.43
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HD2	7	8.43
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE1	7	8.43
(1,860)	1:A:21:ILE:HD12	1:B:120:PHE:HE2	7	8.43
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD1	7	8.43
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HD2	7	8.43
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE1	7	8.43
(1,860)	1:A:21:ILE:HD13	1:B:120:PHE:HE2	7	8.43
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	7	7.95
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	7	7.95
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	7	7.95
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	7	7.95
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	7	7.95
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	7	7.95
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	7	7.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	7	7.95
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	7	7.95
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	7	7.95
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	7	7.95
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	7	7.95
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	7	7.67
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	7	7.67
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	7	7.67
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	7	7.67
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	7	7.67
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	7	7.67
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	7	7.67
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	7	7.67
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	7	7.67
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	7	7.67
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	7	7.67
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	7	7.67
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	9	7.59
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	9	7.59
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	9	7.59
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	9	7.59
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	9	7.59
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	9	7.59
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	4	7.52
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	4	7.52
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	4	7.52
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	4	7.52
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	4	7.52
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	4	7.52
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	4	7.49
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	4	7.49
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	4	7.49
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	4	7.49
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	4	7.49
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	4	7.49
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	2	7.48
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	2	7.48
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	2	7.48
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	2	7.48
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	2	7.48
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	2	7.48
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	5	7.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	5	7.45
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	5	7.45
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	5	7.45
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	5	7.45
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	5	7.45
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	8	7.45
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	8	7.45
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	8	7.45
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	8	7.45
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	8	7.45
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	8	7.45
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	1	7.43
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	1	7.43
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	1	7.43
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	1	7.43
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	1	7.43
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	1	7.43
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	2	7.43
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	2	7.43
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	2	7.43
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	2	7.43
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	2	7.43
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	2	7.43
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	1	7.43
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	1	7.43
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	1	7.43
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	1	7.43
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	1	7.43
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	1	7.43
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	8	7.42
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	8	7.42
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	8	7.42
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	8	7.42
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	8	7.42
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	8	7.42
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	3	7.41
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	3	7.41
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	3	7.41
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	3	7.41
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	3	7.41
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	3	7.41
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	5	7.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	5	7.41
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	5	7.41
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	5	7.41
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	5	7.41
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	5	7.41
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	3	7.41
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	3	7.41
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	3	7.41
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	3	7.41
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	3	7.41
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	3	7.41
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	9	7.38
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	9	7.38
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	9	7.38
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	9	7.38
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	9	7.38
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	9	7.38
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	10	7.35
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	10	7.35
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	10	7.35
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	10	7.35
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	10	7.35
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	10	7.35
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	6	7.34
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	6	7.34
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	6	7.34
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	6	7.34
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	6	7.34
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	6	7.34
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	10	7.33
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	10	7.33
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	10	7.33
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	10	7.33
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	10	7.33
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	10	7.33
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD11	7	7.29
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD12	7	7.29
(1,870)	1:A:20:PHE:HB2	1:B:121:ILE:HD13	7	7.29
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD11	7	7.29
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD12	7	7.29
(1,870)	1:A:20:PHE:HB3	1:B:121:ILE:HD13	7	7.29
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	6	7.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	6	7.28
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	6	7.28
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	6	7.28
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	6	7.28
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	6	7.28
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB2	7	7.25
(1,872)	1:A:21:ILE:HD11	1:B:120:PHE:HB3	7	7.25
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB2	7	7.25
(1,872)	1:A:21:ILE:HD12	1:B:120:PHE:HB3	7	7.25
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB2	7	7.25
(1,872)	1:A:21:ILE:HD13	1:B:120:PHE:HB3	7	7.25
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	9	7.14
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	9	7.14
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	9	7.14
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	9	7.14
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	9	7.14
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	9	7.14
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	9	7.14
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	9	7.14
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	9	7.14
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	9	7.14
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	9	7.14
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	9	7.14
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	5	7.11
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	5	7.11
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	5	7.11
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	5	7.11
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	5	7.11
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	5	7.11
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	5	7.11
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	5	7.11
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	5	7.11
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	5	7.11
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	5	7.11
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	5	7.11
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	2	7.06
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	2	7.06
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	2	7.06
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	2	7.06
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	2	7.06
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	2	7.06
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	2	7.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	2	7.06
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	2	7.06
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	2	7.06
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	2	7.06
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	2	7.06
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	3	7.05
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	3	7.05
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	3	7.05
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	3	7.05
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	3	7.05
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	3	7.05
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	3	7.05
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	3	7.05
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	3	7.05
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	3	7.05
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	3	7.05
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	3	7.05
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	10	7.05
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	10	7.05
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	10	7.05
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	10	7.05
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	10	7.05
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	10	7.05
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	10	7.05
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	10	7.05
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	10	7.05
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	10	7.05
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	10	7.05
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	10	7.05
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	6	7.04
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	6	7.04
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	6	7.04
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	6	7.04
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	6	7.04
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	6	7.04
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	6	7.04
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	6	7.04
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	6	7.04
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	6	7.04
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	6	7.04
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	6	7.04
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	5	7.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	5	7.04
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	5	7.04
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	5	7.04
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	5	7.04
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	5	7.04
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	5	7.04
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	5	7.04
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	5	7.04
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	5	7.04
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	5	7.04
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	5	7.04
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	2	7.03
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	2	7.03
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	2	7.03
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	2	7.03
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	2	7.03
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	2	7.03
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	2	7.03
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	2	7.03
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	2	7.03
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	2	7.03
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	2	7.03
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	2	7.03
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	3	7.03
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	3	7.03
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	3	7.03
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	3	7.03
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	3	7.03
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	3	7.03
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	3	7.03
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	3	7.03
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	3	7.03
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	3	7.03
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	3	7.03
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	3	7.03
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	8	6.99
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	8	6.99
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	8	6.99
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	8	6.99
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	8	6.99
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	8	6.99
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	8	6.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	8	6.99
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	8	6.99
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	8	6.99
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	8	6.99
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	8	6.99
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	9	6.98
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	9	6.98
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	9	6.98
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	9	6.98
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	9	6.98
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	9	6.98
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	9	6.98
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	9	6.98
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	9	6.98
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	9	6.98
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	9	6.98
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	9	6.98
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	4	6.96
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	4	6.96
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	4	6.96
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	4	6.96
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	4	6.96
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	4	6.96
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	4	6.96
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	4	6.96
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	4	6.96
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	4	6.96
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	4	6.96
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	4	6.96
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	1	6.93
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	1	6.93
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	1	6.93
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	1	6.93
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	1	6.93
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	1	6.93
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	1	6.93
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	1	6.93
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	1	6.93
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	1	6.93
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	1	6.93
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	1	6.93
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	1	6.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	1	6.92
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	1	6.92
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	1	6.92
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	1	6.92
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	1	6.92
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	1	6.92
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	1	6.92
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	1	6.92
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	1	6.92
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	1	6.92
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	1	6.92
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	8	6.91
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	8	6.91
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	8	6.91
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	8	6.91
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	8	6.91
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	8	6.91
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	8	6.91
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	8	6.91
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	8	6.91
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	8	6.91
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	8	6.91
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	8	6.91
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD11	4	6.88
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD12	4	6.88
(1,430)	1:A:20:PHE:HD1	1:B:119:ILE:HD13	4	6.88
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD11	4	6.88
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD12	4	6.88
(1,430)	1:A:20:PHE:HD2	1:B:119:ILE:HD13	4	6.88
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD11	4	6.88
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD12	4	6.88
(1,430)	1:A:20:PHE:HE1	1:B:119:ILE:HD13	4	6.88
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD11	4	6.88
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD12	4	6.88
(1,430)	1:A:20:PHE:HE2	1:B:119:ILE:HD13	4	6.88
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	6	6.87
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	6	6.87
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	6	6.87
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	6	6.87
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	6	6.87
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	6	6.87
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	6	6.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	6	6.87
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	6	6.87
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	6	6.87
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	6	6.87
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	6	6.87
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD1	10	6.82
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HD2	10	6.82
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE1	10	6.82
(1,429)	1:A:19:ILE:HD11	1:B:120:PHE:HE2	10	6.82
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD1	10	6.82
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HD2	10	6.82
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE1	10	6.82
(1,429)	1:A:19:ILE:HD12	1:B:120:PHE:HE2	10	6.82
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD1	10	6.82
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HD2	10	6.82
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE1	10	6.82
(1,429)	1:A:19:ILE:HD13	1:B:120:PHE:HE2	10	6.82
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	6	5.99
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	6	5.99
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	6	5.99
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	6	5.99
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	6	5.99
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	6	5.99
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	6	5.99
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	6	5.99
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	6	5.99
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	6	5.99
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	6	5.99
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	6	5.99
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	9	5.96
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	9	5.96
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	9	5.96
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	9	5.96
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	9	5.96
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	9	5.96
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	9	5.96
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	9	5.96
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	9	5.96
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	9	5.96
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	9	5.96
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	9	5.96
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	6	5.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	6	5.87
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	6	5.87
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	6	5.87
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	6	5.87
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	6	5.87
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	6	5.87
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	6	5.87
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	6	5.87
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	6	5.87
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	6	5.87
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	6	5.87
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	4	5.83
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	4	5.83
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	4	5.83
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	4	5.83
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	4	5.83
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	4	5.83
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	4	5.83
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	4	5.83
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	4	5.83
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	4	5.83
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	4	5.83
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	4	5.83
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	4	5.82
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	4	5.82
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	4	5.82
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	4	5.82
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	4	5.82
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	4	5.82
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	4	5.82
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	4	5.82
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	4	5.82
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	4	5.82
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	4	5.82
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	4	5.82
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	1	5.71
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	1	5.71
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	1	5.71
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	1	5.71
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	1	5.71
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	1	5.71
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	1	5.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	1	5.71
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	1	5.71
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	1	5.71
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	1	5.71
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	1	5.71
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	3	5.71
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	3	5.71
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	3	5.71
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	3	5.71
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	3	5.71
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	3	5.71
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	3	5.71
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	3	5.71
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	3	5.71
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	3	5.71
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	3	5.71
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	3	5.71
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	3	5.71
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	3	5.71
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	3	5.71
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	3	5.71
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	3	5.71
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	3	5.71
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	3	5.71
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	3	5.71
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	3	5.71
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	3	5.71
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	3	5.71
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	3	5.71
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	9	5.71
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	9	5.71
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	9	5.71
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	9	5.71
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	9	5.71
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	9	5.71
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	9	5.71
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	9	5.71
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	9	5.71
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	9	5.71
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	9	5.71
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	9	5.71
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	5	5.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	5	5.7
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	5	5.7
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	5	5.7
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	5	5.7
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	5	5.7
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	5	5.7
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	5	5.7
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	5	5.7
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	5	5.7
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	5	5.7
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	5	5.7
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	8	5.7
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	8	5.7
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	8	5.7
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	8	5.7
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	8	5.7
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	8	5.7
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	8	5.7
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	8	5.7
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	8	5.7
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	8	5.7
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	8	5.7
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	8	5.7
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	1	5.69
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	1	5.69
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	1	5.69
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	1	5.69
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	1	5.69
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	1	5.69
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	1	5.69
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	1	5.69
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	1	5.69
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	1	5.69
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	1	5.69
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	1	5.69
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	5	5.62
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	5	5.62
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	5	5.62
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	5	5.62
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	5	5.62
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	5	5.62
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	5	5.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	5	5.62
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	5	5.62
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	5	5.62
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	5	5.62
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	5	5.62
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	10	5.55
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	10	5.55
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	10	5.55
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	10	5.55
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	10	5.55
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	10	5.55
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	10	5.55
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	10	5.55
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	10	5.55
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	10	5.55
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	10	5.55
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	10	5.55
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	10	5.54
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	10	5.54
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	10	5.54
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	10	5.54
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	10	5.54
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	10	5.54
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	10	5.54
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	10	5.54
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	10	5.54
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	10	5.54
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	10	5.54
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	10	5.54
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	8	5.45
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	8	5.45
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	8	5.45
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	8	5.45
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	8	5.45
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	8	5.45
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	8	5.45
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	8	5.45
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	8	5.45
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	8	5.45
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	8	5.45
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	8	5.45
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	2	5.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	2	5.38
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	2	5.38
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	2	5.38
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	2	5.38
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	2	5.38
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	2	5.38
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	2	5.38
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	2	5.38
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	2	5.38
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	2	5.38
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	2	5.38
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	2	5.33
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	2	5.33
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	2	5.33
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	2	5.33
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	2	5.33
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	2	5.33
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	2	5.33
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	2	5.33
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	2	5.33
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	2	5.33
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	2	5.33
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	2	5.33
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	9	5.15
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	9	5.15
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	9	5.15
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	7	5.09
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	7	5.09
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	7	5.09
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	7	5.09
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	7	5.09
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	7	5.09
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	7	5.09
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	7	5.09
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	7	5.09
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	7	5.09
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	7	5.09
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	7	5.09
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	2	5.01
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	2	5.01
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	2	5.01
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	9	5.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	9	5.0
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	9	5.0
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	7	5.0
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	7	5.0
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	7	5.0
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	7	5.0
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	7	5.0
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	7	5.0
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	7	5.0
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	7	5.0
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	7	5.0
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	7	5.0
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	7	5.0
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	7	5.0
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	2	4.97
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	2	4.97
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	2	4.97
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	8	4.94
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	8	4.94
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	8	4.94
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	1	4.93
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	1	4.93
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	1	4.93
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	3	4.93
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	3	4.93
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	3	4.93
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	4	4.93
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	4	4.93
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	4	4.93
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	1	4.93
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	1	4.93
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	1	4.93
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	8	4.92
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	8	4.92
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	8	4.92
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	3	4.92
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	3	4.92
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	3	4.92
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	4	4.9
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	4	4.9
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	4	4.9
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	5	4.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	5	4.81
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	5	4.81
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	5	4.8
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	5	4.8
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	5	4.8
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	7	4.8
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	7	4.8
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	7	4.8
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	6	4.79
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	6	4.79
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	6	4.79
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	6	4.78
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	6	4.78
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	6	4.78
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	7	4.78
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	7	4.78
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	7	4.78
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	10	4.76
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	10	4.76
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	10	4.76
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	10	4.75
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	10	4.75
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	10	4.75
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG21	7	4.67
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG22	7	4.67
(1,864)	1:A:20:PHE:HA	1:B:121:ILE:HG23	7	4.67
(1,866)	1:A:21:ILE:HG21	1:B:120:PHE:HA	7	4.58
(1,866)	1:A:21:ILE:HG22	1:B:120:PHE:HA	7	4.58
(1,866)	1:A:21:ILE:HG23	1:B:120:PHE:HA	7	4.58
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD1	7	4.54
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HD2	7	4.54
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE1	7	4.54
(1,873)	1:A:12:ILE:HG21	1:B:110:PHE:HE2	7	4.54
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD1	7	4.54
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HD2	7	4.54
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE1	7	4.54
(1,873)	1:A:12:ILE:HG22	1:B:110:PHE:HE2	7	4.54
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD1	7	4.54
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HD2	7	4.54
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE1	7	4.54
(1,873)	1:A:12:ILE:HG23	1:B:110:PHE:HE2	7	4.54
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	2	4.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	2	4.49
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	2	4.49
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	2	4.49
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	2	4.49
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	2	4.49
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	2	4.49
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	2	4.49
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	2	4.49
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	2	4.49
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	2	4.49
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	2	4.49
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	2	4.48
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	2	4.48
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	2	4.48
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	2	4.48
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	2	4.48
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	2	4.48
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	2	4.48
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	2	4.48
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	2	4.48
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	2	4.48
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	2	4.48
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	2	4.48
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG21	7	4.46
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG22	7	4.46
(1,875)	1:A:10:PHE:HD1	1:B:112:ILE:HG23	7	4.46
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG21	7	4.46
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG22	7	4.46
(1,875)	1:A:10:PHE:HD2	1:B:112:ILE:HG23	7	4.46
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG21	7	4.46
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG22	7	4.46
(1,875)	1:A:10:PHE:HE1	1:B:112:ILE:HG23	7	4.46
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG21	7	4.46
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG22	7	4.46
(1,875)	1:A:10:PHE:HE2	1:B:112:ILE:HG23	7	4.46
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	8	4.43
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	8	4.43
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	8	4.43
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	8	4.43
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	8	4.43
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	8	4.43
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	8	4.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	8	4.43
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	8	4.43
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	8	4.43
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	8	4.43
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	8	4.43
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	8	4.43
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	8	4.43
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	8	4.43
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	8	4.43
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	8	4.43
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	8	4.43
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	8	4.43
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	8	4.43
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	8	4.43
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	8	4.43
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	8	4.43
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	8	4.43
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	1	4.42
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	1	4.42
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	1	4.42
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	1	4.42
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	1	4.42
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	1	4.42
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	1	4.42
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	1	4.42
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	1	4.42
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	1	4.42
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	1	4.42
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	1	4.42
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	1	4.42
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	1	4.42
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	1	4.42
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	1	4.42
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	1	4.42
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	1	4.42
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	1	4.42
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	1	4.42
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	1	4.42
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	1	4.42
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	1	4.42
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	1	4.42
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	3	4.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	3	4.42
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	3	4.42
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	3	4.42
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	3	4.42
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	3	4.42
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	3	4.42
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	3	4.42
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	3	4.42
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	3	4.42
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	3	4.42
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	3	4.42
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	1	4.41
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	1	4.41
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	1	4.41
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	1	4.41
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	1	4.41
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	1	4.41
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	1	4.41
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	1	4.41
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	1	4.41
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	1	4.41
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	1	4.41
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	1	4.41
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	1	4.41
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	1	4.41
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	1	4.41
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	1	4.41
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	1	4.41
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	1	4.41
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	1	4.41
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	1	4.41
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	1	4.41
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	1	4.41
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	1	4.41
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	1	4.41
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	3	4.41
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	3	4.41
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	3	4.41
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	3	4.41
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	3	4.41
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	3	4.41
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	3	4.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	3	4.41
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	3	4.41
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	3	4.41
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	3	4.41
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	3	4.41
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	3	4.4
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	3	4.4
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	3	4.4
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	3	4.4
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	3	4.4
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	3	4.4
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	3	4.4
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	3	4.4
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	3	4.4
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	3	4.4
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	3	4.4
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	3	4.4
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	3	4.4
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	3	4.4
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	3	4.4
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	3	4.4
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	3	4.4
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	3	4.4
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	3	4.4
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	3	4.4
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	3	4.4
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	3	4.4
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	3	4.4
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	3	4.4
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	8	4.4
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	8	4.4
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	8	4.4
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	8	4.4
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	8	4.4
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	8	4.4
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	8	4.4
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	8	4.4
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	8	4.4
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	8	4.4
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	8	4.4
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	8	4.4
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	8	4.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	8	4.4
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	8	4.4
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	8	4.4
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	8	4.4
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	8	4.4
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	8	4.4
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	8	4.4
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	8	4.4
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	8	4.4
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	8	4.4
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	8	4.4
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	10	4.4
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	10	4.4
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	10	4.4
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	10	4.4
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	10	4.4
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	10	4.4
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	10	4.4
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	10	4.4
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	10	4.4
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	10	4.4
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	10	4.4
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	10	4.4
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	10	4.4
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	10	4.4
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	10	4.4
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	10	4.4
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	10	4.4
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	10	4.4
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	10	4.4
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	10	4.4
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	10	4.4
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	10	4.4
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	10	4.4
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	10	4.4
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	5	4.39
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	5	4.39
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	5	4.39
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	5	4.39
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	5	4.39
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	5	4.39
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	5	4.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	5	4.39
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	5	4.39
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	5	4.39
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	5	4.39
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	5	4.39
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	5	4.39
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	5	4.39
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	5	4.39
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	5	4.39
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	5	4.39
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	5	4.39
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	5	4.39
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	5	4.39
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	5	4.39
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	5	4.39
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	5	4.39
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	5	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	3	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	3	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	3	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	3	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	3	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	3	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	3	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	3	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	3	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	3	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	3	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	3	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	3	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	3	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	3	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	3	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	3	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	3	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	3	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	3	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	3	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	3	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	3	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	3	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	4	4.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	4	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	4	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	4	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	4	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	4	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	4	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	4	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	4	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	4	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	4	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	4	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	4	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	4	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	4	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	4	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	4	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	4	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	4	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	4	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	4	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	4	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	4	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	4	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	6	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	6	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	6	4.39
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	6	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	6	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	6	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	6	4.39
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	6	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	6	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	6	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	6	4.39
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	6	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	6	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	6	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	6	4.39
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	6	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	6	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	6	4.39
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	6	4.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	6	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	6	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	6	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	6	4.39
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	6	4.39
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	2	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	2	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	2	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	2	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	2	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	2	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	2	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	2	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	2	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	2	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	2	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	2	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	2	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	2	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	2	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	2	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	2	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	2	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	2	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	2	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	2	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	2	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	2	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	2	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	10	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	10	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	10	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	10	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	10	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	10	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	10	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	10	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	10	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	10	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	10	4.37
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	10	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	10	4.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	10	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	10	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	10	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	10	4.37
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	10	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	10	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	10	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	10	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	10	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	10	4.37
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	10	4.37
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	2	4.37
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	2	4.37
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	2	4.37
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	2	4.37
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	2	4.37
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	2	4.37
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	2	4.37
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	2	4.37
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	2	4.37
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	2	4.37
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	2	4.37
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	2	4.37
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	2	4.37
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	2	4.37
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	2	4.37
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	2	4.37
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	2	4.37
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	2	4.37
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	2	4.37
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	2	4.37
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	2	4.37
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	2	4.37
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	2	4.37
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	2	4.37
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	5	4.37
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	5	4.37
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	5	4.37
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	5	4.37
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	5	4.37
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	5	4.37
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	5	4.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	5	4.37
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	5	4.37
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	5	4.37
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	5	4.37
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	5	4.37
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	5	4.37
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	5	4.37
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	5	4.37
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	5	4.37
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	5	4.37
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	5	4.37
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	5	4.37
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	5	4.37
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	5	4.37
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	5	4.37
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	5	4.37
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	5	4.37
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	4	4.36
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	4	4.36
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	4	4.36
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	4	4.36
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	4	4.36
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	4	4.36
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	4	4.36
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	4	4.36
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	4	4.36
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	4	4.36
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	4	4.36
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	4	4.36
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	4	4.36
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	4	4.36
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	4	4.36
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	4	4.36
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	4	4.36
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	4	4.36
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	4	4.36
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	4	4.36
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	4	4.36
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	4	4.36
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	4	4.36
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	4	4.36
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	6	4.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	6	4.36
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	6	4.36
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	6	4.36
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	6	4.36
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	6	4.36
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	6	4.36
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	6	4.36
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	6	4.36
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	6	4.36
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	6	4.36
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	6	4.36
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	5	4.35
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	5	4.35
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	5	4.35
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	5	4.35
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	5	4.35
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	5	4.35
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	5	4.35
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	5	4.35
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	5	4.35
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	5	4.35
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	5	4.35
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	5	4.35
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	5	4.35
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	5	4.35
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	5	4.35
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	5	4.35
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	5	4.35
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	5	4.35
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	5	4.35
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	5	4.35
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	5	4.35
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	5	4.35
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	5	4.35
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	5	4.35
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	9	4.33
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	9	4.33
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	9	4.33
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	9	4.33
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	9	4.33
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	9	4.33
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	9	4.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	9	4.33
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	9	4.33
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	9	4.33
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	9	4.33
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	9	4.33
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	9	4.33
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	9	4.33
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	9	4.33
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	9	4.33
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	9	4.33
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	9	4.33
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	9	4.33
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	9	4.33
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	9	4.33
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	9	4.33
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	9	4.33
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	9	4.33
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	6	4.31
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	6	4.31
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	6	4.31
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	6	4.31
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	6	4.31
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	6	4.31
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	6	4.31
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	6	4.31
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	6	4.31
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	6	4.31
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	6	4.31
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	6	4.31
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	6	4.31
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	6	4.31
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	6	4.31
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	6	4.31
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	6	4.31
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	6	4.31
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	6	4.31
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	6	4.31
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	6	4.31
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	6	4.31
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	6	4.31
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	6	4.31
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	9	4.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	9	4.3
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	9	4.3
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	9	4.3
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	9	4.3
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	9	4.3
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	9	4.3
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	9	4.3
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	9	4.3
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	9	4.3
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	9	4.3
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	9	4.3
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	9	4.3
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	9	4.3
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	9	4.3
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	9	4.3
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	9	4.3
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	9	4.3
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	9	4.3
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	9	4.3
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	9	4.3
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	9	4.3
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	9	4.3
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	9	4.3
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	6	4.3
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	6	4.3
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	6	4.3
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	6	4.3
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	6	4.3
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	6	4.3
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	6	4.3
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	6	4.3
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	6	4.3
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	6	4.3
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	6	4.3
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	6	4.3
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	8	4.29
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	8	4.29
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	8	4.29
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	8	4.29
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	8	4.29
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	8	4.29
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	8	4.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	8	4.29
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	8	4.29
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	8	4.29
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	8	4.29
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	8	4.29
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	9	4.28
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	9	4.28
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	9	4.28
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	9	4.28
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	9	4.28
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	9	4.28
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	9	4.28
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	9	4.28
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	9	4.28
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	9	4.28
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	9	4.28
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	9	4.28
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	1	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	1	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	1	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	1	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	1	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	1	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	1	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	1	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	1	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	1	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	1	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	1	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	4	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	4	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	4	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	4	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	4	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	4	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	4	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	4	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	4	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	4	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	4	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	4	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	8	4.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	8	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	8	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	8	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	8	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	8	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	8	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	8	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	8	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	8	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	8	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	8	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD1	10	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HD2	10	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE1	10	4.27
(1,425)	1:A:23:ILE:HD11	1:B:120:PHE:HE2	10	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD1	10	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HD2	10	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE1	10	4.27
(1,425)	1:A:23:ILE:HD12	1:B:120:PHE:HE2	10	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD1	10	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HD2	10	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE1	10	4.27
(1,425)	1:A:23:ILE:HD13	1:B:120:PHE:HE2	10	4.27
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	1	4.26
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	1	4.26
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	1	4.26
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	1	4.26
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	1	4.26
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	1	4.26
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	1	4.26
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	1	4.26
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	1	4.26
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	1	4.26
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	1	4.26
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	1	4.26
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD11	7	4.25
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD12	7	4.25
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD13	7	4.25
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD21	7	4.25
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD22	7	4.25
(1,432)	1:A:20:PHE:HD1	1:B:118:LEU:HD23	7	4.25
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD11	7	4.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD12	7	4.25
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD13	7	4.25
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD21	7	4.25
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD22	7	4.25
(1,432)	1:A:20:PHE:HD2	1:B:118:LEU:HD23	7	4.25
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD11	7	4.25
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD12	7	4.25
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD13	7	4.25
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD21	7	4.25
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD22	7	4.25
(1,432)	1:A:20:PHE:HE1	1:B:118:LEU:HD23	7	4.25
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD11	7	4.25
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD12	7	4.25
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD13	7	4.25
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD21	7	4.25
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD22	7	4.25
(1,432)	1:A:20:PHE:HE2	1:B:118:LEU:HD23	7	4.25
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	4	4.24
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	4	4.24
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	4	4.24
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	4	4.24
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	4	4.24
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	4	4.24
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	4	4.24
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	4	4.24
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	4	4.24
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	4	4.24
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	4	4.24
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	4	4.24
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	9	4.2
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	9	4.2
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	9	4.2
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	9	4.2
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	9	4.2
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	9	4.2
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	9	4.2
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	9	4.2
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	9	4.2
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	9	4.2
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	9	4.2
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	9	4.2
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD11	10	4.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD12	10	4.2
(1,426)	1:A:20:PHE:HD1	1:B:123:ILE:HD13	10	4.2
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD11	10	4.2
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD12	10	4.2
(1,426)	1:A:20:PHE:HD2	1:B:123:ILE:HD13	10	4.2
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD11	10	4.2
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD12	10	4.2
(1,426)	1:A:20:PHE:HE1	1:B:123:ILE:HD13	10	4.2
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD11	10	4.2
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD12	10	4.2
(1,426)	1:A:20:PHE:HE2	1:B:123:ILE:HD13	10	4.2
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD1	7	4.13
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HD2	7	4.13
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE1	7	4.13
(1,431)	1:A:18:LEU:HD11	1:B:120:PHE:HE2	7	4.13
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD1	7	4.13
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HD2	7	4.13
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE1	7	4.13
(1,431)	1:A:18:LEU:HD12	1:B:120:PHE:HE2	7	4.13
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD1	7	4.13
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HD2	7	4.13
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE1	7	4.13
(1,431)	1:A:18:LEU:HD13	1:B:120:PHE:HE2	7	4.13
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD1	7	4.13
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HD2	7	4.13
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE1	7	4.13
(1,431)	1:A:18:LEU:HD21	1:B:120:PHE:HE2	7	4.13
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD1	7	4.13
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HD2	7	4.13
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE1	7	4.13
(1,431)	1:A:18:LEU:HD22	1:B:120:PHE:HE2	7	4.13
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD1	7	4.13
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HD2	7	4.13
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE1	7	4.13
(1,431)	1:A:18:LEU:HD23	1:B:120:PHE:HE2	7	4.13
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	6	4.05
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	6	4.05
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	6	4.05
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	6	4.05
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	6	4.05
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	6	4.05
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	6	4.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	6	4.05
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	6	4.05
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	6	4.05
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	6	4.05
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	6	4.05
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	7	3.98
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	7	3.98
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	7	3.98
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	7	3.98
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	7	3.98
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	7	3.98
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	7	3.98
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	7	3.98
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	7	3.98
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	7	3.98
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	7	3.98
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	7	3.98
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	3	3.97
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	3	3.97
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	3	3.97
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	3	3.97
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	3	3.97
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	3	3.97
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	3	3.97
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	3	3.97
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	3	3.97
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	3	3.97
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	3	3.97
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	3	3.97
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	9	3.97
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	9	3.97
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	9	3.97
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	2	3.92
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	2	3.92
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	2	3.92
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	9	3.92
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	9	3.92
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	9	3.92
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	2	3.92
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	2	3.92
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	2	3.92
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	8	3.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	8	3.91
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	8	3.91
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	8	3.91
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	8	3.91
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	8	3.91
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	8	3.91
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	8	3.91
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	8	3.91
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	8	3.91
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	8	3.91
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	8	3.91
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	5	3.9
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	5	3.9
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	5	3.9
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	5	3.9
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	5	3.9
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	5	3.9
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	5	3.9
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	5	3.9
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	5	3.9
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	5	3.9
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	5	3.9
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	5	3.9
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	1	3.89
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	1	3.89
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	1	3.89
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	1	3.89
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	1	3.89
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	1	3.89
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	1	3.89
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	1	3.89
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	1	3.89
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	1	3.89
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	1	3.89
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	1	3.89
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	4	3.89
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	4	3.89
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	4	3.89
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	4	3.89
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	4	3.89
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	4	3.89
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	4	3.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	4	3.89
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	4	3.89
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	4	3.89
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	4	3.89
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	4	3.89
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	5	3.84
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	5	3.84
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	5	3.84
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	5	3.84
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	5	3.84
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	5	3.84
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	2	3.83
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	2	3.83
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	2	3.83
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	2	3.83
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	2	3.83
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	2	3.83
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	2	3.83
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	2	3.83
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	2	3.83
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	2	3.83
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	2	3.83
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	2	3.83
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	3	3.83
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	3	3.83
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	3	3.83
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	10	3.82
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	10	3.82
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	10	3.82
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	10	3.82
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	10	3.82
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	10	3.82
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	10	3.82
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	10	3.82
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	10	3.82
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	10	3.82
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	10	3.82
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	10	3.82
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	3	3.82
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	3	3.82
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	3	3.82
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	8	3.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	8	3.68
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	8	3.68
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	6	3.66
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	6	3.66
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	6	3.66
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	1	3.66
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	1	3.66
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	1	3.66
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	4	3.66
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	4	3.66
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	4	3.66
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	6	3.66
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	6	3.66
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	6	3.66
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	8	3.66
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	8	3.66
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	8	3.66
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	1	3.65
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	1	3.65
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	1	3.65
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	4	3.63
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	4	3.63
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	4	3.63
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD1	9	3.57
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HD2	9	3.57
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE1	9	3.57
(1,874)	1:B:112:ILE:HG21	1:B:110:PHE:HE2	9	3.57
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD1	9	3.57
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HD2	9	3.57
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE1	9	3.57
(1,874)	1:B:112:ILE:HG22	1:B:110:PHE:HE2	9	3.57
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD1	9	3.57
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HD2	9	3.57
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE1	9	3.57
(1,874)	1:B:112:ILE:HG23	1:B:110:PHE:HE2	9	3.57
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD11	10	3.57
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD12	10	3.57
(1,428)	1:A:20:PHE:HA	1:B:123:ILE:HD13	10	3.57
(1,427)	1:A:23:ILE:HD11	1:B:120:PHE:HA	10	3.56
(1,427)	1:A:23:ILE:HD12	1:B:120:PHE:HA	10	3.56
(1,427)	1:A:23:ILE:HD13	1:B:120:PHE:HA	10	3.56
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	9	3.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	9	3.19
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	9	3.19
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	9	3.19
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	9	3.19
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	9	3.19
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	9	3.19
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	9	3.19
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	9	3.19
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	9	3.19
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	9	3.19
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	9	3.19
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	7	3.06
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	7	3.06
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	7	3.06
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	7	3.06
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	7	3.06
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	7	3.06
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	7	3.06
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	7	3.06
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	7	3.06
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	7	3.06
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	7	3.06
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	7	3.06
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	8	2.66
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	8	2.66
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	8	2.66
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	8	2.66
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	8	2.66
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	8	2.66
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	8	2.65
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	8	2.65
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	8	2.65
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	8	2.65
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	8	2.65
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	8	2.65
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	8	2.65
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	8	2.65
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	8	2.65
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	8	2.65
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	8	2.65
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	8	2.65
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	9	2.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	9	2.64
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	9	2.64
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	9	2.64
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	9	2.64
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	9	2.64
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	2	2.64
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	2	2.64
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	2	2.64
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	2	2.64
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	2	2.64
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	2	2.64
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	9	2.64
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	9	2.64
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	9	2.64
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	9	2.64
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	9	2.64
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	9	2.64
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	9	2.64
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	9	2.64
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	9	2.64
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	9	2.64
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	9	2.64
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	9	2.64
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	2	2.63
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	2	2.63
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	2	2.63
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	2	2.63
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	2	2.63
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	2	2.63
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	4	2.63
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	4	2.63
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	4	2.63
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	4	2.63
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	4	2.63
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	4	2.63
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	2	2.63
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	2	2.63
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	2	2.63
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	2	2.63
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	2	2.63
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	2	2.63
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	4	2.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	4	2.63
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	4	2.63
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	4	2.63
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	4	2.63
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	4	2.63
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	3	2.62
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	3	2.62
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	3	2.62
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	3	2.62
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	3	2.62
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	3	2.62
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	6	2.62
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	6	2.62
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	6	2.62
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	6	2.62
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	6	2.62
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	6	2.62
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	3	2.62
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	3	2.62
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	3	2.62
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	3	2.62
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	3	2.62
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	3	2.62
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	3	2.62
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	3	2.62
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	3	2.62
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	3	2.62
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	3	2.62
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	3	2.62
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	6	2.62
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	6	2.62
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	6	2.62
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	6	2.62
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	6	2.62
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	6	2.62
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	1	2.61
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	1	2.61
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	1	2.61
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	1	2.61
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	1	2.61
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	1	2.61
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	5	2.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	5	2.61
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	5	2.61
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	5	2.61
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	5	2.61
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	5	2.61
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	10	2.61
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	10	2.61
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	10	2.61
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	10	2.61
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	10	2.61
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	10	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	1	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	1	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	1	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	1	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	1	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	1	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	4	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	4	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	4	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	4	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	4	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	4	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	5	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	5	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	5	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	5	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	5	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	5	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	6	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	6	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	6	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	6	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	6	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	6	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	7	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	7	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	7	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	7	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	7	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	7	2.61
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	10	2.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,358)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	10	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	10	2.61
(1,358)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	10	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	10	2.61
(1,358)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	10	2.61
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	1	2.61
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	1	2.61
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	1	2.61
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	1	2.61
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	1	2.61
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	1	2.61
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	5	2.61
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	5	2.61
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	5	2.61
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	5	2.61
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	5	2.61
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	5	2.61
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	10	2.61
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	10	2.61
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	10	2.61
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	10	2.61
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	10	2.61
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	10	2.61
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	7	2.6
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	7	2.6
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	7	2.6
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	7	2.6
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	7	2.6
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	7	2.6
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	7	2.6
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	7	2.6
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	7	2.6
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	7	2.6
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	7	2.6
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	7	2.6
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	7	2.59
(1,792)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	7	2.59
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	7	2.59
(1,792)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	7	2.59
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	7	2.59
(1,792)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	7	2.59
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD1	7	2.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,357)	1:A:27:ILE:HG21	1:A:29:PHE:HD2	7	2.59
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD1	7	2.59
(1,357)	1:A:27:ILE:HG22	1:A:29:PHE:HD2	7	2.59
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD1	7	2.59
(1,357)	1:A:27:ILE:HG23	1:A:29:PHE:HD2	7	2.59
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	5	2.36
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	5	2.36
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	5	2.36
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	5	2.36
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	5	2.36
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	5	2.36
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	5	2.36
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	5	2.36
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	5	2.36
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	5	2.36
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	5	2.36
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	5	2.36
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	8	2.35
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	8	2.35
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	8	2.35
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	8	2.35
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	8	2.35
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	8	2.35
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	8	2.35
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	8	2.35
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	8	2.35
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	8	2.35
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	8	2.35
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	8	2.35
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	3	2.32
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	3	2.32
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	3	2.32
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	3	2.32
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	3	2.32
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	3	2.32
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	3	2.32
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	3	2.32
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	3	2.32
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	3	2.32
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	3	2.32
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	3	2.32
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	5	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	5	2.3
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	5	2.3
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	5	2.3
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	5	2.3
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	5	2.3
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	5	2.3
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	5	2.3
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	5	2.3
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	5	2.3
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	5	2.3
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	5	2.3
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	10	2.25
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	10	2.25
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	10	2.25
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	10	2.25
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	10	2.25
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	10	2.25
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	10	2.25
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	10	2.25
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	10	2.25
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	10	2.25
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	10	2.25
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	10	2.25
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	8	2.23
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	8	2.23
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	8	2.23
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	8	2.23
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	8	2.23
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	8	2.23
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	8	2.23
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	8	2.23
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	8	2.23
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	8	2.23
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	8	2.23
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	8	2.23
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	6	2.21
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	6	2.21
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	6	2.21
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	6	2.21
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	6	2.21
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	6	2.21
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	6	2.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	6	2.21
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	6	2.21
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	6	2.21
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	6	2.21
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	6	2.21
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	1	2.21
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	1	2.21
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	1	2.21
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	1	2.21
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	1	2.21
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	1	2.21
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	1	2.21
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	1	2.21
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	1	2.21
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	1	2.21
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	1	2.21
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	1	2.21
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	6	2.2
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	6	2.2
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	6	2.2
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	6	2.2
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	6	2.2
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	6	2.2
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	6	2.2
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	6	2.2
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	6	2.2
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	6	2.2
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	6	2.2
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	6	2.2
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	1	2.18
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	1	2.18
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	1	2.18
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	1	2.18
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	1	2.18
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	1	2.18
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	1	2.18
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	1	2.18
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	1	2.18
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	1	2.18
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	1	2.18
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	1	2.18
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	2	2.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	2	2.16
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	2	2.16
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	2	2.16
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	2	2.16
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	2	2.16
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	2	2.16
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	2	2.16
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	2	2.16
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	2	2.16
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	2	2.16
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	2	2.16
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	7	2.15
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	7	2.15
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	7	2.15
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	7	2.15
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	7	2.15
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	7	2.15
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	7	2.15
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	7	2.15
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	7	2.15
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	7	2.15
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	7	2.15
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	7	2.15
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	7	2.15
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	7	2.15
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	7	2.15
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	7	2.15
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	7	2.15
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	7	2.15
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	7	2.15
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	7	2.15
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	7	2.15
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	7	2.15
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	7	2.15
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	7	2.15
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	3	2.13
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	3	2.13
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	3	2.13
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	3	2.13
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	3	2.13
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	3	2.13
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	3	2.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	3	2.13
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	3	2.13
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	3	2.13
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	3	2.13
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	3	2.13
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	10	2.09
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	10	2.09
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	10	2.09
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	10	2.09
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	10	2.09
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	10	2.09
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	10	2.09
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	10	2.09
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	10	2.09
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	10	2.09
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	10	2.09
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	10	2.09
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	9	2.03
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	9	2.03
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	9	2.03
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	9	2.03
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	9	2.03
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	9	2.03
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	9	2.03
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	9	2.03
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	9	2.03
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	9	2.03
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	9	2.03
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	9	2.03
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	9	2.03
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	9	2.03
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	9	2.03
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	9	2.03
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	9	2.03
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	9	2.03
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	9	2.03
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	9	2.03
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	9	2.03
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	9	2.03
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	9	2.03
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	9	2.03
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD11	4	2.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD12	4	2.02
(1,859)	1:B:120:PHE:HD1	1:B:121:ILE:HD13	4	2.02
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD11	4	2.02
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD12	4	2.02
(1,859)	1:B:120:PHE:HD2	1:B:121:ILE:HD13	4	2.02
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD11	4	2.02
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD12	4	2.02
(1,859)	1:B:120:PHE:HE1	1:B:121:ILE:HD13	4	2.02
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD11	4	2.02
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD12	4	2.02
(1,859)	1:B:120:PHE:HE2	1:B:121:ILE:HD13	4	2.02
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	4	1.97
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	4	1.97
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	4	1.97
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	4	1.97
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	4	1.97
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	4	1.97
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	4	1.97
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	4	1.97
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	4	1.97
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	4	1.97
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	4	1.97
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	4	1.97
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	8	1.94
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	8	1.94
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	8	1.94
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	8	1.94
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	8	1.94
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	8	1.94
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	8	1.94
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	8	1.94
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	8	1.94
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	8	1.94
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	8	1.94
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	8	1.94
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	2	1.92
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	2	1.92
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	2	1.92
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	2	1.92
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	2	1.92
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	2	1.92
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	2	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	2	1.92
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	2	1.92
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	2	1.92
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	2	1.92
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	2	1.92
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	9	1.92
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	9	1.92
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	9	1.92
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	9	1.92
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	9	1.92
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	9	1.92
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	9	1.92
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	9	1.92
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	9	1.92
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	9	1.92
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	9	1.92
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	9	1.92
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	3	1.91
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	3	1.91
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	3	1.91
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	3	1.91
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	3	1.91
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	3	1.91
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	3	1.91
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	3	1.91
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	3	1.91
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	3	1.91
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	3	1.91
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	3	1.91
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	1	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	1	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	1	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	1	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	1	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	1	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	1	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	1	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	1	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	1	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	1	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	1	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	4	1.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	4	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	4	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	4	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	4	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	4	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	4	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	4	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	4	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	4	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	4	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	4	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	5	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	5	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	5	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	5	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	5	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	5	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	5	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	5	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	5	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	5	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	5	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	5	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	6	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	6	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	6	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	6	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	6	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	6	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	6	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	6	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	6	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	6	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	6	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	6	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	7	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	7	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	7	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	7	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	7	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	7	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	7	1.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	7	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	7	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	7	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	7	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	7	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	10	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	10	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	10	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	10	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	10	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	10	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD1	10	1.9
(1,793)	1:B:127:ILE:HG21	1:B:129:PHE:HD2	10	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD1	10	1.9
(1,793)	1:B:127:ILE:HG22	1:B:129:PHE:HD2	10	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD1	10	1.9
(1,793)	1:B:127:ILE:HG23	1:B:129:PHE:HD2	10	1.9
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	9	1.76
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	9	1.76
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	9	1.76
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	9	1.76
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	9	1.76
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	9	1.76
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	9	1.76
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	9	1.76
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	9	1.76
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	9	1.76
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	9	1.76
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	9	1.76
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD1	2	1.73
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HD2	2	1.73
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE1	2	1.73
(1,862)	1:B:116:ILE:HD11	1:B:109:PHE:HE2	2	1.73
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD1	2	1.73
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HD2	2	1.73
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE1	2	1.73
(1,862)	1:B:116:ILE:HD12	1:B:109:PHE:HE2	2	1.73
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD1	2	1.73
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HD2	2	1.73
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE1	2	1.73
(1,862)	1:B:116:ILE:HD13	1:B:109:PHE:HE2	2	1.73
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	8	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	8	1.25
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	8	1.25
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	8	1.24
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	8	1.24
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	8	1.24
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	2	1.24
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	2	1.24
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	2	1.24
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	8	1.24
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	8	1.24
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	8	1.24
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	6	1.23
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	6	1.23
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	6	1.23
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	6	1.23
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	6	1.23
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	6	1.23
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	6	1.23
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	6	1.23
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	6	1.23
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	6	1.23
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	6	1.23
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	6	1.23
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	6	1.23
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	6	1.23
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	6	1.23
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	6	1.23
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	6	1.23
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	6	1.23
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	6	1.23
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	6	1.23
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	6	1.23
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	6	1.23
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	6	1.23
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	6	1.23
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	2	1.22
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	2	1.22
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	2	1.22
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	9	1.22
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	9	1.22
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	9	1.22
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	2	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	2	1.22
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	2	1.22
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	9	1.22
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	9	1.22
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	9	1.22
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	9	1.21
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	9	1.21
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	9	1.21
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	9	1.2
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	9	1.2
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	9	1.2
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	1	1.19
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	1	1.19
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	1	1.19
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	1	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	1	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	1	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	2	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	2	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	2	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	3	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	3	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	3	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	6	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	6	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	6	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	8	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	8	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	8	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	10	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	10	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	10	1.17
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	1	1.17
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	1	1.17
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	1	1.17
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	1	1.17
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	1	1.17
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	1	1.17
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	4	1.16
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	4	1.16
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	4	1.16
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	5	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	5	1.16
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	5	1.16
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG21	7	1.15
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG22	7	1.15
(1,865)	1:B:120:PHE:HA	1:B:121:ILE:HG23	7	1.15
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	3	1.14
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	3	1.14
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	3	1.14
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	5	1.13
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	5	1.13
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	5	1.13
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	5	1.13
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	5	1.13
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	5	1.13
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	5	1.13
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	5	1.13
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	5	1.13
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	5	1.13
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	5	1.13
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	5	1.13
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	5	1.13
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	5	1.13
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	5	1.13
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	5	1.13
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	5	1.13
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	5	1.13
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	5	1.13
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	5	1.13
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	5	1.13
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	5	1.13
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	5	1.13
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	5	1.13
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	3	1.13
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	3	1.13
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	3	1.13
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	3	1.13
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	3	1.13
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	3	1.13
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	10	1.1
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	10	1.1
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	10	1.1
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	10	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	10	1.1
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	10	1.1
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	10	1.1
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	10	1.1
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	10	1.1
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	10	1.1
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	10	1.1
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	10	1.1
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	10	1.1
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	10	1.1
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	10	1.1
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	10	1.1
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	10	1.1
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	10	1.1
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	10	1.1
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	10	1.1
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	10	1.1
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	10	1.1
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	10	1.1
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	10	1.1
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	5	1.05
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	5	1.05
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	5	1.05
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	6	1.04
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	6	1.04
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	6	1.04
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	6	1.04
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	6	1.04
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	6	1.04
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	8	1.02
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	8	1.02
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	8	1.02
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	8	1.02
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	8	1.02
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	8	1.02
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	8	1.02
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	8	1.02
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	8	1.02
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	8	1.02
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	8	1.02
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	8	1.02
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	8	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	8	1.02
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	8	1.02
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	8	1.02
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	8	1.02
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	8	1.02
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	8	1.02
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	8	1.02
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	8	1.02
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	8	1.02
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	8	1.02
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	8	1.02
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	5	0.99
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	5	0.99
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	5	0.99
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	5	0.99
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	5	0.99
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	5	0.99
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	3	0.98
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	3	0.98
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	3	0.98
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	3	0.98
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	3	0.98
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	3	0.98
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	1	0.97
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	1	0.97
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	1	0.97
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	1	0.97
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	1	0.97
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	1	0.97
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	1	0.97
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	1	0.97
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	1	0.97
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	1	0.97
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	1	0.97
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	1	0.97
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	1	0.97
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	1	0.97
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	1	0.97
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	1	0.97
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	1	0.97
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	1	0.97
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	1	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	1	0.97
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	1	0.97
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	1	0.97
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	1	0.97
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	1	0.97
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	10	0.96
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	10	0.96
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	10	0.96
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	10	0.96
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	10	0.96
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	10	0.96
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	7	0.95
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	7	0.95
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	7	0.95
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	7	0.95
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	7	0.95
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	7	0.95
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	2	0.94
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	2	0.94
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	2	0.94
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	2	0.94
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	2	0.94
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	2	0.94
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	2	0.94
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	2	0.94
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	2	0.94
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	2	0.94
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	2	0.94
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	2	0.94
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	2	0.94
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	2	0.94
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	2	0.94
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	2	0.94
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	2	0.94
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	2	0.94
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	2	0.94
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	2	0.94
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	2	0.94
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	2	0.94
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	2	0.94
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	2	0.94
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	2	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	2	0.92
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	2	0.92
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	2	0.92
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	2	0.92
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	2	0.92
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	6	0.92
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	6	0.92
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	6	0.92
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	7	0.92
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	7	0.92
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	7	0.92
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	6	0.91
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	6	0.91
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	6	0.91
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	6	0.91
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	6	0.91
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	6	0.91
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	4	0.9
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	4	0.9
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	4	0.9
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	4	0.9
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	4	0.9
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	4	0.9
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	4	0.9
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	4	0.9
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	4	0.9
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	4	0.9
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	4	0.9
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	4	0.9
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	4	0.9
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	4	0.9
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	4	0.9
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	4	0.9
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	4	0.9
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	4	0.9
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	4	0.9
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	4	0.9
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	4	0.9
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	4	0.9
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	4	0.9
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	4	0.9
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	8	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	8	0.89
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	8	0.89
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	8	0.89
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	8	0.89
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	8	0.89
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	5	0.89
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	5	0.89
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	5	0.89
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	5	0.89
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	5	0.89
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	5	0.89
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	1	0.88
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	1	0.88
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	1	0.88
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	1	0.88
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	1	0.88
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	1	0.88
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	7	0.88
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	7	0.88
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	7	0.88
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	7	0.88
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	7	0.88
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	7	0.88
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	2	0.87
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	2	0.87
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	2	0.87
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	2	0.87
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	2	0.87
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	2	0.87
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	9	0.87
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	9	0.87
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	9	0.87
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	9	0.87
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	9	0.87
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	9	0.87
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	1	0.87
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	1	0.87
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	1	0.87
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	1	0.87
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	1	0.87
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	1	0.87
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	8	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	8	0.86
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	8	0.86
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	8	0.86
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	8	0.86
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	8	0.86
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	4	0.85
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	4	0.85
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	4	0.85
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	5	0.84
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	5	0.84
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	5	0.84
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	5	0.84
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	5	0.84
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	5	0.84
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	3	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	3	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	3	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	3	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	3	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	3	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	4	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	4	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	4	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	4	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	4	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	4	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	7	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	7	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	7	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	7	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	7	0.83
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	7	0.83
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD21	10	0.83
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD22	10	0.83
(1,364)	1:B:124:VAL:HA	1:B:125:LEU:HD23	10	0.83
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	6	0.82
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	6	0.82
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	6	0.82
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	6	0.82
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	6	0.82
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	6	0.82
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD11	10	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD12	10	0.81
(1,871)	1:B:120:PHE:HB2	1:B:121:ILE:HD13	10	0.81
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD11	10	0.81
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD12	10	0.81
(1,871)	1:B:120:PHE:HB3	1:B:121:ILE:HD13	10	0.81
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	4	0.8
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	4	0.8
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	4	0.8
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	4	0.8
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	4	0.8
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	4	0.8
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD11	3	0.78
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD12	3	0.78
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD13	3	0.78
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD21	3	0.78
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD22	3	0.78
(1,868)	1:B:120:PHE:HD1	1:B:117:LEU:HD23	3	0.78
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD11	3	0.78
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD12	3	0.78
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD13	3	0.78
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD21	3	0.78
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD22	3	0.78
(1,868)	1:B:120:PHE:HD2	1:B:117:LEU:HD23	3	0.78
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD11	3	0.78
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD12	3	0.78
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD13	3	0.78
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD21	3	0.78
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD22	3	0.78
(1,868)	1:B:120:PHE:HE1	1:B:117:LEU:HD23	3	0.78
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD11	3	0.78
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD12	3	0.78
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD13	3	0.78
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD21	3	0.78
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD22	3	0.78
(1,868)	1:B:120:PHE:HE2	1:B:117:LEU:HD23	3	0.78
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD21	10	0.76
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD22	10	0.76
(1,798)	1:A:24:VAL:HA	1:A:25:LEU:HD23	10	0.76
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	5	0.76
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	5	0.76
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	5	0.76
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	5	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	5	0.76
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	5	0.76
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	5	0.76
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	5	0.76
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD21	10	0.76
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD22	10	0.76
(1,363)	1:A:24:VAL:HA	1:A:25:LEU:HD23	10	0.76
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	5	0.75
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	5	0.75
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	5	0.75
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	5	0.75
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	9	0.74
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	9	0.74
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	9	0.74
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	9	0.74
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	9	0.74
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	9	0.74
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	6	0.72
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	6	0.72
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	6	0.72
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	6	0.72
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	6	0.72
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	6	0.72
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	6	0.72
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	6	0.72
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	6	0.71
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	6	0.71
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	6	0.71
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	6	0.71
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB2	4	0.7
(1,830)	1:A:18:LEU:HD21	1:A:22:PHE:HB3	4	0.7
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB2	4	0.7
(1,830)	1:A:18:LEU:HD22	1:A:22:PHE:HB3	4	0.7
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB2	4	0.7
(1,830)	1:A:18:LEU:HD23	1:A:22:PHE:HB3	4	0.7
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	10	0.68
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	10	0.68
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	10	0.68
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	10	0.68
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	10	0.65
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	10	0.65
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	10	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	10	0.65
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	10	0.65
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	10	0.65
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	10	0.65
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	10	0.65
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	8	0.6
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	8	0.6
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	8	0.6
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	8	0.6
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	8	0.6
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	8	0.6
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	2	0.59
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	2	0.59
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	2	0.59
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	2	0.59
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	2	0.59
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	2	0.59
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	9	0.56
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	9	0.56
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	9	0.56
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	9	0.56
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	9	0.56
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	9	0.56
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	9	0.55
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	9	0.55
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	9	0.55
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	9	0.55
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	9	0.55
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	9	0.55
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	9	0.55
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	9	0.55
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	9	0.55
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	9	0.55
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	9	0.55
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	9	0.55
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	1	0.54
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	1	0.54
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	1	0.54
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	1	0.54
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	1	0.54
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	1	0.54
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	3	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	3	0.5
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	3	0.5
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	3	0.5
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	3	0.5
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	3	0.5
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	4	0.49
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	4	0.49
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	4	0.49
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	4	0.49
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	4	0.49
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	4	0.49
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	4	0.49
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	4	0.49
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	4	0.49
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	4	0.49
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	4	0.49
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	4	0.49
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	9	0.49
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	9	0.49
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	9	0.49
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	9	0.49
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	9	0.49
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	9	0.49
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	9	0.49
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	9	0.49
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	9	0.49
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	9	0.49
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	9	0.49
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	9	0.49
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	6	0.48
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	6	0.48
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	6	0.48
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	6	0.48
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	6	0.48
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	6	0.48
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	6	0.48
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	6	0.48
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	6	0.48
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	6	0.48
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	6	0.48
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	6	0.48
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	2	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	2	0.47
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	2	0.47
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	2	0.47
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	2	0.47
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	2	0.47
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	2	0.47
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	2	0.47
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	9	0.47
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	9	0.47
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	9	0.47
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	9	0.47
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	3	0.46
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	3	0.46
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	8	0.46
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	8	0.46
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	3	0.46
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	3	0.46
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	3	0.46
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	3	0.46
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	3	0.46
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	3	0.46
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	3	0.46
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	3	0.46
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	3	0.46
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	3	0.46
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	3	0.46
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	3	0.46
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	1	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	1	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	2	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	2	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	4	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	4	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	9	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	9	0.45
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	8	0.45
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	8	0.45
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	8	0.45
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	8	0.45
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	8	0.45
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	8	0.45
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	8	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	8	0.45
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	2	0.45
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	2	0.45
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	2	0.45
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	2	0.45
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	8	0.45
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	8	0.45
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	8	0.45
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	8	0.45
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	5	0.44
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	5	0.44
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	6	0.44
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	6	0.44
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	7	0.44
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	7	0.44
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	10	0.44
(2,4)	1:B:127:ILE:HA	1:B:131:GLY:H	10	0.44
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	3	0.44
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	3	0.44
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	3	0.44
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	3	0.44
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	3	0.44
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	3	0.44
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	3	0.44
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	3	0.44
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	3	0.44
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	3	0.44
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	3	0.44
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	3	0.44
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	10	0.44
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	10	0.44
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	10	0.44
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	10	0.44
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	10	0.44
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	10	0.44
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	10	0.44
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	10	0.44
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	10	0.44
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	10	0.44
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	10	0.44
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	10	0.44
(1,74)	1:B:132:TRP:HA	1:B:133:ARG:H	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:A:32:TRP:HA	1:A:33:ARG:H	8	0.44
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	1	0.44
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	1	0.44
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	1	0.44
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	1	0.44
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	1	0.44
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	1	0.44
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	1	0.44
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	1	0.44
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	1	0.44
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	1	0.44
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	1	0.44
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	1	0.44
(1,509)	1:A:32:TRP:HA	1:A:33:ARG:H	8	0.44
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	5	0.42
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	5	0.42
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	5	0.42
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	5	0.42
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	5	0.42
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	5	0.42
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	9	0.41
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	9	0.41
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	9	0.41
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	9	0.41
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	9	0.41
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	9	0.41
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	9	0.41
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	9	0.41
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	1	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	1	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	2	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	2	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	3	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	3	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	4	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	4	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	5	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	5	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	6	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	6	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	7	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	7	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	8	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	8	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	9	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	9	0.4
(1,535)	1:B:122:PHE:HD1	1:B:123:ILE:H	7	0.4
(1,535)	1:B:122:PHE:HD2	1:B:123:ILE:H	7	0.4
(1,535)	1:B:122:PHE:HE1	1:B:123:ILE:H	7	0.4
(1,535)	1:B:122:PHE:HE2	1:B:123:ILE:H	7	0.4
(1,534)	1:B:122:PHE:HD1	1:B:123:ILE:H	7	0.4
(1,534)	1:B:122:PHE:HD2	1:B:123:ILE:H	7	0.4
(1,534)	1:B:122:PHE:HE1	1:B:123:ILE:H	7	0.4
(1,534)	1:B:122:PHE:HE2	1:B:123:ILE:H	7	0.4
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	10	0.39
(3,4)	1:B:129:PHE:HA	1:B:132:TRP:H	10	0.39
(1,533)	1:A:22:PHE:HD1	1:A:23:ILE:H	7	0.37
(1,533)	1:A:22:PHE:HD2	1:A:23:ILE:H	7	0.37
(1,533)	1:A:22:PHE:HE1	1:A:23:ILE:H	7	0.37
(1,533)	1:A:22:PHE:HE2	1:A:23:ILE:H	7	0.37
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	1	0.35
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	1	0.35
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	1	0.35
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	1	0.35
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	1	0.35
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	1	0.35
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	1	0.35
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	1	0.35
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	1	0.35
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	1	0.35
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	1	0.35
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	1	0.35
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	5	0.34
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	5	0.34
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	5	0.34
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	5	0.34
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	5	0.34
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	5	0.34
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	5	0.34
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	5	0.34
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	5	0.34
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	5	0.34
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	5	0.34
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	5	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	7	0.33
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	7	0.33
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	7	0.33
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	7	0.33
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	7	0.33
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	7	0.33
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	7	0.33
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	7	0.33
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	7	0.33
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	7	0.33
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	7	0.33
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	7	0.33
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	8	0.32
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	8	0.32
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	8	0.32
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	8	0.32
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	8	0.32
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	8	0.32
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	8	0.32
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	8	0.32
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	8	0.32
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	8	0.32
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	8	0.32
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	8	0.32
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	7	0.31
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	7	0.31
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	7	0.31
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	7	0.31
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	7	0.31
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	7	0.31
(1,190)	1:B:132:TRP:HB2	1:B:133:ARG:H	4	0.31
(1,190)	1:B:132:TRP:HB3	1:B:133:ARG:H	4	0.31
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	2	0.3
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	2	0.3
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	2	0.3
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	2	0.3
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	2	0.3
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	2	0.3
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	2	0.3
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	2	0.3
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	2	0.3
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	2	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	2	0.3
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	2	0.3
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	6	0.3
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	6	0.3
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	6	0.3
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	6	0.3
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	6	0.3
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	6	0.3
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	10	0.28
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	10	0.28
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	10	0.28
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	10	0.28
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	10	0.28
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	10	0.28
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	9	0.28
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	9	0.28
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	9	0.28
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	9	0.28
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	9	0.28
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	9	0.28
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	7	0.27
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	7	0.27
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	7	0.27
(1,628)	1:A:32:TRP:HB2	1:A:33:ARG:H	2	0.27
(1,628)	1:A:32:TRP:HB3	1:A:33:ARG:H	2	0.27
(1,628)	1:A:32:TRP:HB2	1:A:33:ARG:H	9	0.27
(1,628)	1:A:32:TRP:HB3	1:A:33:ARG:H	9	0.27
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	7	0.27
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	7	0.27
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	7	0.27
(1,190)	1:B:132:TRP:HB2	1:B:133:ARG:H	2	0.27
(1,190)	1:B:132:TRP:HB3	1:B:133:ARG:H	2	0.27
(1,190)	1:B:132:TRP:HB2	1:B:133:ARG:H	9	0.27
(1,190)	1:B:132:TRP:HB3	1:B:133:ARG:H	9	0.27
(1,189)	1:A:32:TRP:HB2	1:A:33:ARG:H	2	0.27
(1,189)	1:A:32:TRP:HB3	1:A:33:ARG:H	2	0.27
(1,189)	1:A:32:TRP:HB2	1:A:33:ARG:H	9	0.27
(1,189)	1:A:32:TRP:HB3	1:A:33:ARG:H	9	0.27
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	8	0.26
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	8	0.26
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	8	0.26
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	8	0.26
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	8	0.26
(1,628)	1:A:32:TRP:HB2	1:A:33:ARG:H	6	0.25
(1,628)	1:A:32:TRP:HB3	1:A:33:ARG:H	6	0.25
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	5	0.25
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	5	0.25
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	5	0.25
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	5	0.25
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	5	0.25
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	5	0.25
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	10	0.25
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	10	0.25
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	10	0.25
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	10	0.25
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	10	0.25
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	10	0.25
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	9	0.25
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	9	0.25
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	9	0.25
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	9	0.25
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	9	0.25
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	9	0.25
(1,190)	1:B:132:TRP:HB2	1:B:133:ARG:H	6	0.25
(1,190)	1:B:132:TRP:HB3	1:B:133:ARG:H	6	0.25
(1,189)	1:A:32:TRP:HB2	1:A:33:ARG:H	6	0.25
(1,189)	1:A:32:TRP:HB3	1:A:33:ARG:H	6	0.25
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	4	0.24
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	4	0.24
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	4	0.24
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	4	0.24
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	4	0.24
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	4	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	1	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	1	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	1	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	1	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	1	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	1	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	6	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	6	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	6	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	6	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	6	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	7	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	7	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	7	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	7	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	7	0.24
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	7	0.24
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	1	0.24
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	1	0.24
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	1	0.24
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	1	0.24
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	1	0.24
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	1	0.24
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	4	0.24
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	4	0.24
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	4	0.24
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	4	0.24
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	4	0.24
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	4	0.24
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	8	0.24
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	8	0.24
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	8	0.24
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	8	0.24
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	8	0.24
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	8	0.24
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	2	0.24
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	2	0.24
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	2	0.24
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	2	0.24
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	2	0.24
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	2	0.24
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	2	0.24
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	2	0.24
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	2	0.24
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	2	0.24
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	2	0.24
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	2	0.24
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	4	0.23
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	4	0.23
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	4	0.23
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	4	0.23
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	4	0.23
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	4	0.23
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	4	0.23
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	4	0.23
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	4	0.23
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	4	0.23
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	4	0.23
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB2	4	0.23
(1,831)	1:B:118:LEU:HD21	1:B:122:PHE:HB3	4	0.23
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB2	4	0.23
(1,831)	1:B:118:LEU:HD22	1:B:122:PHE:HB3	4	0.23
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB2	4	0.23
(1,831)	1:B:118:LEU:HD23	1:B:122:PHE:HB3	4	0.23
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	9	0.23
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	9	0.23
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	9	0.23
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	9	0.23
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	9	0.23
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	9	0.23
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	4	0.23
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	4	0.23
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	4	0.23
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	4	0.23
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	4	0.23
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	4	0.23
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	9	0.22
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	9	0.22
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	9	0.22
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	9	0.22
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	9	0.22
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	9	0.22
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	10	0.22
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	10	0.22
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	10	0.22
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD21	10	0.22
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD22	10	0.22
(1,799)	1:B:124:VAL:HA	1:B:125:LEU:HD23	10	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	2	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	2	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	2	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	2	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	2	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	2	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	3	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	3	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	3	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	3	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	3	0.22
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	3	0.22
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	5	0.22
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	5	0.22
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	5	0.22
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	5	0.22
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	5	0.22
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	5	0.22
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	6	0.22
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	6	0.22
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	6	0.22
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	6	0.22
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	6	0.22
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	6	0.22
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	7	0.22
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	7	0.22
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	7	0.22
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	7	0.22
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	7	0.22
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	7	0.22
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	2	0.22
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	2	0.22
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	2	0.22
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	2	0.22
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	2	0.22
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	2	0.22
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	2	0.22
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	2	0.22
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	2	0.22
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	2	0.22
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	2	0.22
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	2	0.22
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	4	0.22
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	4	0.22
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	4	0.22
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	4	0.22
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	4	0.22
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	9	0.22
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	9	0.22
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	9	0.22
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	9	0.22
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	9	0.22
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	9	0.22
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	6	0.21
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	6	0.21
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	6	0.21
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD11	4	0.21
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD12	4	0.21
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD13	4	0.21
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD21	4	0.21
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD22	4	0.21
(1,436)	1:A:18:LEU:HA	1:B:118:LEU:HD23	4	0.21
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	2	0.21
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	2	0.21
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	2	0.21
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	2	0.21
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	2	0.21
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	2	0.21
(1,435)	1:A:18:LEU:HD11	1:B:118:LEU:HA	3	0.21
(1,435)	1:A:18:LEU:HD12	1:B:118:LEU:HA	3	0.21
(1,435)	1:A:18:LEU:HD13	1:B:118:LEU:HA	3	0.21
(1,435)	1:A:18:LEU:HD21	1:B:118:LEU:HA	3	0.21
(1,435)	1:A:18:LEU:HD22	1:B:118:LEU:HA	3	0.21
(1,435)	1:A:18:LEU:HD23	1:B:118:LEU:HA	3	0.21
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	6	0.21
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	6	0.21
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	6	0.21
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	6	0.2
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	6	0.2
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	6	0.2
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	7	0.2
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	7	0.2
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	7	0.2
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	9	0.2
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	9	0.2
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	9	0.2
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	1	0.19
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	1	0.19
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	1	0.19
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	1	0.19
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	1	0.19
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	3	0.19
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	3	0.19
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	3	0.19
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	3	0.19
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	3	0.19
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	3	0.19
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	3	0.19
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	3	0.19
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	3	0.19
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	3	0.19
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	3	0.19
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	3	0.19
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	5	0.19
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	5	0.19
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	5	0.19
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	5	0.19
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	5	0.19
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	5	0.19
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	10	0.19
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	10	0.19
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	10	0.19
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	10	0.19
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	10	0.19
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	10	0.19
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	1	0.19
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	1	0.19
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	1	0.19
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	1	0.19
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	1	0.19
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	1	0.19
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	3	0.19
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	3	0.19
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	3	0.19
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	3	0.19
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	3	0.19
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	3	0.19
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	7	0.19
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	2	0.18
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	2	0.18
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	2	0.18
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	2	0.18
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	2	0.18
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	2	0.18
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	5	0.18
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	5	0.18
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	5	0.18
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	5	0.18
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	5	0.18
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	5	0.18
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	8	0.18
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	8	0.18
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	8	0.18
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	8	0.18
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	8	0.18
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	8	0.18
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	2	0.18
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	2	0.18
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	2	0.18
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	10	0.18
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	10	0.18
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	10	0.18
(1,790)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	3	0.18
(1,790)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	3	0.18
(1,790)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	3	0.18
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	6	0.18
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	6	0.18
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	10	0.18
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	10	0.18
(1,680)	1:A:19:ILE:HA	1:A:22:PHE:H	9	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	1	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	1	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	1	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	1	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	1	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	1	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	2	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	2	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	2	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	2	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	2	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	6	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	6	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	6	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	6	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	6	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	6	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	8	0.18
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	8	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	8	0.18
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	8	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	8	0.18
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	8	0.18
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	2	0.18
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	2	0.18
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	2	0.18
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	2	0.18
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	2	0.18
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	2	0.18
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	5	0.18
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	5	0.18
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	5	0.18
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	5	0.18
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	5	0.18
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	5	0.18
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	8	0.18
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	8	0.18
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	8	0.18
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	8	0.18
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	8	0.18
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	8	0.18
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	2	0.18
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	2	0.18
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	2	0.18
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	10	0.18
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	10	0.18
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	10	0.18
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	2	0.18
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	2	0.18
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	10	0.18
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	10	0.18
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	10	0.18
(1,355)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	3	0.18
(1,355)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	3	0.18
(1,355)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	3	0.18
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	6	0.18
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	6	0.18
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	10	0.18
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	10	0.18
(1,242)	1:B:119:ILE:HA	1:B:122:PHE:H	7	0.18
(1,241)	1:A:19:ILE:HA	1:A:22:PHE:H	9	0.18
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	6	0.17
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	6	0.17
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	6	0.17
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	6	0.17
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	6	0.17
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	6	0.17
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	7	0.17
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	7	0.17
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	7	0.17
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	7	0.17
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	7	0.17
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	7	0.17
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	9	0.17
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	9	0.17
(1,680)	1:A:19:ILE:HA	1:A:22:PHE:H	7	0.17
(1,664)	1:A:34:ILE:H	1:A:34:ILE:HA	8	0.17
(1,628)	1:A:32:TRP:HB2	1:A:33:ARG:H	4	0.17
(1,628)	1:A:32:TRP:HB3	1:A:33:ARG:H	4	0.17
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	4	0.17
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	4	0.17
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	4	0.17
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	4	0.17
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	4	0.17
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	4	0.17
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	4	0.17
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	4	0.17
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	4	0.17
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	4	0.17
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	4	0.17
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	3	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	3	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	3	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	3	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	3	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	3	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	3	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	3	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	3	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	3	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	3	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	3	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	4	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	4	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	4	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	4	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	4	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	4	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	4	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	4	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	4	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	4	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	4	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	4	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	8	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	8	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	8	0.17
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	8	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	8	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	8	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	8	0.17
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	8	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	8	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	8	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	8	0.17
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	8	0.17
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	6	0.17
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	6	0.17
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	6	0.17
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	6	0.17
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	6	0.17
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	7	0.17
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	7	0.17
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	7	0.17
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	7	0.17
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	7	0.17
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	7	0.17
(1,356)	1:B:127:ILE:HG21	1:B:128:HIS:HB2	3	0.17
(1,356)	1:B:127:ILE:HG22	1:B:128:HIS:HB2	3	0.17
(1,356)	1:B:127:ILE:HG23	1:B:128:HIS:HB2	3	0.17
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	4	0.17
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	4	0.17
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	9	0.17
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	9	0.17
(1,242)	1:B:119:ILE:HA	1:B:122:PHE:H	9	0.17
(1,241)	1:A:19:ILE:HA	1:A:22:PHE:H	7	0.17
(1,226)	1:B:134:ILE:H	1:B:134:ILE:HA	8	0.17
(1,225)	1:A:34:ILE:H	1:A:34:ILE:HA	8	0.17
(1,189)	1:A:32:TRP:HB2	1:A:33:ARG:H	4	0.17
(1,189)	1:A:32:TRP:HB3	1:A:33:ARG:H	4	0.17
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	10	0.16
(1,852)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	10	0.16
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	10	0.16
(1,852)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	10	0.16
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	10	0.16
(1,852)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	10	0.16
(1,790)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	1	0.16
(1,790)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	1	0.16
(1,790)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	1	0.16
(1,790)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	8	0.16
(1,790)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	8	0.16
(1,790)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	8	0.16
(1,790)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	10	0.16
(1,790)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	10	0.16
(1,790)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	10	0.16
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	4	0.16
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	4	0.16
(1,680)	1:A:19:ILE:HA	1:A:22:PHE:H	8	0.16
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB2	7	0.16
(1,416)	1:B:121:ILE:HG21	1:B:122:PHE:HB3	7	0.16
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB2	7	0.16
(1,416)	1:B:121:ILE:HG22	1:B:122:PHE:HB3	7	0.16
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB2	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,416)	1:B:121:ILE:HG23	1:B:122:PHE:HB3	7	0.16
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB2	10	0.16
(1,415)	1:A:21:ILE:HG21	1:A:22:PHE:HB3	10	0.16
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB2	10	0.16
(1,415)	1:A:21:ILE:HG22	1:A:22:PHE:HB3	10	0.16
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB2	10	0.16
(1,415)	1:A:21:ILE:HG23	1:A:22:PHE:HB3	10	0.16
(1,356)	1:B:127:ILE:HG21	1:B:128:HIS:HB2	1	0.16
(1,356)	1:B:127:ILE:HG22	1:B:128:HIS:HB2	1	0.16
(1,356)	1:B:127:ILE:HG23	1:B:128:HIS:HB2	1	0.16
(1,356)	1:B:127:ILE:HG21	1:B:128:HIS:HB2	8	0.16
(1,356)	1:B:127:ILE:HG22	1:B:128:HIS:HB2	8	0.16
(1,356)	1:B:127:ILE:HG23	1:B:128:HIS:HB2	8	0.16
(1,355)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	1	0.16
(1,355)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	1	0.16
(1,355)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	1	0.16
(1,355)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	8	0.16
(1,355)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	8	0.16
(1,355)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	8	0.16
(1,355)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	10	0.16
(1,355)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	10	0.16
(1,355)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	10	0.16
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	5	0.16
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	5	0.16
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	4	0.16
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	4	0.16
(1,242)	1:B:119:ILE:HA	1:B:122:PHE:H	2	0.16
(1,241)	1:A:19:ILE:HA	1:A:22:PHE:H	8	0.16
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG21	6	0.15
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG22	6	0.15
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG23	6	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG21	6	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG22	6	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG23	6	0.15
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG21	10	0.15
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG22	10	0.15
(1,810)	1:A:20:PHE:HD1	1:A:23:ILE:HG23	10	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG21	10	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG22	10	0.15
(1,810)	1:A:20:PHE:HD2	1:A:23:ILE:HG23	10	0.15
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	3	0.15
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	3	0.15
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	9	0.15
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	9	0.15
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	9	0.15
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	5	0.15
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	5	0.15
(1,680)	1:A:19:ILE:HA	1:A:22:PHE:H	1	0.15
(1,680)	1:A:19:ILE:HA	1:A:22:PHE:H	2	0.15
(1,680)	1:A:19:ILE:HA	1:A:22:PHE:H	3	0.15
(1,664)	1:A:34:ILE:H	1:A:34:ILE:HA	9	0.15
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	7	0.15
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	7	0.15
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	7	0.15
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	7	0.15
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	7	0.15
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	7	0.15
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	7	0.15
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	7	0.15
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	7	0.15
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	7	0.15
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	7	0.15
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	7	0.15
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG21	6	0.15
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG22	6	0.15
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG23	6	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG21	6	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG22	6	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG23	6	0.15
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG21	10	0.15
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG22	10	0.15
(1,375)	1:A:20:PHE:HD1	1:A:23:ILE:HG23	10	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG21	10	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG22	10	0.15
(1,375)	1:A:20:PHE:HD2	1:A:23:ILE:HG23	10	0.15
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	3	0.15
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	3	0.15
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	3	0.15
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	3	0.15
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	3	0.15
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	3	0.15
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	9	0.15
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	9	0.15
(1,356)	1:B:127:ILE:HG21	1:B:128:HIS:HB2	10	0.15
(1,356)	1:B:127:ILE:HG22	1:B:128:HIS:HB2	10	0.15
(1,356)	1:B:127:ILE:HG23	1:B:128:HIS:HB2	10	0.15
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	5	0.15
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	5	0.15
(1,242)	1:B:119:ILE:HA	1:B:122:PHE:H	1	0.15
(1,242)	1:B:119:ILE:HA	1:B:122:PHE:H	3	0.15
(1,242)	1:B:119:ILE:HA	1:B:122:PHE:H	8	0.15
(1,241)	1:A:19:ILE:HA	1:A:22:PHE:H	1	0.15
(1,241)	1:A:19:ILE:HA	1:A:22:PHE:H	2	0.15
(1,241)	1:A:19:ILE:HA	1:A:22:PHE:H	3	0.15
(1,225)	1:A:34:ILE:H	1:A:34:ILE:HA	9	0.15
(1,778)	1:A:25:LEU:HD11	1:A:29:PHE:HD1	3	0.14
(1,778)	1:A:25:LEU:HD11	1:A:29:PHE:HD2	3	0.14
(1,778)	1:A:25:LEU:HD12	1:A:29:PHE:HD1	3	0.14
(1,778)	1:A:25:LEU:HD12	1:A:29:PHE:HD2	3	0.14
(1,778)	1:A:25:LEU:HD13	1:A:29:PHE:HD1	3	0.14
(1,778)	1:A:25:LEU:HD13	1:A:29:PHE:HD2	3	0.14
(1,712)	1:A:26:LEU:HA	1:A:30:GLU:H	10	0.14
(1,552)	1:A:26:LEU:HA	1:A:29:PHE:H	8	0.14
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	1	0.14
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	1	0.14
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	1	0.14
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	1	0.14
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	1	0.14
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	1	0.14
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	1	0.14
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	1	0.14
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	1	0.14
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	1	0.14
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	1	0.14
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	1	0.14
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	3	0.14
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	3	0.14
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	3	0.14
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	3	0.14
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	3	0.14
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	3	0.14
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	3	0.14
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	3	0.14
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	3	0.14
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	3	0.14
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	3	0.14
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	1	0.14
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	1	0.14
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	1	0.14
(1,343)	1:A:25:LEU:HD11	1:A:29:PHE:HD1	3	0.14
(1,343)	1:A:25:LEU:HD11	1:A:29:PHE:HD2	3	0.14
(1,343)	1:A:25:LEU:HD12	1:A:29:PHE:HD1	3	0.14
(1,343)	1:A:25:LEU:HD12	1:A:29:PHE:HD2	3	0.14
(1,343)	1:A:25:LEU:HD13	1:A:29:PHE:HD1	3	0.14
(1,343)	1:A:25:LEU:HD13	1:A:29:PHE:HD2	3	0.14
(1,274)	1:B:126:LEU:HA	1:B:130:GLU:H	10	0.14
(1,273)	1:A:26:LEU:HA	1:A:30:GLU:H	10	0.14
(1,114)	1:B:126:LEU:HA	1:B:129:PHE:H	4	0.14
(1,113)	1:A:26:LEU:HA	1:A:29:PHE:H	8	0.14
(1,95)	1:A:20:PHE:HB2	1:A:21:ILE:H	9	0.13
(1,95)	1:A:20:PHE:HB3	1:A:21:ILE:H	9	0.13
(1,814)	1:A:20:PHE:HE1	1:A:24:VAL:HG11	9	0.13
(1,814)	1:A:20:PHE:HE1	1:A:24:VAL:HG12	9	0.13
(1,814)	1:A:20:PHE:HE1	1:A:24:VAL:HG13	9	0.13
(1,814)	1:A:20:PHE:HE2	1:A:24:VAL:HG11	9	0.13
(1,814)	1:A:20:PHE:HE2	1:A:24:VAL:HG12	9	0.13
(1,814)	1:A:20:PHE:HE2	1:A:24:VAL:HG13	9	0.13
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	1	0.13
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	1	0.13
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	1	0.13
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	8	0.13
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	8	0.13
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	8	0.13
(1,778)	1:A:25:LEU:HD11	1:A:29:PHE:HD1	10	0.13
(1,778)	1:A:25:LEU:HD11	1:A:29:PHE:HD2	10	0.13
(1,778)	1:A:25:LEU:HD12	1:A:29:PHE:HD1	10	0.13
(1,778)	1:A:25:LEU:HD12	1:A:29:PHE:HD2	10	0.13
(1,778)	1:A:25:LEU:HD13	1:A:29:PHE:HD1	10	0.13
(1,778)	1:A:25:LEU:HD13	1:A:29:PHE:HD2	10	0.13
(1,732)	1:A:12:ILE:HA	1:A:12:ILE:HD11	10	0.13
(1,732)	1:A:12:ILE:HA	1:A:12:ILE:HD12	10	0.13
(1,732)	1:A:12:ILE:HA	1:A:12:ILE:HD13	10	0.13
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	2	0.13
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	2	0.13
(1,644)	1:A:30:GLU:H	1:A:30:GLU:HG2	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,644)	1:A:30:GLU:H	1:A:30:GLU:HG3	3	0.13
(1,552)	1:A:26:LEU:HA	1:A:29:PHE:H	6	0.13
(1,531)	1:A:20:PHE:HB2	1:A:21:ILE:H	9	0.13
(1,531)	1:A:20:PHE:HB3	1:A:21:ILE:H	9	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	6	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	6	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	6	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	6	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	6	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	6	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	6	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	6	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	6	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	6	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	6	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	6	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	7	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	7	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	7	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	7	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	7	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	7	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	7	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	7	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	7	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	7	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	7	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	7	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	9	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	9	0.13
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	9	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	9	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	9	0.13
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	9	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	9	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	9	0.13
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	9	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	9	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	9	0.13
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	9	0.13
(1,379)	1:A:20:PHE:HE1	1:A:24:VAL:HG11	9	0.13
(1,379)	1:A:20:PHE:HE1	1:A:24:VAL:HG12	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,379)	1:A:20:PHE:HE1	1:A:24:VAL:HG13	9	0.13
(1,379)	1:A:20:PHE:HE2	1:A:24:VAL:HG11	9	0.13
(1,379)	1:A:20:PHE:HE2	1:A:24:VAL:HG12	9	0.13
(1,379)	1:A:20:PHE:HE2	1:A:24:VAL:HG13	9	0.13
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	1	0.13
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	1	0.13
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	1	0.13
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	8	0.13
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	8	0.13
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	8	0.13
(1,344)	1:B:125:LEU:HD11	1:B:129:PHE:HD1	3	0.13
(1,344)	1:B:125:LEU:HD11	1:B:129:PHE:HD2	3	0.13
(1,344)	1:B:125:LEU:HD12	1:B:129:PHE:HD1	3	0.13
(1,344)	1:B:125:LEU:HD12	1:B:129:PHE:HD2	3	0.13
(1,344)	1:B:125:LEU:HD13	1:B:129:PHE:HD1	3	0.13
(1,344)	1:B:125:LEU:HD13	1:B:129:PHE:HD2	3	0.13
(1,343)	1:A:25:LEU:HD11	1:A:29:PHE:HD1	10	0.13
(1,343)	1:A:25:LEU:HD11	1:A:29:PHE:HD2	10	0.13
(1,343)	1:A:25:LEU:HD12	1:A:29:PHE:HD1	10	0.13
(1,343)	1:A:25:LEU:HD12	1:A:29:PHE:HD2	10	0.13
(1,343)	1:A:25:LEU:HD13	1:A:29:PHE:HD1	10	0.13
(1,343)	1:A:25:LEU:HD13	1:A:29:PHE:HD2	10	0.13
(1,293)	1:A:12:ILE:HA	1:A:12:ILE:HD11	10	0.13
(1,293)	1:A:12:ILE:HA	1:A:12:ILE:HD12	10	0.13
(1,293)	1:A:12:ILE:HA	1:A:12:ILE:HD13	10	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	2	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	2	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	6	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	6	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	9	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	9	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	10	0.13
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	10	0.13
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	2	0.13
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	2	0.13
(1,205)	1:A:30:GLU:H	1:A:30:GLU:HG2	3	0.13
(1,205)	1:A:30:GLU:H	1:A:30:GLU:HG3	3	0.13
(1,114)	1:B:126:LEU:HA	1:B:129:PHE:H	6	0.13
(1,114)	1:B:126:LEU:HA	1:B:129:PHE:H	8	0.13
(1,113)	1:A:26:LEU:HA	1:A:29:PHE:H	6	0.13
(1,96)	1:B:120:PHE:HB2	1:B:121:ILE:H	9	0.12
(1,96)	1:B:120:PHE:HB3	1:B:121:ILE:H	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:A:14:THR:HA	1:A:18:LEU:HD21	7	0.12
(1,834)	1:A:14:THR:HA	1:A:18:LEU:HD22	7	0.12
(1,834)	1:A:14:THR:HA	1:A:18:LEU:HD23	7	0.12
(1,790)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	7	0.12
(1,790)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	7	0.12
(1,790)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	7	0.12
(1,778)	1:A:25:LEU:HD11	1:A:29:PHE:HD1	1	0.12
(1,778)	1:A:25:LEU:HD11	1:A:29:PHE:HD2	1	0.12
(1,778)	1:A:25:LEU:HD12	1:A:29:PHE:HD1	1	0.12
(1,778)	1:A:25:LEU:HD12	1:A:29:PHE:HD2	1	0.12
(1,778)	1:A:25:LEU:HD13	1:A:29:PHE:HD1	1	0.12
(1,778)	1:A:25:LEU:HD13	1:A:29:PHE:HD2	1	0.12
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	1	0.12
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	1	0.12
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	8	0.12
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	8	0.12
(1,628)	1:A:32:TRP:HB2	1:A:33:ARG:H	7	0.12
(1,628)	1:A:32:TRP:HB3	1:A:33:ARG:H	7	0.12
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	4	0.12
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	8	0.12
(1,552)	1:A:26:LEU:HA	1:A:29:PHE:H	2	0.12
(1,552)	1:A:26:LEU:HA	1:A:29:PHE:H	4	0.12
(1,552)	1:A:26:LEU:HA	1:A:29:PHE:H	5	0.12
(1,552)	1:A:26:LEU:HA	1:A:29:PHE:H	9	0.12
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	8	0.12
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	8	0.12
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	8	0.12
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	8	0.12
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	8	0.12
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	8	0.12
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	8	0.12
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	8	0.12
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	8	0.12
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	8	0.12
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	8	0.12
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	8	0.12
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	1	0.12
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	1	0.12
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	1	0.12
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	1	0.12
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	1	0.12
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	1	0.12
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	1	0.12
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	1	0.12
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	1	0.12
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	1	0.12
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	1	0.12
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	5	0.12
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	5	0.12
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	5	0.12
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	5	0.12
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	5	0.12
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	5	0.12
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	5	0.12
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	5	0.12
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	5	0.12
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	5	0.12
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	5	0.12
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	5	0.12
(1,398)	1:B:114:THR:HA	1:B:118:LEU:HD21	7	0.12
(1,398)	1:B:114:THR:HA	1:B:118:LEU:HD22	7	0.12
(1,398)	1:B:114:THR:HA	1:B:118:LEU:HD23	7	0.12
(1,397)	1:A:14:THR:HA	1:A:18:LEU:HD21	7	0.12
(1,397)	1:A:14:THR:HA	1:A:18:LEU:HD22	7	0.12
(1,397)	1:A:14:THR:HA	1:A:18:LEU:HD23	7	0.12
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	5	0.12
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	5	0.12
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	5	0.12
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD11	8	0.12
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD12	8	0.12
(1,370)	1:B:120:PHE:HA	1:B:123:ILE:HD13	8	0.12
(1,356)	1:B:127:ILE:HG21	1:B:128:HIS:HB2	7	0.12
(1,356)	1:B:127:ILE:HG22	1:B:128:HIS:HB2	7	0.12
(1,356)	1:B:127:ILE:HG23	1:B:128:HIS:HB2	7	0.12
(1,355)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	7	0.12
(1,355)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	7	0.12
(1,355)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	7	0.12
(1,343)	1:A:25:LEU:HD11	1:A:29:PHE:HD1	1	0.12
(1,343)	1:A:25:LEU:HD11	1:A:29:PHE:HD2	1	0.12
(1,343)	1:A:25:LEU:HD12	1:A:29:PHE:HD1	1	0.12
(1,343)	1:A:25:LEU:HD12	1:A:29:PHE:HD2	1	0.12
(1,343)	1:A:25:LEU:HD13	1:A:29:PHE:HD1	1	0.12
(1,343)	1:A:25:LEU:HD13	1:A:29:PHE:HD2	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,294)	1:B:112:ILE:HA	1:B:112:ILE:HD11	10	0.12
(1,294)	1:B:112:ILE:HA	1:B:112:ILE:HD12	10	0.12
(1,294)	1:B:112:ILE:HA	1:B:112:ILE:HD13	10	0.12
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	1	0.12
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	1	0.12
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	8	0.12
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	8	0.12
(1,190)	1:B:132:TRP:HB2	1:B:133:ARG:H	7	0.12
(1,190)	1:B:132:TRP:HB3	1:B:133:ARG:H	7	0.12
(1,189)	1:A:32:TRP:HB2	1:A:33:ARG:H	7	0.12
(1,189)	1:A:32:TRP:HB3	1:A:33:ARG:H	7	0.12
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	8	0.12
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	4	0.12
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	8	0.12
(1,114)	1:B:126:LEU:HA	1:B:129:PHE:H	2	0.12
(1,114)	1:B:126:LEU:HA	1:B:129:PHE:H	5	0.12
(1,113)	1:A:26:LEU:HA	1:A:29:PHE:H	2	0.12
(1,113)	1:A:26:LEU:HA	1:A:29:PHE:H	4	0.12
(1,113)	1:A:26:LEU:HA	1:A:29:PHE:H	5	0.12
(1,113)	1:A:26:LEU:HA	1:A:29:PHE:H	9	0.12
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD11	5	0.11
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD12	5	0.11
(1,804)	1:A:20:PHE:HA	1:A:23:ILE:HD13	5	0.11
(1,790)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	4	0.11
(1,790)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	4	0.11
(1,790)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	4	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	1	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	1	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	2	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	2	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	3	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	3	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	4	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	4	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	5	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	5	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	6	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	6	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	7	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	7	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	8	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	9	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	9	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD2	10	0.11
(1,716)	1:A:4:ALA:HA	1:A:5:PRO:HD3	10	0.11
(1,712)	1:A:26:LEU:HA	1:A:30:GLU:H	1	0.11
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB2	7	0.11
(1,692)	1:A:17:LEU:HA	1:A:20:PHE:HB3	7	0.11
(1,680)	1:A:19:ILE:HA	1:A:22:PHE:H	4	0.11
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	2	0.11
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	3	0.11
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	5	0.11
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	6	0.11
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	7	0.11
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	9	0.11
(1,594)	1:A:31:GLY:HA3	1:A:32:TRP:H	10	0.11
(1,592)	1:A:32:TRP:H	1:A:33:ARG:H	6	0.11
(1,552)	1:A:26:LEU:HA	1:A:29:PHE:H	7	0.11
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG21	5	0.11
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG22	5	0.11
(1,422)	1:A:10:PHE:HD1	1:B:114:THR:HG23	5	0.11
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG21	5	0.11
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG22	5	0.11
(1,422)	1:A:10:PHE:HD2	1:B:114:THR:HG23	5	0.11
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG21	5	0.11
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG22	5	0.11
(1,422)	1:A:10:PHE:HE1	1:B:114:THR:HG23	5	0.11
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG21	5	0.11
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG22	5	0.11
(1,422)	1:A:10:PHE:HE2	1:B:114:THR:HG23	5	0.11
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	6	0.11
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	6	0.11
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	6	0.11
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	6	0.11
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	6	0.11
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	6	0.11
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	6	0.11
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	6	0.11
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	6	0.11
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	6	0.11
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	6	0.11
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	6	0.11
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD1	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HD2	10	0.11
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE1	10	0.11
(1,421)	1:A:14:THR:HG21	1:B:110:PHE:HE2	10	0.11
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD1	10	0.11
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HD2	10	0.11
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE1	10	0.11
(1,421)	1:A:14:THR:HG22	1:B:110:PHE:HE2	10	0.11
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD1	10	0.11
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HD2	10	0.11
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE1	10	0.11
(1,421)	1:A:14:THR:HG23	1:B:110:PHE:HE2	10	0.11
(1,380)	1:B:120:PHE:HE1	1:B:124:VAL:HG11	9	0.11
(1,380)	1:B:120:PHE:HE1	1:B:124:VAL:HG12	9	0.11
(1,380)	1:B:120:PHE:HE1	1:B:124:VAL:HG13	9	0.11
(1,380)	1:B:120:PHE:HE2	1:B:124:VAL:HG11	9	0.11
(1,380)	1:B:120:PHE:HE2	1:B:124:VAL:HG12	9	0.11
(1,380)	1:B:120:PHE:HE2	1:B:124:VAL:HG13	9	0.11
(1,376)	1:B:120:PHE:HD1	1:B:123:ILE:HG21	7	0.11
(1,376)	1:B:120:PHE:HD1	1:B:123:ILE:HG22	7	0.11
(1,376)	1:B:120:PHE:HD1	1:B:123:ILE:HG23	7	0.11
(1,376)	1:B:120:PHE:HD2	1:B:123:ILE:HG21	7	0.11
(1,376)	1:B:120:PHE:HD2	1:B:123:ILE:HG22	7	0.11
(1,376)	1:B:120:PHE:HD2	1:B:123:ILE:HG23	7	0.11
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD11	5	0.11
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD12	5	0.11
(1,369)	1:A:20:PHE:HA	1:A:23:ILE:HD13	5	0.11
(1,355)	1:A:27:ILE:HG21	1:A:28:HIS:HB2	4	0.11
(1,355)	1:A:27:ILE:HG22	1:A:28:HIS:HB2	4	0.11
(1,355)	1:A:27:ILE:HG23	1:A:28:HIS:HB2	4	0.11
(1,344)	1:B:125:LEU:HD11	1:B:129:PHE:HD1	1	0.11
(1,344)	1:B:125:LEU:HD11	1:B:129:PHE:HD2	1	0.11
(1,344)	1:B:125:LEU:HD12	1:B:129:PHE:HD1	1	0.11
(1,344)	1:B:125:LEU:HD12	1:B:129:PHE:HD2	1	0.11
(1,344)	1:B:125:LEU:HD13	1:B:129:PHE:HD1	1	0.11
(1,344)	1:B:125:LEU:HD13	1:B:129:PHE:HD2	1	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	1	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	1	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	2	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	2	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	3	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	3	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	4	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	5	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	5	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	6	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	6	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	7	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	7	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	8	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	8	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	9	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	9	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD2	10	0.11
(1,278)	1:B:104:ALA:HA	1:B:105:PRO:HD3	10	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	1	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	1	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	2	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	2	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	3	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	3	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	4	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	4	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	5	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	5	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	6	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	6	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	7	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	7	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	8	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	8	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	9	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	9	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD2	10	0.11
(1,277)	1:A:4:ALA:HA	1:A:5:PRO:HD3	10	0.11
(1,274)	1:B:126:LEU:HA	1:B:130:GLU:H	1	0.11
(1,273)	1:A:26:LEU:HA	1:A:30:GLU:H	1	0.11
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	1	0.11
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	1	0.11
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB2	8	0.11
(1,254)	1:B:117:LEU:HA	1:B:120:PHE:HB3	8	0.11
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB2	7	0.11
(1,253)	1:A:17:LEU:HA	1:A:20:PHE:HB3	7	0.11
(1,242)	1:B:119:ILE:HA	1:B:122:PHE:H	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,241)	1:A:19:ILE:HA	1:A:22:PHE:H	4	0.11
(1,226)	1:B:134:ILE:H	1:B:134:ILE:HA	9	0.11
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	2	0.11
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	3	0.11
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	4	0.11
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	5	0.11
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	6	0.11
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	7	0.11
(1,156)	1:B:131:GLY:HA3	1:B:132:TRP:H	9	0.11
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	2	0.11
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	3	0.11
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	5	0.11
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	6	0.11
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	7	0.11
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	9	0.11
(1,155)	1:A:31:GLY:HA3	1:A:32:TRP:H	10	0.11
(1,153)	1:A:32:TRP:H	1:A:33:ARG:H	6	0.11
(1,114)	1:B:126:LEU:HA	1:B:129:PHE:H	7	0.11
(1,114)	1:B:126:LEU:HA	1:B:129:PHE:H	9	0.11
(1,113)	1:A:26:LEU:HA	1:A:29:PHE:H	7	0.11

10 Dihedral-angle violation analysis

Dihedral angle analysis failed due to data error in the dihedral angle restraints, possibly missing target value