Full wwPDB NMR Structure Validation Report ⓘ

Jun 3, 2023 – 08:18 PM EDT

PDB ID	:	2N0K
BMRB ID	:	25527
Title	:	Chemical shift assignments and structure of the alpha-crystallin domain from human, HSPB5
Authors	:	Rajagopal, P.; Klevit, R.E.; Shi, L.; Baker, D.
Deposited on	:	2015-03-09

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

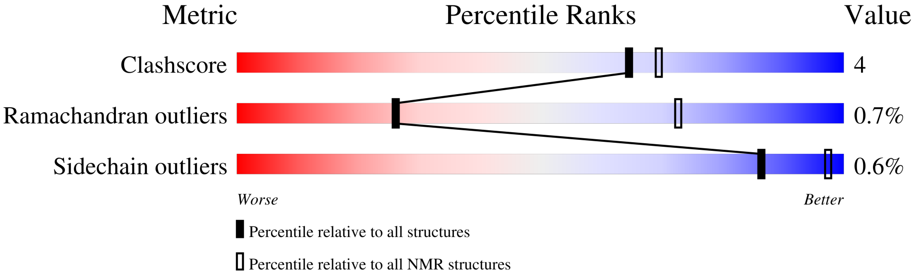
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal 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 43%.

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 <=5%

Mol	Chain	Length	Quality of chain
1	A	89	
1	B	89	

2 Ensemble composition and analysis ⓘ

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

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:67-A:149, B:67-B:149 (166)	1.50	9

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

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

The models can be grouped into 1 clusters and 4 single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2868 atoms, of which 1432 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Alpha-crystallin B chain.

Mol	Chain	Residues	Atoms						Trace
1	A	89	Total	C	H	N	O	S	0
			1434	448	716	130	139	1	
1	B	89	Total	C	H	N	O	S	0
			1434	448	716	130	139	1	

There are 2 discrepancies between the modelled and reference sequences:

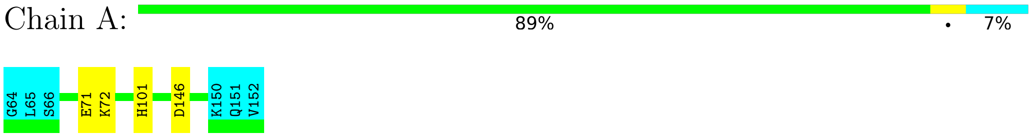
Chain	Residue	Modelled	Actual	Comment	Reference
A	146	ASP	ASN	engineered mutation	UNP P02511
B	146	ASP	ASN	engineered mutation	UNP P02511

4 Residue-property plots ⓘ

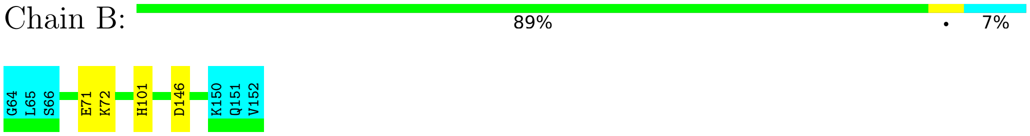
4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Alpha-crystallin B chain



- Molecule 1: Alpha-crystallin B chain

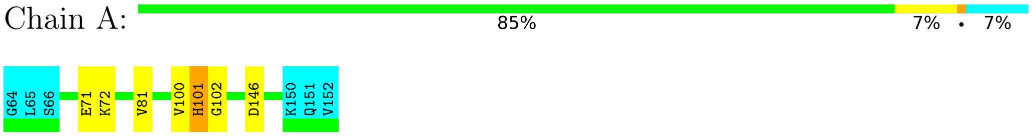


4.2 Scores per residue for each member of the ensemble

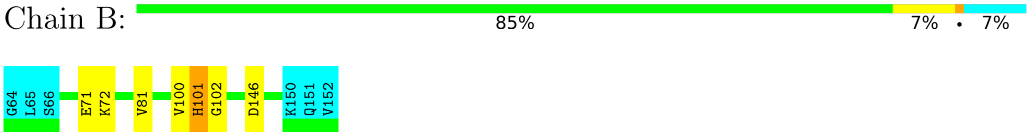
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Alpha-crystallin B chain

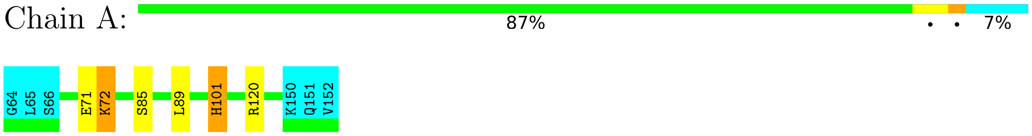


- Molecule 1: Alpha-crystallin B chain

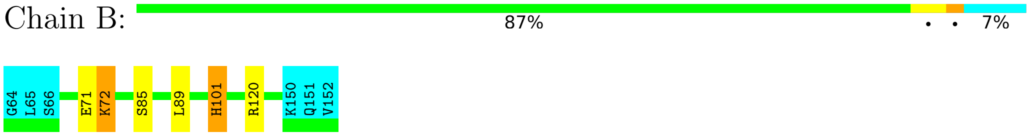


4.2.2 Score per residue for model 2

- Molecule 1: Alpha-crystallin B chain

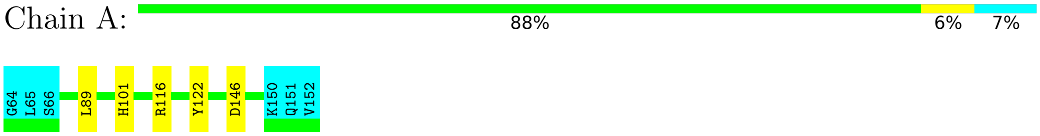


- Molecule 1: Alpha-crystallin B chain

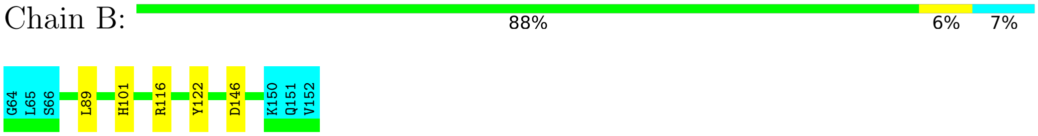


4.2.3 Score per residue for model 3

- Molecule 1: Alpha-crystallin B chain

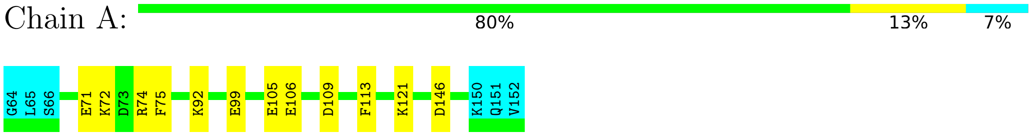


- Molecule 1: Alpha-crystallin B chain

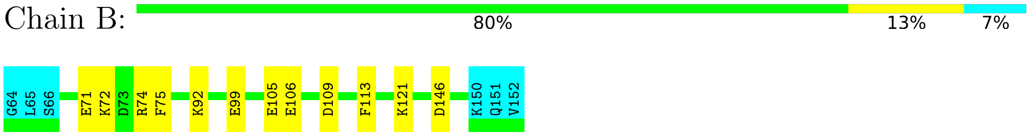


4.2.4 Score per residue for model 4

- Molecule 1: Alpha-crystallin B chain



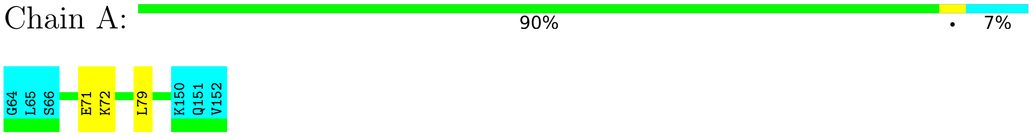
- Molecule 1: Alpha-crystallin B chain



4.2.5 Score per residue for model 5

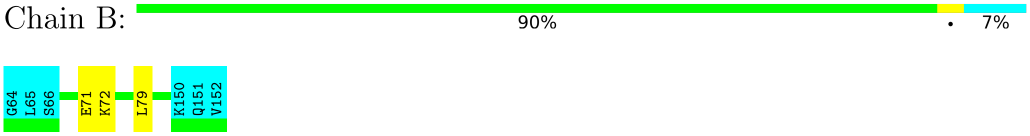
- Molecule 1: Alpha-crystallin B chain

Chain A:



- Molecule 1: Alpha-crystallin B chain

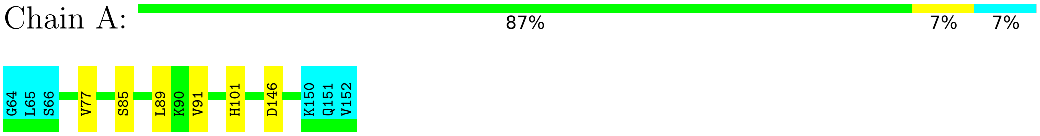
Chain B:



4.2.6 Score per residue for model 6

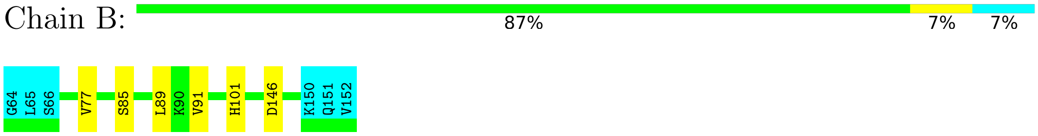
- Molecule 1: Alpha-crystallin B chain

Chain A:



- Molecule 1: Alpha-crystallin B chain

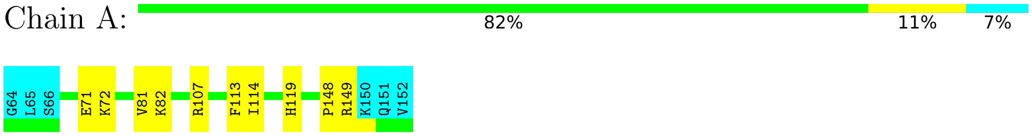
Chain B:



4.2.7 Score per residue for model 7

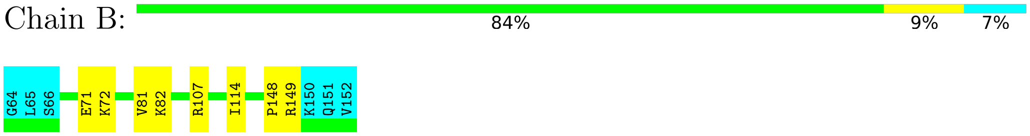
- Molecule 1: Alpha-crystallin B chain

Chain A:



- Molecule 1: Alpha-crystallin B chain

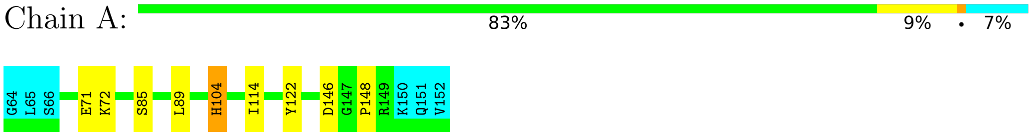
Chain B:



4.2.8 Score per residue for model 8

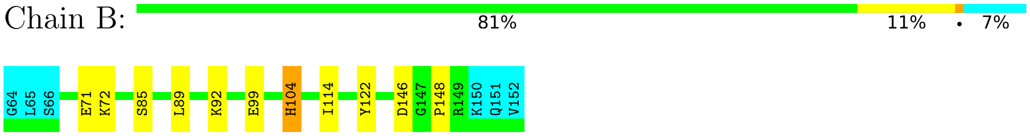
- Molecule 1: Alpha-crystallin B chain

Chain A:



- Molecule 1: Alpha-crystallin B chain

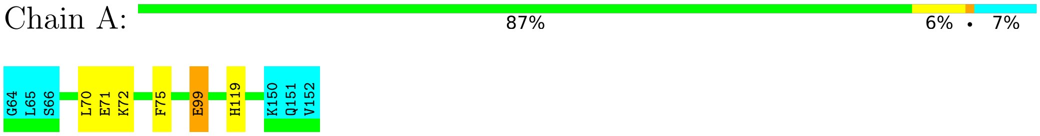
Chain B:



4.2.9 Score per residue for model 9 (medoid)

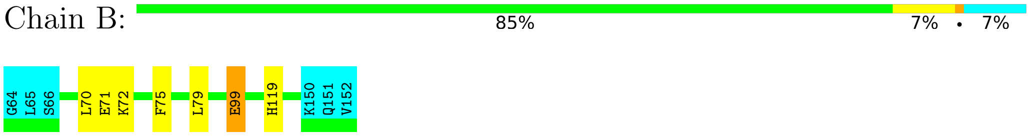
- Molecule 1: Alpha-crystallin B chain

Chain A:



- Molecule 1: Alpha-crystallin B chain

Chain B:



5 Refinement protocol and experimental data overview ⓘ

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

Of the 100 calculated structures, 9 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	**Classification**	**Version**
CS-ROSETTA	structure solution	
RosettaOligomer	structure solution	
TALOS	refinement	
RosettaOligomer	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	1075
Number of shifts mapped to atoms	1075
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	43%

6 Model quality ⓘ

6.1 Standard geometry ⓘ

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	674	665	664	6±2
1	B	674	665	664	6±2
All	All	12132	11970	11952	102

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 4.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:119:HIS:ND1	1:B:119:HIS:O	0.85	2.09	9	1
1:A:119:HIS:ND1	1:A:119:HIS:O	0.83	2.09	9	1
1:B:146:ASP:O	1:B:146:ASP:OD1	0.72	2.07	8	2
1:A:146:ASP:OD1	1:A:146:ASP:O	0.71	2.07	8	2
1:B:77:VAL:HG13	1:B:77:VAL:O	0.67	1.89	6	1
1:B:81:VAL:HG12	1:B:81:VAL:O	0.67	1.90	1	2
1:A:77:VAL:HG13	1:A:77:VAL:O	0.66	1.89	6	1
1:B:116:ARG:HG3	1:B:116:ARG:O	0.66	1.90	3	1
1:A:81:VAL:O	1:A:81:VAL:HG12	0.66	1.90	1	2
1:A:116:ARG:HG3	1:A:116:ARG:O	0.65	1.90	3	1
1:B:101:HIS:ND1	1:B:101:HIS:O	0.64	2.31	1	1
1:A:71:GLU:O	1:A:72:LYS:C	0.64	2.36	2	7
1:A:101:HIS:ND1	1:A:101:HIS:O	0.63	2.31	1	1

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Atom-1	**Atom-2**	**Clash(Å)**	**Distance(Å)**	**Models**	
				Worst	Total
1:B:71:GLU:O	1:B:72:LYS:C	0.62	2.36	2	7
1:A:99:GLU:HG3	1:A:99:GLU:O	0.60	1.96	9	1
1:B:99:GLU:O	1:B:99:GLU:HG3	0.60	1.96	9	1
1:A:114:ILE:C	1:A:114:ILE:HD12	0.58	2.18	8	1
1:B:114:ILE:C	1:B:114:ILE:HD12	0.58	2.18	8	1
1:A:105:GLU:O	1:A:106:GLU:C	0.57	2.43	4	1
1:B:105:GLU:O	1:B:106:GLU:C	0.56	2.43	4	1
1:A:146:ASP:C	1:A:146:ASP:OD1	0.55	2.45	6	3
1:B:101:HIS:CD2	1:B:101:HIS:N	0.55	2.75	2	1
1:B:120:ARG:O	1:B:120:ARG:CG	0.55	2.55	2	1
1:A:77:VAL:O	1:A:77:VAL:CG1	0.55	2.55	6	1
1:B:146:ASP:C	1:B:146:ASP:OD1	0.54	2.45	6	3
1:A:120:ARG:CG	1:A:120:ARG:O	0.54	2.55	2	1
1:A:75:PHE:O	1:A:75:PHE:CD2	0.54	2.61	9	1
1:B:77:VAL:O	1:B:77:VAL:CG1	0.53	2.55	6	1
1:A:101:HIS:CD2	1:A:101:HIS:N	0.53	2.75	2	1
1:B:75:PHE:O	1:B:75:PHE:CD2	0.53	2.61	9	1
1:A:81:VAL:O	1:A:82:LYS:C	0.50	2.50	7	1
1:A:113:PHE:O	1:B:121:LYS:N	0.49	2.44	4	1
1:B:81:VAL:O	1:B:82:LYS:C	0.48	2.50	7	1
1:A:81:VAL:O	1:A:81:VAL:CG1	0.48	2.61	1	2
1:B:116:ARG:O	1:B:116:ARG:CG	0.48	2.62	3	1
1:A:99:GLU:O	1:A:99:GLU:CG	0.48	2.62	9	1
1:A:101:HIS:O	1:A:101:HIS:CD2	0.48	2.67	3	2
1:A:121:LYS:N	1:B:113:PHE:O	0.48	2.44	4	1
1:B:99:GLU:O	1:B:99:GLU:CG	0.48	2.62	9	1
1:B:104:HIS:ND1	1:B:104:HIS:C	0.47	2.67	8	1
1:B:119:HIS:O	1:B:119:HIS:CG	0.47	2.67	9	1
1:B:101:HIS:O	1:B:101:HIS:CD2	0.47	2.67	3	2
1:A:122:TYR:C	1:A:122:TYR:CD1	0.47	2.88	3	2
1:A:104:HIS:C	1:A:104:HIS:ND1	0.47	2.67	8	1
1:B:122:TYR:CD1	1:B:122:TYR:C	0.46	2.88	3	2
1:A:101:HIS:CD2	1:A:101:HIS:C	0.45	2.90	6	2
1:A:85:SER:O	1:A:89:LEU:N	0.45	2.50	8	3
1:B:85:SER:O	1:B:89:LEU:N	0.44	2.50	8	3
1:A:75:PHE:CD1	1:A:75:PHE:C	0.44	2.91	4	1
1:B:81:VAL:O	1:B:81:VAL:CG1	0.44	2.65	7	1
1:B:101:HIS:CD2	1:B:101:HIS:C	0.44	2.90	6	2
1:B:70:LEU:C	1:B:70:LEU:HD23	0.43	2.33	9	1
1:B:100:VAL:O	1:B:102:GLY:N	0.43	2.51	1	1
1:A:70:LEU:HD23	1:A:70:LEU:C	0.43	2.33	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:91:VAL:O	1:A:91:VAL:HG13	0.43	2.14	6	1
1:B:75:PHE:C	1:B:75:PHE:CD1	0.42	2.91	4	1
1:B:91:VAL:O	1:B:91:VAL:HG13	0.42	2.14	6	1
1:A:119:HIS:O	1:A:119:HIS:CG	0.42	2.67	9	2
1:B:92:LYS:O	1:B:99:GLU:N	0.42	2.52	4	2
1:A:100:VAL:O	1:A:102:GLY:N	0.42	2.51	1	1
1:A:114:ILE:C	1:A:114:ILE:CD1	0.42	2.88	8	1
1:A:71:GLU:N	1:A:74:ARG:O	0.42	2.52	4	1
1:A:148:PRO:O	1:A:149:ARG:C	0.41	2.58	7	1
1:A:92:LYS:O	1:A:99:GLU:N	0.41	2.52	4	1
1:B:148:PRO:O	1:B:149:ARG:C	0.41	2.58	7	1
1:B:107:ARG:HB3	1:B:114:ILE:HG13	0.40	1.93	7	1
1:B:71:GLU:N	1:B:74:ARG:O	0.40	2.53	4	1
1:A:107:ARG:HB3	1:A:114:ILE:HG13	0.40	1.93	7	1
1:A:113:PHE:CD1	1:A:113:PHE:C	0.40	2.95	7	1

6.3 Torsion angles ⓘ

6.3.1 Protein backbone ⓘ

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	83/89 (93%)	69±3 (83±3%)	14±3 (17±3%)	1±0 (1±1%)	26	73
1	B	83/89 (93%)	69±3 (83±3%)	14±3 (17±3%)	1±0 (1±1%)	26	73
All	All	1494/1602 (93%)	1236 (83%)	248 (17%)	10 (1%)	26	73

All 10 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	101	HIS	1
1	B	101	HIS	1
1	A	72	LYS	1
1	B	72	LYS	1
1	A	109	ASP	1
1	B	109	ASP	1

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Mol	Chain	Res	Type	Models (Total)
1	A	148	PRO	1
1	B	148	PRO	1
1	A	99	GLU	1
1	B	99	GLU	1

6.3.2 Protein sidechains ⓘ

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	77/82 (94%)	77±0 (99±1%)	0±0 (1±1%)	86	97
1	B	77/82 (94%)	76±0 (99±1%)	1±0 (1±1%)	84	97
All	All	1386/1476 (94%)	1377 (99%)	9 (1%)	86	97

All 8 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	B	79	LEU	2
1	A	101	HIS	1
1	B	101	HIS	1
1	A	89	LEU	1
1	B	89	LEU	1
1	A	79	LEU	1
1	A	104	HIS	1
1	B	104	HIS	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.6 Ligand geometry ⓘ

There are no ligands in this entry.

6.7 Other polymers ⓘ

There are no such molecules in this entry.

6.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

7 Chemical shift validation ⓘ

The completeness of assignment taking into account all chemical shift lists is 43% for the well-defined parts and 43% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *HSPB5_ACD_chemical_shifts*

7.1.1 Bookkeeping ⓘ

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

Total number of shifts	1075
Number of shifts mapped to atoms	1075
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	4

7.1.2 Chemical shift referencing ⓘ

The following table shows the suggested chemical shift referencing corrections.

Nucleus	**# values**	**Correction ± precision, *ppm***	**Suggested action**
$^{13}C_{\alpha}$	87	-0.01 ± 0.21	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	82	0.22 ± 0.19	None needed (< 0.5 ppm)
$^{13}C'$	78	0.28 ± 0.15	None needed (< 0.5 ppm)
^{15}N	81	-0.43 ± 0.42	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments ⓘ

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 43%, i.e. 1006 atoms were assigned a chemical shift out of a possible 2334. 0 out of 32 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	**^{1}H**	**^{13}C**	**^{15}N**
Backbone	400/824 (49%)	166/334 (50%)	156/332 (47%)	78/158 (49%)
Sidechain	543/1336 (41%)	382/858 (45%)	159/420 (38%)	2/58 (3%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	63/174 (36%)	31/88 (35%)	22/70 (31%)	10/16 (62%)
Overall	1006/2334 (43%)	579/1280 (45%)	337/822 (41%)	90/232 (39%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 43%, i.e. 1073 atoms were assigned a chemical shift out of a possible 2494. 0 out of 36 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	421/886 (48%)	175/360 (49%)	165/356 (46%)	81/170 (48%)
Sidechain	589/1434 (41%)	414/922 (45%)	172/450 (38%)	3/62 (5%)
Aromatic	63/174 (36%)	31/88 (35%)	22/70 (31%)	10/16 (62%)
Overall	1073/2494 (43%)	620/1370 (45%)	359/876 (41%)	94/248 (38%)

7.1.4 Statistically unusual chemical shifts ⓘ

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

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	132	THR	HG1	5.90	0.08 – 2.19	22.6
1	A	144	THR	HG1	5.62	0.08 – 2.19	21.2
1	A	94	LEU	CG	35.67	21.37 – 32.19	8.2
1	A	102	GLY	HA3	1.95	2.08 – 5.71	-5.4

7.1.5 Random Coil Index (RCI) plots ⓘ

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

Random coil index (RCI) for chain A:


0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
RCI
65:LEU
68:MET
71:GLU
74:ARG
77:VAL
80:ASP
83:HIS
86:PRO
89:LEU
92:LYS
95:GLY
98:ILE
101:HIS
104:HIS
107:ARG
110:GLU
113:PHE
116:ARG
119:HIS
122:TYR
125:PRO
128:VAL
131:LEU
134:THR
137:LEU
140:ASP
143:LEU
146:ASP
149:ARG
152:VAL
Auth_seq_ID

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	1770
Intra-residue (|i-j|=0)	622
Sequential (|i-j|=1)	512
Medium range (|i-j|>1 and |i-j|<5)	200
Long range (|i-j|≥5)	400
Inter-chain	36
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	226
Number of unmapped restraints	0
Number of restraints per residue	11.2
Number of long range restraints per residue[1]	2.2

[1] Long 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)	127.6	0.2
0.2-0.5 (Medium)	261.9	0.5
>0.5 (Large)	358.6	20.97

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	27.4	9.8
10.0-20.0 (Medium)	17.7	19.8
>20.0 (Large)	25.9	134.6

9 Distance violation analysis

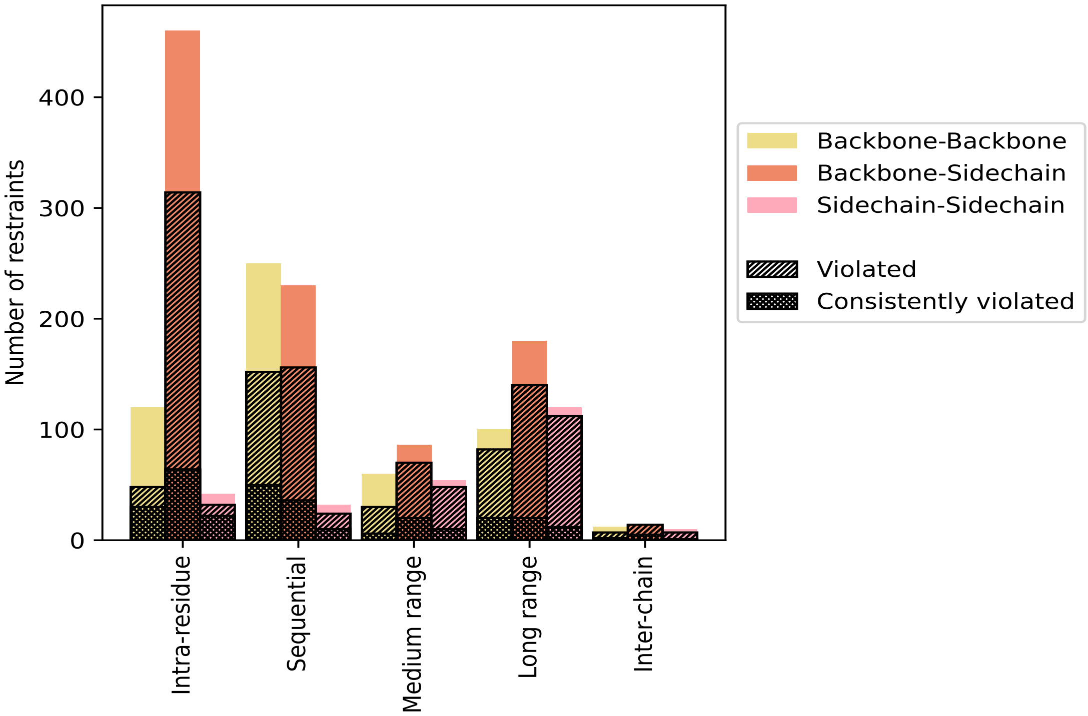
9.1 Summary of distance violations

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

Restraints type	**Count**	$\%^1$	**Violated**^{3}			**Consistently Violated**^{4}		
			Count	$\%^2$	$\%^1$	Count	$\%^2$	$\%^1$
Intra-residue ($\lvert i\text{-}j \rvert=0$)	622	35.1	394	63.3	22.3	116	18.6	6.6
Backbone-Backbone	120	6.8	48	40.0	2.7	30	25.0	1.7
Backbone-Sidechain	460	26.0	314	68.3	17.7	64	13.9	3.6
Sidechain-Sidechain	42	2.4	32	76.2	1.8	22	52.4	1.2
Sequential ($\lvert i\text{-}j \rvert=1$)	512	28.9	332	64.8	18.8	96	18.8	5.4
Backbone-Backbone	250	14.1	152	60.8	8.6	50	20.0	2.8
Backbone-Sidechain	230	13.0	156	67.8	8.8	36	15.7	2.0
Sidechain-Sidechain	32	1.8	24	75.0	1.4	10	31.2	0.6
Medium range ($\lvert i\text{-}j \rvert>1$ & $\lvert i\text{-}j \rvert<5$)	200	11.3	148	74.0	8.4	36	18.0	2.0
Backbone-Backbone	60	3.4	30	50.0	1.7	6	10.0	0.3
Backbone-Sidechain	86	4.9	70	81.4	4.0	20	23.3	1.1
Sidechain-Sidechain	54	3.1	48	88.9	2.7	10	18.5	0.6
Long range ($\lvert i\text{-}j \rvert\geq5$)	400	22.6	334	83.5	18.9	52	13.0	2.9
Backbone-Backbone	100	5.6	82	82.0	4.6	20	20.0	1.1
Backbone-Sidechain	180	10.2	140	77.8	7.9	20	11.1	1.1
Sidechain-Sidechain	120	6.8	112	93.3	6.3	12	10.0	0.7
Inter-chain	36	2.0	28	77.8	1.6	8	22.2	0.5
Backbone-Backbone	12	0.7	7	58.3	0.4	2	16.7	0.1
Backbone-Sidechain	14	0.8	14	100.0	0.8	5	35.7	0.3
Sidechain-Sidechain	10	0.6	7	70.0	0.4	1	10.0	0.1
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	1770	100.0	1236	69.8	69.8	308	17.4	17.4
Backbone-Backbone	542	30.6	319	58.9	18.0	108	19.9	6.1
Backbone-Sidechain	970	54.8	694	71.5	39.2	145	14.9	8.2
Sidechain-Sidechain	258	14.6	223	86.4	12.6	55	21.3	3.1

[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 ⓘ



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

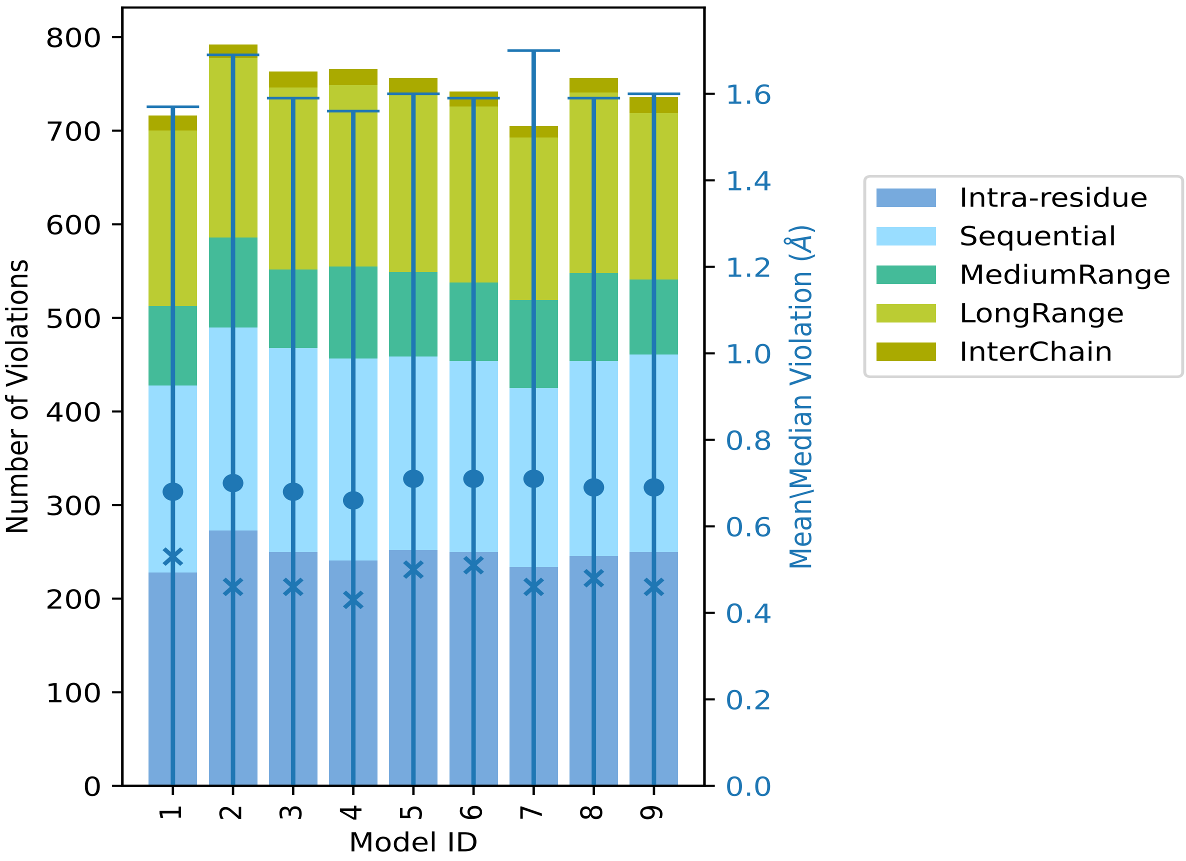
9.2 Distance violation statistics for each model ⓘ

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	228	200	85	187	16	716	0.68	18.39	0.89	0.53
2	273	217	96	192	14	792	0.7	20.97	0.99	0.46
3	250	218	84	194	17	763	0.68	18.73	0.91	0.46
4	241	216	98	194	17	766	0.66	18.24	0.9	0.43
5	252	207	90	192	15	756	0.71	16.6	0.89	0.5
6	250	204	84	188	16	742	0.71	16.85	0.88	0.51
7	234	191	94	174	12	705	0.71	18.97	0.99	0.46
8	246	208	94	193	15	756	0.69	18.48	0.9	0.48
9	250	211	80	178	17	736	0.69	17.84	0.91	0.46

[1] Intra-residue restraints, [2] Sequential restraints, [3] Medium range restraints, [4] Long range restraints, [5] Inter-chain restraints, [6] Standard 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, 534(IR:228, SQ:180, MR:52, LR:66, IC:8) 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]	%
43	42	14	37	7	143	1	11.1
42	31	22	48	4	147	2	22.2
38	32	7	39	0	116	3	33.3
29	27	11	20	4	91	4	44.4
28	22	20	32	0	102	5	55.6
29	16	18	36	1	100	6	66.7

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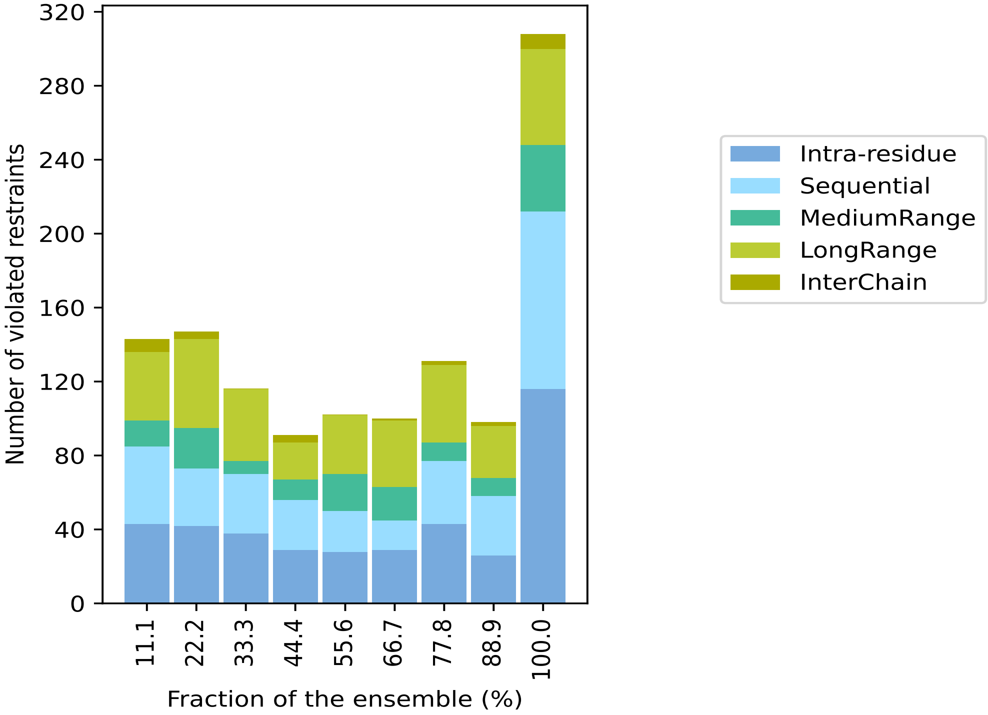
Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
43	34	10	42	2	131	7	77.8
26	32	10	28	2	98	8	88.9
116	96	36	52	8	308	9	100.0

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

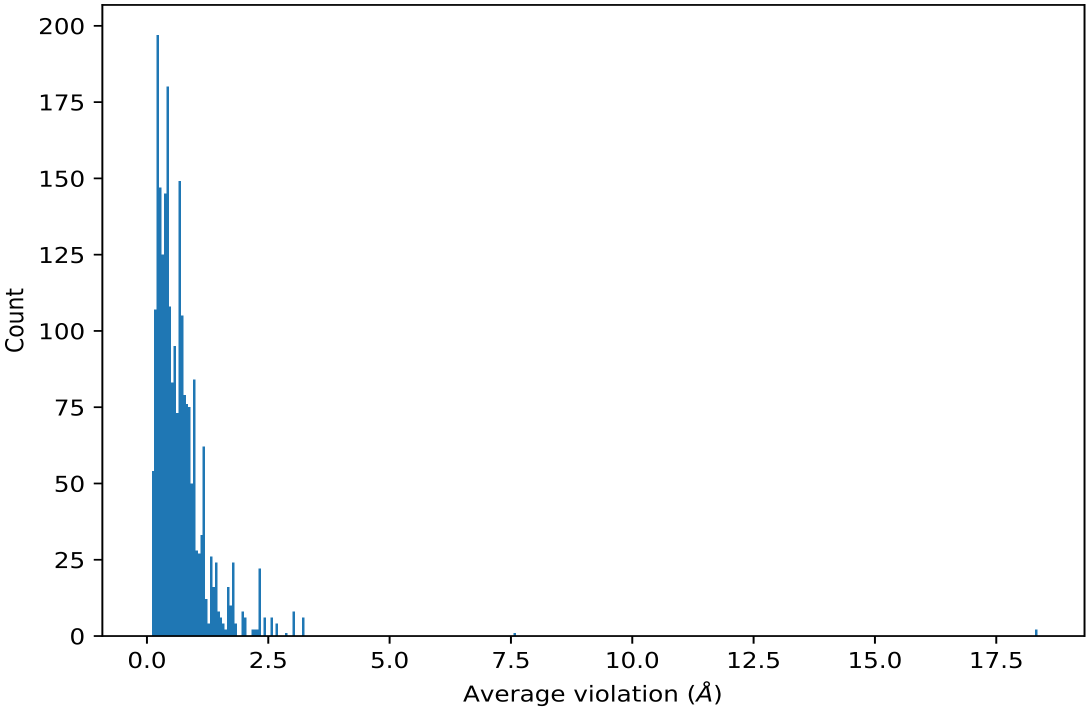
9.3.1 Bar graph : Distance violation statistics for the ensemble ⓘ



9.4 Most violated distance restraints in the ensemble ⓘ

9.4.1 Histogram : Distribution of mean distance violations ⓘ

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 ⓘ

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)
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	9	18.34	1.2	18.39
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	9	18.34	1.2	18.39
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	9	7.56	0.54	7.47
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	9	3.24	0.37	3.37
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	9	3.24	0.37	3.37
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	9	3.24	0.37	3.37
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	9	3.24	0.37	3.37
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	9	3.24	0.37	3.37
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	9	3.24	0.37	3.37
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	9	3.03	0.23	3.09
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	9	3.03	0.23	3.09
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	9	3.02	0.68	3.16
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	9	3.02	0.68	3.16
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	9	3.02	0.68	3.16
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	9	3.01	0.68	3.15
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	9	3.01	0.68	3.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	9	3.01	0.68	3.15
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	9	2.86	1.1	2.76
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	9	2.69	0.81	2.61
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	9	2.69	0.81	2.61
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	9	2.59	1.21	2.67
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	9	2.59	1.21	2.67
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	9	2.59	1.21	2.67
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	9	2.59	1.21	2.67
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	9	2.59	1.21	2.67
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	9	2.59	1.21	2.67
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	9	2.42	0.73	2.39
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	9	2.42	0.73	2.39
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	9	2.42	0.73	2.39
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	9	2.42	0.73	2.39
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	9	2.42	0.73	2.39
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	9	2.42	0.73	2.39
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	9	2.31	1.1	2.32
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	9	2.31	1.1	2.32
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	9	2.3	0.67	2.61
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	9	2.3	0.67	2.61
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	9	2.3	0.67	2.61
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	9	2.3	0.67	2.61
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	9	2.3	0.67	2.62
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	9	2.3	0.67	2.62
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	9	2.3	0.67	2.62
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	9	2.3	0.67	2.62
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	9	2.23	0.83	2.28
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	9	2.23	0.83	2.28
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	9	2.16	0.13	2.21
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	9	2.16	0.13	2.21
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	9	1.99	0.4	2.07
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	9	1.99	0.4	2.07
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	9	1.96	0.27	2.04
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	9	1.96	0.27	2.04
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	9	1.96	0.27	2.04
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	9	1.95	0.27	2.04
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	9	1.95	0.27	2.04
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	9	1.95	0.27	2.04
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	9	1.84	0.52	1.56
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	9	1.84	0.52	1.56
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	9	1.84	0.52	1.56
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	9	1.84	0.52	1.56

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	9	1.77	0.3	1.74
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	9	1.77	0.3	1.74
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	9	1.76	0.72	2.14
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	9	1.76	0.72	2.14
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	9	1.76	0.72	2.14
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	9	1.76	0.72	2.14
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	9	1.76	0.72	2.14
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	9	1.76	0.72	2.14
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	9	1.76	0.72	2.14
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	9	1.76	0.72	2.14
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	9	1.76	0.72	2.14
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	9	1.76	0.72	2.14
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	9	1.76	0.72	2.14
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	9	1.76	0.72	2.14
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	9	1.71	0.53	1.96
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	9	1.71	0.53	1.96
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	9	1.7	0.28	1.73
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	9	1.7	0.28	1.73
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	9	1.68	1.1	1.69
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	9	1.68	1.1	1.69
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	9	1.62	1.21	1.06
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	9	1.62	1.21	1.06
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	9	1.54	0.16	1.6
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	9	1.54	0.16	1.6
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	9	1.54	0.16	1.6
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	9	1.54	0.16	1.6
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	9	1.46	0.33	1.4
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	9	1.46	0.33	1.4
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	9	1.46	0.33	1.4
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	9	1.46	0.33	1.4
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	9	1.46	0.33	1.4
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	9	1.46	0.33	1.4
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	9	1.4	0.37	1.51
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	9	1.4	0.37	1.51
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	9	1.36	0.4	1.5
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	9	1.36	0.4	1.5
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	9	1.31	0.34	1.38
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	9	1.31	0.34	1.38
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	9	1.3	0.86	1.2
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	9	1.3	0.86	1.2
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	9	1.3	0.86	1.2
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	9	1.3	0.86	1.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	9	1.3	0.86	1.19
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	9	1.3	0.86	1.19
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	9	1.29	0.43	1.48
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	9	1.28	0.43	1.48
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	9	1.22	0.32	1.18
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	9	1.22	0.32	1.18
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	9	1.22	0.77	1.04
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	9	1.22	0.77	1.04
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	9	1.2	0.34	1.18
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	9	1.2	0.34	1.18
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	9	1.12	0.55	0.76
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	9	1.11	0.54	0.76
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	9	1.11	0.28	1.07
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	9	1.1	0.02	1.09
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	9	1.1	0.02	1.09
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	9	1.07	0.05	1.07
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	9	1.07	0.05	1.07
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	9	1.07	0.06	1.07
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	9	1.07	0.06	1.07
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	9	1.05	0.2	1.07
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	9	1.05	0.2	1.07
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	9	1.05	0.2	1.07
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	9	1.05	0.21	1.07
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	9	1.05	0.21	1.07
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	9	1.05	0.21	1.07
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	9	1.0	0.01	1.0
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	9	1.0	0.01	1.0
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	9	0.99	0.27	1.11
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	9	0.99	0.27	1.11
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	9	0.99	0.27	1.11
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	9	0.99	0.26	1.11
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	9	0.99	0.26	1.11
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	9	0.99	0.26	1.11
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	9	0.97	0.28	0.92
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	9	0.97	0.28	0.92
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	9	0.96	0.28	0.91
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	9	0.96	0.28	0.91
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	9	0.94	0.04	0.94
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	9	0.94	0.04	0.94
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	9	0.94	0.04	0.94
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	9	0.94	0.04	0.94
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	9	0.93	0.01	0.93

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	9	0.93	0.01	0.93
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	9	0.93	0.01	0.93
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	9	0.93	0.01	0.93
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	9	0.93	0.01	0.93
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	9	0.93	0.01	0.93
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	9	0.92	0.5	0.69
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	9	0.92	0.5	0.69
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	9	0.88	0.24	0.85
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	9	0.88	0.24	0.85
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	9	0.88	0.23	0.85
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	9	0.88	0.23	0.85
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	9	0.87	0.04	0.88
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	9	0.87	0.04	0.87
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	9	0.87	0.32	1.02
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	9	0.87	0.32	1.02
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	9	0.87	0.01	0.87
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	9	0.87	0.02	0.87
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	9	0.85	0.02	0.85
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	9	0.85	0.02	0.85
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	9	0.83	0.21	0.91
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	9	0.83	0.21	0.91
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	9	0.82	0.27	0.94
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	9	0.82	0.27	0.94
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	9	0.82	0.27	0.94
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	9	0.82	0.27	0.94
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	9	0.82	0.27	0.94
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	9	0.82	0.27	0.94
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	9	0.82	0.27	0.94
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	9	0.82	0.27	0.94
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	9	0.81	0.01	0.81
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	9	0.81	0.01	0.81
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	9	0.81	0.01	0.81
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	9	0.81	0.01	0.81
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	9	0.81	0.01	0.81
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	9	0.81	0.01	0.81
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	9	0.8	0.19	0.86
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	9	0.8	0.19	0.86
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	9	0.79	0.13	0.77
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	9	0.79	0.13	0.77
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	9	0.78	0.01	0.78
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	9	0.78	0.01	0.78
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	9	0.78	0.01	0.78

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	9	0.78	0.04	0.79
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	9	0.78	0.01	0.78
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	9	0.78	0.01	0.78
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	9	0.78	0.01	0.78
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	9	0.78	0.04	0.78
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	9	0.77	0.12	0.74
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	9	0.77	0.12	0.74
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	9	0.76	0.22	0.66
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	9	0.76	0.22	0.66
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	9	0.75	0.22	0.66
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	9	0.75	0.22	0.66
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	9	0.75	0.36	0.78
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	9	0.75	0.36	0.78
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	9	0.75	0.36	0.78
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	9	0.75	0.36	0.78
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	9	0.75	0.01	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	9	0.75	0.01	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	9	0.75	0.01	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	9	0.75	0.01	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	9	0.75	0.01	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	9	0.75	0.01	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	9	0.75	0.01	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	9	0.75	0.01	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	9	0.75	0.01	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	9	0.75	0.01	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	9	0.75	0.01	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	9	0.75	0.01	0.74
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	9	0.74	0.41	0.75
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	9	0.74	0.41	0.75
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	9	0.74	0.41	0.75
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	9	0.74	0.41	0.75
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	9	0.74	0.05	0.74
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	9	0.74	0.05	0.74
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	9	0.74	0.05	0.74
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	9	0.74	0.05	0.74
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	9	0.74	0.05	0.74
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	9	0.74	0.05	0.74
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	9	0.74	0.05	0.74
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	9	0.74	0.05	0.74
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	9	0.74	0.05	0.74
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	9	0.74	0.87	0.18
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	9	0.74	0.87	0.18

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Key	Atom-1	Atom-2	Models^1	Mean (Å)	SD^1 (Å)	Median (Å)
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	9	0.74	0.87	0.18
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	9	0.74	0.87	0.18
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	9	0.74	0.05	0.73
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	9	0.74	0.05	0.73
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	9	0.74	0.05	0.73
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	9	0.74	0.05	0.73
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	9	0.74	0.05	0.73
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	9	0.74	0.05	0.73
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	9	0.74	0.05	0.73
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	9	0.74	0.05	0.73
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	9	0.74	0.05	0.73
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	9	0.73	0.24	0.8
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	9	0.73	0.24	0.8
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	9	0.72	0.1	0.75
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	9	0.72	0.1	0.75
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	9	0.72	0.1	0.75
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	9	0.72	0.1	0.75
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	9	0.72	0.04	0.72
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	9	0.72	0.04	0.72
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	9	0.72	0.04	0.72
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	9	0.71	0.09	0.71
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	9	0.71	0.09	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	9	0.71	0.04	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	9	0.71	0.04	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	9	0.71	0.04	0.71
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	9	0.71	0.04	0.71
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	9	0.71	0.04	0.71
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	9	0.71	0.04	0.71
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	9	0.71	0.04	0.71
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	9	0.71	0.04	0.71
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	9	0.71	0.04	0.71
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	9	0.71	0.08	0.71
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	9	0.71	0.08	0.71
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	9	0.71	0.04	0.7
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	9	0.71	0.04	0.7
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	9	0.71	0.04	0.7
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	9	0.71	0.04	0.7
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	9	0.71	0.04	0.7
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	9	0.71	0.04	0.7
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	9	0.7	0.05	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	9	0.7	0.05	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	9	0.7	0.05	0.73

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Key	Atom-1	Atom-2	Models^1	Mean (Å)	SD^1 (Å)	Median (Å)
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	9	0.7	0.05	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	9	0.7	0.05	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	9	0.7	0.05	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	9	0.69	0.05	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	9	0.69	0.05	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	9	0.69	0.05	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	9	0.69	0.05	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	9	0.69	0.05	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	9	0.69	0.05	0.73
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	9	0.69	0.01	0.7
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	9	0.69	0.02	0.7
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	9	0.68	0.01	0.68
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	9	0.68	0.01	0.68
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	9	0.68	0.01	0.68
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	9	0.68	0.01	0.68
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	9	0.67	0.76	0.44
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	9	0.67	0.76	0.44
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	9	0.67	0.76	0.44
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	9	0.67	0.76	0.44
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	9	0.67	0.76	0.44
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	9	0.67	0.76	0.44
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	9	0.66	0.13	0.67
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	9	0.66	0.13	0.67
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	9	0.66	0.13	0.67
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	9	0.66	0.13	0.67
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	9	0.66	0.13	0.67
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	9	0.66	0.13	0.67
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	9	0.66	0.28	0.76
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	9	0.66	0.28	0.76
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	9	0.66	0.28	0.76
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	9	0.66	0.28	0.76
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	9	0.64	0.11	0.65
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	9	0.64	0.11	0.65
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	9	0.64	0.11	0.65
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	9	0.64	0.11	0.65
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	9	0.64	0.11	0.65
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	9	0.64	0.11	0.65
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	9	0.64	0.11	0.65
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	9	0.64	0.11	0.65
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	9	0.64	0.11	0.65
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	9	0.64	0.11	0.65
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	9	0.64	0.11	0.65

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	9	0.64	0.11	0.65
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	9	0.64	0.03	0.64
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	9	0.64	0.03	0.64
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	9	0.64	0.03	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	9	0.64	0.03	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	9	0.64	0.03	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	9	0.64	0.03	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	9	0.64	0.03	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	9	0.64	0.03	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	9	0.64	0.03	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	9	0.64	0.03	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	9	0.64	0.03	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	9	0.64	0.03	0.64
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	9	0.63	0.09	0.68
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	9	0.63	0.09	0.68
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	9	0.62	0.28	0.58
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	9	0.62	0.28	0.58
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	9	0.62	0.28	0.58
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	9	0.62	0.28	0.58
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	9	0.6	0.02	0.59
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	9	0.6	0.02	0.59
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	9	0.59	0.3	0.45
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	9	0.59	0.3	0.45
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	9	0.59	0.14	0.57
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	9	0.59	0.14	0.57
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	9	0.59	0.3	0.45
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	9	0.59	0.3	0.45
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	9	0.59	0.14	0.57
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	9	0.59	0.14	0.57
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	9	0.58	0.14	0.68
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	9	0.58	0.14	0.68
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	9	0.58	0.14	0.68
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	9	0.58	0.14	0.68
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	9	0.58	0.08	0.62
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	9	0.58	0.09	0.62
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	9	0.57	0.15	0.65
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	9	0.57	0.15	0.65
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	9	0.57	0.07	0.59
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	9	0.57	0.07	0.59
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	9	0.56	0.07	0.57
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	9	0.56	0.07	0.57
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	9	0.56	0.1	0.52

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Key	Atom-1	Atom-2	Models^1	Mean (Å)	SD^1 (Å)	Median (Å)
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	9	0.56	0.1	0.52
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	9	0.55	0.07	0.56
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	9	0.55	0.07	0.56
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	9	0.55	0.08	0.6
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	9	0.55	0.08	0.6
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	9	0.55	0.08	0.6
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	9	0.55	0.08	0.6
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	9	0.55	0.08	0.6
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	9	0.55	0.08	0.6
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	9	0.54	0.02	0.54
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	9	0.54	0.02	0.54
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	9	0.54	0.02	0.54
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	9	0.54	0.32	0.43
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	9	0.54	0.32	0.42
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	9	0.54	0.01	0.54
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	9	0.54	0.01	0.54
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	9	0.54	0.01	0.54
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	9	0.53	0.11	0.54
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	9	0.53	0.11	0.54
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	9	0.52	0.19	0.6
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	9	0.52	0.19	0.6
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	9	0.52	0.19	0.6
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	9	0.52	0.19	0.6
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	9	0.52	0.08	0.53
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	9	0.52	0.08	0.53
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	9	0.51	0.17	0.58
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	9	0.51	0.17	0.58
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	9	0.51	0.17	0.58
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	9	0.51	0.17	0.58
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	9	0.51	0.17	0.58
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	9	0.51	0.17	0.58
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	9	0.5	0.13	0.5
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	9	0.5	0.13	0.5
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	9	0.5	0.13	0.5
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	9	0.5	0.13	0.5
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	9	0.5	0.13	0.5
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	9	0.5	0.13	0.5
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	9	0.49	0.08	0.49
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	9	0.49	0.08	0.49
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	9	0.49	0.08	0.49
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	9	0.49	0.08	0.49
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	9	0.49	0.01	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	9	0.49	0.01	0.49
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	9	0.48	0.05	0.47
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	9	0.48	0.05	0.47
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	9	0.48	0.08	0.49
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	9	0.48	0.08	0.49
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	9	0.47	0.34	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	9	0.47	0.34	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	9	0.47	0.34	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	9	0.47	0.34	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	9	0.47	0.34	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	9	0.47	0.34	0.38
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	9	0.47	0.34	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	9	0.47	0.34	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	9	0.47	0.34	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	9	0.47	0.34	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	9	0.47	0.34	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	9	0.47	0.34	0.37
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	9	0.47	0.03	0.47
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	9	0.47	0.03	0.46
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	9	0.46	0.08	0.45
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	9	0.46	0.08	0.45
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	9	0.46	0.08	0.47
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	9	0.46	0.08	0.47
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	9	0.46	0.08	0.47
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	9	0.46	0.08	0.47
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	9	0.46	0.08	0.47
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	9	0.46	0.08	0.47
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	9	0.45	0.08	0.46
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	9	0.45	0.08	0.46
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	9	0.45	0.08	0.46
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	9	0.45	0.08	0.46
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	9	0.45	0.08	0.46
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	9	0.45	0.08	0.46
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	9	0.45	0.16	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	9	0.45	0.16	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	9	0.45	0.16	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	9	0.45	0.16	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	9	0.45	0.16	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	9	0.45	0.16	0.55
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	9	0.44	0.16	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	9	0.44	0.16	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	9	0.44	0.16	0.54

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	9	0.44	0.16	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	9	0.44	0.16	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	9	0.44	0.16	0.54
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	9	0.44	0.15	0.47
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	9	0.44	0.15	0.47
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	9	0.44	0.15	0.47
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	9	0.44	0.15	0.47
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	9	0.43	0.01	0.43
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	9	0.43	0.01	0.43
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	9	0.42	0.02	0.42
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	9	0.42	0.02	0.42
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	9	0.42	0.02	0.42
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	9	0.42	0.02	0.42
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	9	0.42	0.02	0.42
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	9	0.42	0.02	0.42
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	9	0.42	0.02	0.42
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	9	0.42	0.02	0.42
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	9	0.42	0.02	0.42
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	9	0.42	0.02	0.42
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	9	0.42	0.02	0.42
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	9	0.42	0.02	0.42
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	9	0.42	0.19	0.43
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	9	0.42	0.19	0.43
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	9	0.42	0.19	0.43
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	9	0.42	0.19	0.44
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	9	0.42	0.19	0.44
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	9	0.42	0.19	0.44
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	9	0.41	0.17	0.45
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	9	0.41	0.16	0.45
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	9	0.41	0.07	0.43
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	9	0.41	0.07	0.43
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	9	0.38	0.07	0.4
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	9	0.38	0.07	0.4
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	9	0.38	0.07	0.4
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	9	0.38	0.07	0.4
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	9	0.38	0.11	0.42
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	9	0.38	0.11	0.42
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	9	0.38	0.05	0.38
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	9	0.38	0.05	0.38
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	9	0.38	0.15	0.4
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	9	0.38	0.11	0.42
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	9	0.38	0.11	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	9	0.38	0.15	0.4
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	9	0.38	0.04	0.38
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	9	0.38	0.04	0.39
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	9	0.38	0.04	0.39
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	9	0.38	0.04	0.39
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	9	0.38	0.04	0.39
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	9	0.38	0.05	0.38
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	9	0.38	0.05	0.38
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	9	0.38	0.05	0.38
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	9	0.38	0.06	0.41
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	9	0.38	0.06	0.41
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	9	0.38	0.06	0.41
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	9	0.36	0.06	0.32
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	9	0.36	0.06	0.32
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	9	0.36	0.06	0.32
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	9	0.36	0.1	0.4
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	9	0.36	0.1	0.4
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	9	0.36	0.09	0.4
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	9	0.36	0.09	0.4
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	9	0.35	0.03	0.35
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	9	0.35	0.03	0.35
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	9	0.35	0.02	0.36
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	9	0.35	0.02	0.36
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	9	0.33	0.06	0.36
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	9	0.33	0.06	0.36
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	9	0.33	0.06	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	9	0.33	0.06	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	9	0.33	0.06	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	9	0.33	0.06	0.36
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	9	0.32	0.04	0.33
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	9	0.32	0.04	0.33
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	9	0.32	0.04	0.33
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	9	0.32	0.04	0.33
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	9	0.32	0.04	0.33
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	9	0.32	0.04	0.33
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	9	0.32	0.02	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	9	0.32	0.02	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	9	0.32	0.02	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	9	0.32	0.02	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	9	0.32	0.02	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	9	0.32	0.02	0.32
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	9	0.32	0.05	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	9	0.31	0.05	0.34
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	9	0.31	0.01	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	9	0.31	0.01	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	9	0.31	0.01	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	9	0.31	0.01	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	9	0.31	0.01	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	9	0.31	0.01	0.31
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	9	0.31	0.03	0.31
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	9	0.31	0.03	0.31
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	9	0.31	0.03	0.31
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	9	0.31	0.03	0.31
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	9	0.3	0.03	0.31
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	9	0.3	0.05	0.32
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	9	0.3	0.03	0.31
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	9	0.3	0.05	0.32
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	9	0.28	0.05	0.3
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	9	0.28	0.05	0.29
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	9	0.27	0.12	0.25
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	9	0.27	0.12	0.25
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	9	0.27	0.12	0.25
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	9	0.27	0.12	0.25
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	9	0.27	0.05	0.27
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	9	0.27	0.05	0.27
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	9	0.26	0.03	0.26
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	9	0.26	0.06	0.23
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	9	0.26	0.06	0.23
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	9	0.26	0.03	0.26
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	9	0.26	0.05	0.23
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	9	0.26	0.05	0.23
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	9	0.26	0.06	0.28
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	9	0.26	0.06	0.28
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	9	0.26	0.03	0.26
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	9	0.26	0.03	0.26
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	9	0.25	0.1	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	9	0.25	0.1	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	9	0.25	0.1	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	9	0.25	0.1	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	9	0.25	0.1	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	9	0.25	0.1	0.2
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	9	0.25	0.03	0.24
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	9	0.25	0.1	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	9	0.25	0.1	0.19

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	9	0.25	0.1	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	9	0.25	0.1	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	9	0.25	0.1	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	9	0.25	0.1	0.19
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	9	0.25	0.03	0.24
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	9	0.24	0.04	0.24
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	9	0.24	0.04	0.24
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	9	0.24	0.04	0.24
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	9	0.24	0.04	0.24
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	9	0.23	0.02	0.23
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	9	0.23	0.02	0.23
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	9	0.22	0.04	0.23
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	9	0.22	0.03	0.23
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	9	0.2	0.01	0.2
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	9	0.2	0.02	0.21
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	9	0.2	0.02	0.2
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	9	0.2	0.02	0.2
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	9	0.2	0.02	0.21
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	9	0.2	0.01	0.2
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	9	0.19	0.04	0.19
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	9	0.19	0.04	0.19
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	9	0.18	0.02	0.19
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	9	0.18	0.02	0.18
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	9	0.18	0.02	0.17
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	9	0.18	0.02	0.18
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	9	0.18	0.02	0.18
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	9	0.18	0.02	0.17
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	9	0.18	0.02	0.18
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	9	0.18	0.02	0.18
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	8	2.28	0.56	2.48
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	8	2.28	0.56	2.48
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	8	1.78	0.47	1.66
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	8	1.78	0.47	1.66
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	8	1.78	0.47	1.66
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	8	1.78	0.47	1.66
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	8	1.77	0.73	1.84
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	8	1.77	0.73	1.84
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	8	1.77	0.73	1.84
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	8	1.77	0.73	1.84
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	8	1.77	0.73	1.84
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	8	1.77	0.73	1.84
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	8	1.74	0.85	1.86

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	8	1.73	0.85	1.85
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	8	1.65	0.74	1.79
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	8	1.65	0.74	1.8
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	8	1.54	0.6	1.61
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	8	1.54	0.6	1.6
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	8	1.34	0.78	1.42
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	8	1.34	0.78	1.42
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	8	1.34	0.78	1.42
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	8	1.34	0.78	1.42
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	8	1.34	0.78	1.42
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	8	1.34	0.78	1.42
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	8	1.26	0.73	1.02
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	8	1.26	0.73	1.02
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	8	1.15	0.31	1.32
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	8	1.15	0.31	1.32
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	8	1.13	0.1	1.09
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	8	1.13	0.1	1.09
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	8	1.13	0.1	1.09
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	8	1.13	0.1	1.09
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	8	1.13	0.1	1.09
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	8	1.13	0.1	1.09
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	8	1.0	0.28	1.04
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	8	1.0	0.28	1.04
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	8	1.0	0.28	1.04
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	8	1.0	0.28	1.04
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	8	1.0	0.28	1.04
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	8	1.0	0.28	1.04
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	8	0.99	0.28	1.03
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	8	0.99	0.28	1.03
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	8	0.99	0.28	1.03
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	8	0.99	0.28	1.03
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	8	0.99	0.28	1.03
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	8	0.99	0.28	1.03
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	8	0.97	0.27	1.1
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	8	0.97	0.27	1.1
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	8	0.97	0.27	1.1
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	8	0.97	0.27	1.1
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	8	0.9	0.08	0.9
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	8	0.9	0.08	0.9
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	8	0.86	0.78	0.65
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	8	0.86	0.78	0.65
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	8	0.83	0.28	0.88

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	8	0.83	0.28	0.88
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	8	0.83	0.43	0.81
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	8	0.83	0.43	0.81
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	8	0.83	0.28	0.88
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	8	0.83	0.28	0.88
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	8	0.82	0.43	0.81
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	8	0.82	0.43	0.81
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	8	0.81	0.62	0.52
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	8	0.81	0.62	0.52
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	8	0.8	0.07	0.82
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	8	0.8	0.07	0.82
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	8	0.79	0.79	0.39
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	8	0.79	0.79	0.39
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	8	0.79	0.79	0.39
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	8	0.79	0.79	0.39
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	8	0.79	0.79	0.39
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	8	0.79	0.79	0.39
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	8	0.76	0.11	0.8
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	8	0.76	0.11	0.8
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	8	0.76	0.11	0.8
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	8	0.76	0.11	0.8
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	8	0.63	0.07	0.65
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	8	0.63	0.07	0.65
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	8	0.63	0.07	0.65
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	8	0.63	0.07	0.65
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	8	0.6	0.18	0.6
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	8	0.6	0.18	0.6
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	8	0.59	0.28	0.48
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	8	0.59	0.28	0.48
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	8	0.59	0.28	0.48
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	8	0.59	0.28	0.48
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	8	0.58	0.39	0.5
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	8	0.58	0.39	0.5
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	8	0.57	0.24	0.62
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	8	0.56	0.24	0.61
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	8	0.56	0.14	0.55
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	8	0.56	0.14	0.55
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	8	0.56	0.14	0.55
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	8	0.56	0.14	0.55
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	8	0.56	0.14	0.55
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	8	0.56	0.14	0.55
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	8	0.52	0.28	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	8	0.52	0.28	0.61
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	8	0.5	0.02	0.5
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	8	0.5	0.02	0.5
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	8	0.5	0.02	0.5
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	8	0.5	0.02	0.5
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	8	0.48	0.14	0.55
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	8	0.48	0.14	0.56
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	8	0.45	0.23	0.4
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	8	0.45	0.23	0.4
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	8	0.43	0.09	0.43
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	8	0.43	0.09	0.43
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	8	0.41	0.09	0.38
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	8	0.41	0.09	0.38
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	8	0.41	0.09	0.38
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	8	0.41	0.09	0.38
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	8	0.41	0.09	0.38
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	8	0.41	0.09	0.38
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	8	0.41	0.16	0.52
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	8	0.41	0.16	0.52
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	8	0.41	0.16	0.52
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	8	0.41	0.16	0.52
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	8	0.41	0.16	0.52
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	8	0.41	0.16	0.52
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	8	0.41	0.16	0.52
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	8	0.41	0.16	0.52
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	8	0.41	0.16	0.52
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	8	0.41	0.16	0.52
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	8	0.41	0.16	0.52
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	8	0.41	0.16	0.52
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	8	0.4	0.19	0.44
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	8	0.4	0.2	0.46
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	8	0.36	0.12	0.39
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	8	0.36	0.12	0.38
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	8	0.35	0.09	0.38
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	8	0.35	0.09	0.38
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	8	0.35	0.06	0.35
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	8	0.35	0.06	0.35
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	8	0.35	0.06	0.35
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	8	0.35	0.06	0.35
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	8	0.35	0.06	0.35
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	8	0.35	0.06	0.35
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	8	0.34	0.05	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	8	0.34	0.05	0.34
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	8	0.34	0.05	0.34
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	8	0.34	0.05	0.34
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	8	0.34	0.05	0.34
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	8	0.34	0.05	0.34
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	8	0.33	0.04	0.32
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	8	0.33	0.04	0.32
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	8	0.3	0.07	0.3
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	8	0.3	0.06	0.3
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	8	0.3	0.11	0.26
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	8	0.3	0.11	0.26
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	8	0.26	0.07	0.29
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	8	0.26	0.07	0.29
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	8	0.26	0.07	0.29
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	8	0.26	0.07	0.29
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	8	0.26	0.03	0.26
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	8	0.26	0.03	0.26
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	8	0.24	0.07	0.29
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	8	0.24	0.07	0.29
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	8	0.22	0.07	0.21
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	8	0.22	0.07	0.21
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	8	0.22	0.07	0.21
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	8	0.22	0.07	0.21
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	8	0.22	0.07	0.2
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	8	0.22	0.07	0.2
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	8	0.22	0.07	0.2
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	8	0.22	0.07	0.2
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	8	0.21	0.09	0.18
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	8	0.21	0.09	0.18
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	8	0.2	0.05	0.18
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	8	0.2	0.05	0.18
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	8	0.14	0.01	0.14
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	8	0.14	0.01	0.14
(1,1189)	1:B:97:VAL:HB	1:B:94:LEU:HA	7	2.69	0.07	2.69
(1,322)	1:A:97:VAL:HB	1:A:94:LEU:HA	7	2.69	0.07	2.69
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD1	7	2.31	0.73	2.42
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD2	7	2.31	0.73	2.42
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD1	7	2.31	0.73	2.42
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD2	7	2.31	0.73	2.42
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD1	7	2.31	0.73	2.42
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD2	7	2.31	0.73	2.42
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD1	7	2.31	0.73	2.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD2	7	2.31	0.73	2.41
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD1	7	2.31	0.73	2.41
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD2	7	2.31	0.73	2.41
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD1	7	2.31	0.73	2.41
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD2	7	2.31	0.73	2.41
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB2	7	1.43	0.36	1.57
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB3	7	1.43	0.36	1.57
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB2	7	1.43	0.36	1.57
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB3	7	1.43	0.36	1.57
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB2	7	1.43	0.36	1.57
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB3	7	1.43	0.36	1.57
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB2	7	1.43	0.36	1.57
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB3	7	1.43	0.36	1.57
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB2	7	1.43	0.36	1.57
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB3	7	1.43	0.36	1.57
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB2	7	1.43	0.36	1.57
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB3	7	1.43	0.36	1.57
(1,1762)	1:A:122:TYR:HB2	1:B:111:HIS:H	7	1.35	0.89	0.77
(1,1762)	1:A:122:TYR:HB3	1:B:111:HIS:H	7	1.35	0.89	0.77
(1,99)	1:A:77:VAL:HG21	1:A:78:ASN:HB2	7	1.19	0.08	1.23
(1,99)	1:A:77:VAL:HG22	1:A:78:ASN:HB2	7	1.19	0.08	1.23
(1,99)	1:A:77:VAL:HG23	1:A:78:ASN:HB2	7	1.19	0.08	1.23
(1,966)	1:B:77:VAL:HG21	1:B:78:ASN:HB2	7	1.19	0.08	1.23
(1,966)	1:B:77:VAL:HG22	1:B:78:ASN:HB2	7	1.19	0.08	1.23
(1,966)	1:B:77:VAL:HG23	1:B:78:ASN:HB2	7	1.19	0.08	1.23
(1,119)	1:A:77:VAL:HB	1:A:146:ASP:HB3	7	1.19	0.98	0.56
(1,986)	1:B:77:VAL:HB	1:B:146:ASP:HB3	7	1.19	0.98	0.56
(1,109)	1:A:77:VAL:HG21	1:A:79:LEU:H	7	1.15	0.36	1.16
(1,109)	1:A:77:VAL:HG22	1:A:79:LEU:H	7	1.15	0.36	1.16
(1,109)	1:A:77:VAL:HG23	1:A:79:LEU:H	7	1.15	0.36	1.16
(1,976)	1:B:77:VAL:HG21	1:B:79:LEU:H	7	1.15	0.36	1.16
(1,976)	1:B:77:VAL:HG22	1:B:79:LEU:H	7	1.15	0.36	1.16
(1,976)	1:B:77:VAL:HG23	1:B:79:LEU:H	7	1.15	0.36	1.16
(1,516)	1:A:114:ILE:H	1:A:114:ILE:HG12	7	1.11	0.23	1.15
(1,1383)	1:B:114:ILE:H	1:B:114:ILE:HG12	7	1.11	0.23	1.16
(1,507)	1:A:114:ILE:HD11	1:A:107:ARG:HD3	7	1.1	0.07	1.11
(1,507)	1:A:114:ILE:HD12	1:A:107:ARG:HD3	7	1.1	0.07	1.11
(1,507)	1:A:114:ILE:HD13	1:A:107:ARG:HD3	7	1.1	0.07	1.11
(1,1374)	1:B:114:ILE:HD11	1:B:107:ARG:HD3	7	1.1	0.08	1.11
(1,1374)	1:B:114:ILE:HD12	1:B:107:ARG:HD3	7	1.1	0.08	1.11
(1,1374)	1:B:114:ILE:HD13	1:B:107:ARG:HD3	7	1.1	0.08	1.11
(1,170)	1:A:83:HIS:H	1:A:81:VAL:HB	7	1.01	0.43	1.09

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE1	7	1.01	0.48	0.99
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE2	7	1.01	0.48	0.99
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE1	7	1.01	0.48	0.99
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE2	7	1.01	0.48	0.99
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE1	7	1.01	0.48	0.99
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE2	7	1.01	0.48	0.99
(1,1037)	1:B:83:HIS:H	1:B:81:VAL:HB	7	1.01	0.43	1.09
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE1	7	1.0	0.48	0.99
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE2	7	1.0	0.48	0.99
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE1	7	1.0	0.48	0.99
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE2	7	1.0	0.48	0.99
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE1	7	1.0	0.48	0.99
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE2	7	1.0	0.48	0.99
(1,734)	1:A:135:SER:H	1:A:134:THR:HB	7	0.95	0.15	0.88
(1,1601)	1:B:135:SER:H	1:B:134:THR:HB	7	0.95	0.15	0.88
(1,568)	1:A:119:HIS:HB3	1:A:101:HIS:HA	7	0.9	0.24	0.95
(1,1435)	1:B:119:HIS:HB3	1:B:101:HIS:HA	7	0.89	0.24	0.95
(1,236)	1:A:89:LEU:HD21	1:A:85:SER:HB3	7	0.88	0.33	0.97
(1,236)	1:A:89:LEU:HD22	1:A:85:SER:HB3	7	0.88	0.33	0.97
(1,236)	1:A:89:LEU:HD23	1:A:85:SER:HB3	7	0.88	0.33	0.97
(1,1103)	1:B:89:LEU:HD21	1:B:85:SER:HB3	7	0.88	0.34	0.97
(1,1103)	1:B:89:LEU:HD22	1:B:85:SER:HB3	7	0.88	0.34	0.97
(1,1103)	1:B:89:LEU:HD23	1:B:85:SER:HB3	7	0.88	0.34	0.97
(1,1750)	1:A:115:SER:HB2	1:B:119:HIS:HE1	7	0.81	0.3	0.85
(1,550)	1:A:118:PHE:HE1	1:A:102:GLY:H	7	0.71	0.32	0.69
(1,550)	1:A:118:PHE:HE2	1:A:102:GLY:H	7	0.71	0.32	0.69
(1,1417)	1:B:118:PHE:HE1	1:B:102:GLY:H	7	0.71	0.32	0.69
(1,1417)	1:B:118:PHE:HE2	1:B:102:GLY:H	7	0.71	0.32	0.69
(1,143)	1:A:79:LEU:HG	1:A:80:ASP:H	7	0.7	0.05	0.7
(1,1010)	1:B:79:LEU:HG	1:B:80:ASP:H	7	0.7	0.05	0.7
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG21	7	0.66	0.29	0.76
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG22	7	0.66	0.29	0.76
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG23	7	0.66	0.29	0.76
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG21	7	0.66	0.29	0.75
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG22	7	0.66	0.29	0.75
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG23	7	0.66	0.29	0.75
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG11	7	0.66	0.03	0.66
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG12	7	0.66	0.03	0.66
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG13	7	0.66	0.03	0.66
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG11	7	0.66	0.03	0.66
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG12	7	0.66	0.03	0.66
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG13	7	0.66	0.03	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG11	7	0.66	0.02	0.66
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG12	7	0.66	0.02	0.66
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG13	7	0.66	0.02	0.66
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG11	7	0.66	0.02	0.66
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG12	7	0.66	0.02	0.66
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG13	7	0.66	0.02	0.66
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG11	7	0.65	0.39	0.55
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG12	7	0.65	0.39	0.55
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG13	7	0.65	0.39	0.55
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG11	7	0.65	0.39	0.55
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG12	7	0.65	0.39	0.55
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG13	7	0.65	0.39	0.55
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG11	7	0.65	0.39	0.55
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG12	7	0.65	0.39	0.55
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG13	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG11	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG12	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG13	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG11	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG12	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG13	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG11	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG12	7	0.65	0.39	0.55
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG13	7	0.65	0.39	0.55
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG2	7	0.64	0.2	0.57
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG3	7	0.64	0.2	0.57
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG2	7	0.63	0.2	0.57
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG3	7	0.63	0.2	0.57
(1,195)	1:A:84:PHE:HD1	1:A:84:PHE:H	7	0.62	0.46	0.49
(1,195)	1:A:84:PHE:HD2	1:A:84:PHE:H	7	0.62	0.46	0.49
(1,1062)	1:B:84:PHE:HD1	1:B:84:PHE:H	7	0.62	0.46	0.49
(1,1062)	1:B:84:PHE:HD2	1:B:84:PHE:H	7	0.62	0.46	0.49
(1,97)	1:A:77:VAL:HG21	1:A:77:VAL:H	7	0.56	0.28	0.53
(1,97)	1:A:77:VAL:HG22	1:A:77:VAL:H	7	0.56	0.28	0.53
(1,97)	1:A:77:VAL:HG23	1:A:77:VAL:H	7	0.56	0.28	0.53
(1,964)	1:B:77:VAL:HG21	1:B:77:VAL:H	7	0.56	0.28	0.53
(1,964)	1:B:77:VAL:HG22	1:B:77:VAL:H	7	0.56	0.28	0.53
(1,964)	1:B:77:VAL:HG23	1:B:77:VAL:H	7	0.56	0.28	0.53
(1,1024)	1:B:81:VAL:HG21	1:B:81:VAL:H	7	0.55	0.18	0.57
(1,1024)	1:B:81:VAL:HG22	1:B:81:VAL:H	7	0.55	0.18	0.57
(1,1024)	1:B:81:VAL:HG23	1:B:81:VAL:H	7	0.55	0.18	0.57
(1,157)	1:A:81:VAL:HG21	1:A:81:VAL:H	7	0.55	0.18	0.57

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,157)	1:A:81:VAL:HG22	1:A:81:VAL:H	7	0.55	0.18	0.57
(1,157)	1:A:81:VAL:HG23	1:A:81:VAL:H	7	0.55	0.18	0.57
(1,1063)	1:B:84:PHE:HB2	1:B:84:PHE:H	7	0.52	0.09	0.57
(1,1063)	1:B:84:PHE:HB3	1:B:84:PHE:H	7	0.52	0.09	0.57
(1,1065)	1:B:84:PHE:HB2	1:B:84:PHE:H	7	0.52	0.09	0.57
(1,1065)	1:B:84:PHE:HB3	1:B:84:PHE:H	7	0.52	0.09	0.57
(1,196)	1:A:84:PHE:HB2	1:A:84:PHE:H	7	0.51	0.1	0.57
(1,196)	1:A:84:PHE:HB3	1:A:84:PHE:H	7	0.51	0.1	0.57
(1,198)	1:A:84:PHE:HB2	1:A:84:PHE:H	7	0.51	0.1	0.57
(1,198)	1:A:84:PHE:HB3	1:A:84:PHE:H	7	0.51	0.1	0.57
(1,432)	1:A:107:ARG:HG2	1:A:108:GLN:H	7	0.51	0.11	0.53
(1,432)	1:A:107:ARG:HG3	1:A:108:GLN:H	7	0.51	0.11	0.53
(1,1299)	1:B:107:ARG:HG2	1:B:108:GLN:H	7	0.51	0.11	0.53
(1,1299)	1:B:107:ARG:HG3	1:B:108:GLN:H	7	0.51	0.11	0.53
(1,260)	1:A:89:LEU:HD21	1:A:103:LYS:H	7	0.49	0.4	0.19
(1,260)	1:A:89:LEU:HD22	1:A:103:LYS:H	7	0.49	0.4	0.19
(1,260)	1:A:89:LEU:HD23	1:A:103:LYS:H	7	0.49	0.4	0.19
(1,1127)	1:B:89:LEU:HD21	1:B:103:LYS:H	7	0.48	0.4	0.19
(1,1127)	1:B:89:LEU:HD22	1:B:103:LYS:H	7	0.48	0.4	0.19
(1,1127)	1:B:89:LEU:HD23	1:B:103:LYS:H	7	0.48	0.4	0.19
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB2	7	0.47	0.07	0.46
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB3	7	0.47	0.07	0.46
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB2	7	0.47	0.07	0.46
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB3	7	0.47	0.07	0.46
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB2	7	0.46	0.35	0.34
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB3	7	0.46	0.35	0.34
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB2	7	0.46	0.35	0.34
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB3	7	0.46	0.35	0.34
(1,345)	1:A:98:ILE:H	1:A:122:TYR:H	7	0.45	0.24	0.46
(1,346)	1:A:98:ILE:H	1:A:122:TYR:H	7	0.45	0.24	0.46
(1,1212)	1:B:98:ILE:H	1:B:122:TYR:H	7	0.45	0.24	0.46
(1,1213)	1:B:98:ILE:H	1:B:122:TYR:H	7	0.45	0.24	0.46
(1,1385)	1:B:114:ILE:HG21	1:B:114:ILE:H	7	0.44	0.2	0.34
(1,1385)	1:B:114:ILE:HG22	1:B:114:ILE:H	7	0.44	0.2	0.34
(1,1385)	1:B:114:ILE:HG23	1:B:114:ILE:H	7	0.44	0.2	0.34
(1,518)	1:A:114:ILE:HG21	1:A:114:ILE:H	7	0.44	0.21	0.34
(1,518)	1:A:114:ILE:HG22	1:A:114:ILE:H	7	0.44	0.21	0.34
(1,518)	1:A:114:ILE:HG23	1:A:114:ILE:H	7	0.44	0.21	0.34
(1,811)	1:A:145:VAL:HB	1:A:77:VAL:HB	7	0.44	0.16	0.4
(1,1678)	1:B:145:VAL:HB	1:B:77:VAL:HB	7	0.44	0.17	0.4
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD11	7	0.43	0.1	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD12	7	0.43	0.1	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD13	7	0.43	0.1	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD21	7	0.43	0.1	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD22	7	0.43	0.1	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD23	7	0.43	0.1	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD11	7	0.43	0.1	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD12	7	0.43	0.1	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD13	7	0.43	0.1	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD21	7	0.43	0.1	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD22	7	0.43	0.1	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD23	7	0.43	0.1	0.44
(1,955)	1:B:77:VAL:HG11	1:B:76:SER:HA	7	0.41	0.03	0.41
(1,955)	1:B:77:VAL:HG12	1:B:76:SER:HA	7	0.41	0.03	0.41
(1,955)	1:B:77:VAL:HG13	1:B:76:SER:HA	7	0.41	0.03	0.41
(1,88)	1:A:77:VAL:HG11	1:A:76:SER:HA	7	0.4	0.03	0.41
(1,88)	1:A:77:VAL:HG12	1:A:76:SER:HA	7	0.4	0.03	0.41
(1,88)	1:A:77:VAL:HG13	1:A:76:SER:HA	7	0.4	0.03	0.41
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG2	7	0.39	0.15	0.37
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG3	7	0.39	0.15	0.37
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG2	7	0.39	0.16	0.36
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG3	7	0.39	0.16	0.36
(1,267)	1:A:90:LYS:HB2	1:A:101:HIS:HB3	7	0.39	0.33	0.27
(1,267)	1:A:90:LYS:HB3	1:A:101:HIS:HB3	7	0.39	0.33	0.27
(1,1134)	1:B:90:LYS:HB2	1:B:101:HIS:HB3	7	0.39	0.33	0.27
(1,1134)	1:B:90:LYS:HB3	1:B:101:HIS:HB3	7	0.39	0.33	0.27
(1,700)	1:A:132:THR:HG21	1:A:132:THR:H	7	0.36	0.2	0.43
(1,700)	1:A:132:THR:HG22	1:A:132:THR:H	7	0.36	0.2	0.43
(1,700)	1:A:132:THR:HG23	1:A:132:THR:H	7	0.36	0.2	0.43
(1,1436)	1:B:119:HIS:HA	1:B:101:HIS:HA	7	0.35	0.16	0.37
(1,569)	1:A:119:HIS:HA	1:A:101:HIS:HA	7	0.35	0.16	0.37
(1,468)	1:A:111:HIS:H	1:A:112:GLY:H	7	0.34	0.13	0.38
(1,1335)	1:B:111:HIS:H	1:B:112:GLY:H	7	0.34	0.13	0.38
(1,289)	1:A:94:LEU:H	1:A:93:VAL:HB	7	0.28	0.06	0.26
(1,1156)	1:B:94:LEU:H	1:B:93:VAL:HB	7	0.28	0.05	0.26
(1,469)	1:A:111:HIS:HB2	1:A:112:GLY:H	7	0.28	0.09	0.26
(1,1336)	1:B:111:HIS:HB2	1:B:112:GLY:H	7	0.28	0.09	0.26
(1,225)	1:A:87:GLU:H	1:A:88:GLU:H	7	0.27	0.1	0.22
(1,228)	1:A:87:GLU:H	1:A:88:GLU:H	7	0.27	0.1	0.22
(1,1092)	1:B:87:GLU:H	1:B:88:GLU:H	7	0.27	0.1	0.22
(1,1095)	1:B:87:GLU:H	1:B:88:GLU:H	7	0.27	0.1	0.22
(1,827)	1:A:146:ASP:HB3	1:A:76:SER:HA	7	0.27	0.07	0.27
(1,1694)	1:B:146:ASP:HB3	1:B:76:SER:HA	7	0.27	0.07	0.27
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB2	7	0.26	0.08	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB3	7	0.26	0.08	0.24
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB2	7	0.26	0.07	0.24
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB3	7	0.26	0.07	0.24
(1,138)	1:A:79:LEU:HD11	1:A:79:LEU:HA	7	0.26	0.04	0.26
(1,138)	1:A:79:LEU:HD12	1:A:79:LEU:HA	7	0.26	0.04	0.26
(1,138)	1:A:79:LEU:HD13	1:A:79:LEU:HA	7	0.26	0.04	0.26
(1,138)	1:A:79:LEU:HD21	1:A:79:LEU:HA	7	0.26	0.04	0.26
(1,138)	1:A:79:LEU:HD22	1:A:79:LEU:HA	7	0.26	0.04	0.26
(1,138)	1:A:79:LEU:HD23	1:A:79:LEU:HA	7	0.26	0.04	0.26
(1,1005)	1:B:79:LEU:HD11	1:B:79:LEU:HA	7	0.26	0.04	0.26
(1,1005)	1:B:79:LEU:HD12	1:B:79:LEU:HA	7	0.26	0.04	0.26
(1,1005)	1:B:79:LEU:HD13	1:B:79:LEU:HA	7	0.26	0.04	0.26
(1,1005)	1:B:79:LEU:HD21	1:B:79:LEU:HA	7	0.26	0.04	0.26
(1,1005)	1:B:79:LEU:HD22	1:B:79:LEU:HA	7	0.26	0.04	0.26
(1,1005)	1:B:79:LEU:HD23	1:B:79:LEU:HA	7	0.26	0.04	0.26
(1,817)	1:A:145:VAL:HB	1:A:145:VAL:H	7	0.24	0.05	0.23
(1,1684)	1:B:145:VAL:HB	1:B:145:VAL:H	7	0.24	0.06	0.23
(1,369)	1:A:101:HIS:H	1:A:100:VAL:HA	7	0.23	0.06	0.24
(1,1236)	1:B:101:HIS:H	1:B:100:VAL:HA	7	0.23	0.06	0.24
(1,67)	1:A:76:SER:HB2	1:A:146:ASP:HB2	7	0.23	0.05	0.25
(1,70)	1:A:76:SER:HB2	1:A:146:ASP:HB2	7	0.23	0.05	0.25
(1,73)	1:A:76:SER:HB2	1:A:146:ASP:HB2	7	0.23	0.05	0.25
(1,934)	1:B:76:SER:HB2	1:B:146:ASP:HB2	7	0.23	0.05	0.25
(1,937)	1:B:76:SER:HB2	1:B:146:ASP:HB2	7	0.23	0.05	0.25
(1,940)	1:B:76:SER:HB2	1:B:146:ASP:HB2	7	0.23	0.05	0.25
(1,74)	1:A:76:SER:HA	1:A:146:ASP:HA	7	0.23	0.07	0.21
(1,78)	1:A:76:SER:HA	1:A:146:ASP:HA	7	0.23	0.07	0.21
(1,749)	1:A:136:SER:HA	1:A:137:LEU:H	7	0.23	0.05	0.25
(1,941)	1:B:76:SER:HA	1:B:146:ASP:HA	7	0.23	0.07	0.21
(1,945)	1:B:76:SER:HA	1:B:146:ASP:HA	7	0.23	0.07	0.21
(1,1616)	1:B:136:SER:HA	1:B:137:LEU:H	7	0.23	0.05	0.25
(1,411)	1:A:105:GLU:HB2	1:A:105:GLU:H	7	0.21	0.06	0.21
(1,411)	1:A:105:GLU:HB3	1:A:105:GLU:H	7	0.21	0.06	0.21
(1,1278)	1:B:105:GLU:HB2	1:B:105:GLU:H	7	0.21	0.06	0.2
(1,1278)	1:B:105:GLU:HB3	1:B:105:GLU:H	7	0.21	0.06	0.2
(1,28)	1:A:72:LYS:H	1:A:72:LYS:HA	7	0.2	0.05	0.18
(1,895)	1:B:72:LYS:H	1:B:72:LYS:HA	7	0.2	0.05	0.18
(1,103)	1:A:77:VAL:H	1:A:78:ASN:H	7	0.17	0.05	0.16
(1,970)	1:B:77:VAL:H	1:B:78:ASN:H	7	0.17	0.05	0.16
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD2	7	0.16	0.02	0.17
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD3	7	0.16	0.02	0.17
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD2	7	0.16	0.02	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD3	7	0.16	0.02	0.17
(1,847)	1:A:147:GLY:HA2	1:A:147:GLY:H	7	0.16	0.05	0.13
(1,1714)	1:B:147:GLY:HA2	1:B:147:GLY:H	7	0.16	0.05	0.13
(1,896)	1:B:72:LYS:HB2	1:B:72:LYS:H	7	0.16	0.02	0.16
(1,896)	1:B:72:LYS:HB3	1:B:72:LYS:H	7	0.16	0.02	0.16
(1,29)	1:A:72:LYS:HB2	1:A:72:LYS:H	7	0.16	0.02	0.15
(1,29)	1:A:72:LYS:HB3	1:A:72:LYS:H	7	0.16	0.02	0.15
(1,335)	1:A:98:ILE:H	1:A:97:VAL:H	7	0.16	0.06	0.14
(1,1202)	1:B:98:ILE:H	1:B:97:VAL:H	7	0.16	0.06	0.14
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB2	7	0.13	0.01	0.14
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB3	7	0.13	0.01	0.14
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB2	7	0.13	0.01	0.14
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB3	7	0.13	0.01	0.14
(1,325)	1:A:97:VAL:HB	1:A:97:VAL:HA	7	0.13	0.02	0.13
(1,326)	1:A:97:VAL:HB	1:A:97:VAL:HA	7	0.13	0.02	0.13
(1,1192)	1:B:97:VAL:HB	1:B:97:VAL:HA	7	0.13	0.01	0.13
(1,1193)	1:B:97:VAL:HB	1:B:97:VAL:HA	7	0.13	0.01	0.13
(1,1018)	1:B:81:VAL:HG11	1:B:79:LEU:HG	6	2.03	1.32	2.06
(1,1018)	1:B:81:VAL:HG12	1:B:79:LEU:HG	6	2.03	1.32	2.06
(1,1018)	1:B:81:VAL:HG13	1:B:79:LEU:HG	6	2.03	1.32	2.06
(1,151)	1:A:81:VAL:HG11	1:A:79:LEU:HG	6	2.03	1.32	2.06
(1,151)	1:A:81:VAL:HG12	1:A:79:LEU:HG	6	2.03	1.32	2.06
(1,151)	1:A:81:VAL:HG13	1:A:79:LEU:HG	6	2.03	1.32	2.06
(1,257)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	6	1.12	0.47	1.28
(1,257)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	6	1.12	0.47	1.28
(1,257)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	6	1.12	0.47	1.28
(1,1124)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	6	1.12	0.47	1.28
(1,1124)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	6	1.12	0.47	1.28
(1,1124)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	6	1.12	0.47	1.28
(1,1264)	1:B:103:LYS:HG2	1:B:116:ARG:H	6	1.1	0.32	1.06
(1,1264)	1:B:103:LYS:HG3	1:B:116:ARG:H	6	1.1	0.32	1.06
(1,397)	1:A:103:LYS:HG2	1:A:116:ARG:H	6	1.1	0.32	1.06
(1,397)	1:A:103:LYS:HG3	1:A:116:ARG:H	6	1.1	0.32	1.06
(1,82)	1:A:77:VAL:HG21	1:A:68:MET:HA	6	1.09	0.15	1.15
(1,82)	1:A:77:VAL:HG22	1:A:68:MET:HA	6	1.09	0.15	1.15
(1,82)	1:A:77:VAL:HG23	1:A:68:MET:HA	6	1.09	0.15	1.15
(1,949)	1:B:77:VAL:HG21	1:B:68:MET:HA	6	1.09	0.15	1.14
(1,949)	1:B:77:VAL:HG22	1:B:68:MET:HA	6	1.09	0.15	1.14
(1,949)	1:B:77:VAL:HG23	1:B:68:MET:HA	6	1.09	0.15	1.14
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE1	6	0.95	0.49	0.92
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE2	6	0.95	0.49	0.92
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE1	6	0.95	0.49	0.92

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE2	6	0.95	0.49	0.92
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE1	6	0.95	0.49	0.92
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE2	6	0.95	0.49	0.92
(1,365)	1:A:100:VAL:HG11	1:A:102:GLY:H	6	0.95	0.25	1.04
(1,365)	1:A:100:VAL:HG12	1:A:102:GLY:H	6	0.95	0.25	1.04
(1,365)	1:A:100:VAL:HG13	1:A:102:GLY:H	6	0.95	0.25	1.04
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE1	6	0.95	0.49	0.92
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE2	6	0.95	0.49	0.92
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE1	6	0.95	0.49	0.92
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE2	6	0.95	0.49	0.92
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE1	6	0.95	0.49	0.92
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE2	6	0.95	0.49	0.92
(1,1232)	1:B:100:VAL:HG11	1:B:102:GLY:H	6	0.95	0.25	1.04
(1,1232)	1:B:100:VAL:HG12	1:B:102:GLY:H	6	0.95	0.25	1.04
(1,1232)	1:B:100:VAL:HG13	1:B:102:GLY:H	6	0.95	0.25	1.04
(1,563)	1:A:118:PHE:HB2	1:A:118:PHE:H	6	0.93	0.27	1.04
(1,1430)	1:B:118:PHE:HB2	1:B:118:PHE:H	6	0.93	0.27	1.04
(1,953)	1:B:77:VAL:HG21	1:B:75:PHE:HZ	6	0.92	0.2	0.93
(1,953)	1:B:77:VAL:HG22	1:B:75:PHE:HZ	6	0.92	0.2	0.93
(1,953)	1:B:77:VAL:HG23	1:B:75:PHE:HZ	6	0.92	0.2	0.93
(1,1472)	1:B:123:ARG:HD2	1:B:98:ILE:H	6	0.9	0.34	0.88
(1,1472)	1:B:123:ARG:HD3	1:B:98:ILE:H	6	0.9	0.34	0.88
(1,605)	1:A:123:ARG:HD2	1:A:98:ILE:H	6	0.9	0.34	0.88
(1,605)	1:A:123:ARG:HD3	1:A:98:ILE:H	6	0.9	0.34	0.88
(1,511)	1:A:114:ILE:HG21	1:A:112:GLY:H	6	0.88	0.6	0.68
(1,511)	1:A:114:ILE:HG22	1:A:112:GLY:H	6	0.88	0.6	0.68
(1,511)	1:A:114:ILE:HG23	1:A:112:GLY:H	6	0.88	0.6	0.68
(1,1378)	1:B:114:ILE:HG21	1:B:112:GLY:H	6	0.88	0.6	0.68
(1,1378)	1:B:114:ILE:HG22	1:B:112:GLY:H	6	0.88	0.6	0.68
(1,1378)	1:B:114:ILE:HG23	1:B:112:GLY:H	6	0.88	0.6	0.68
(1,86)	1:A:77:VAL:HG21	1:A:75:PHE:HZ	6	0.83	0.12	0.9
(1,86)	1:A:77:VAL:HG22	1:A:75:PHE:HZ	6	0.83	0.12	0.9
(1,86)	1:A:77:VAL:HG23	1:A:75:PHE:HZ	6	0.83	0.12	0.9
(1,246)	1:A:89:LEU:H	1:A:89:LEU:HG	6	0.82	0.16	0.86
(1,1113)	1:B:89:LEU:H	1:B:89:LEU:HG	6	0.82	0.16	0.86
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD1	6	0.78	0.33	0.74
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD2	6	0.78	0.33	0.74
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD1	6	0.78	0.33	0.74
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD2	6	0.78	0.33	0.74
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD1	6	0.78	0.33	0.74
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD2	6	0.78	0.33	0.74
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD1	6	0.78	0.33	0.74

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD2	6	0.78	0.33	0.74
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD1	6	0.78	0.33	0.74
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD2	6	0.78	0.33	0.74
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD1	6	0.78	0.33	0.74
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD2	6	0.78	0.33	0.74
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD21	6	0.74	0.37	0.56
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD22	6	0.74	0.37	0.56
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD23	6	0.74	0.37	0.56
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD21	6	0.74	0.37	0.56
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD22	6	0.74	0.37	0.56
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD23	6	0.74	0.37	0.56
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD21	6	0.74	0.37	0.56
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD22	6	0.74	0.37	0.56
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD23	6	0.74	0.37	0.56
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD21	6	0.74	0.37	0.56
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD22	6	0.74	0.37	0.56
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD23	6	0.74	0.37	0.56
(1,203)	1:A:84:PHE:HE1	1:A:116:ARG:H	6	0.69	0.61	0.36
(1,203)	1:A:84:PHE:HE2	1:A:116:ARG:H	6	0.69	0.61	0.36
(1,1070)	1:B:84:PHE:HE1	1:B:116:ARG:H	6	0.69	0.6	0.36
(1,1070)	1:B:84:PHE:HE2	1:B:116:ARG:H	6	0.69	0.6	0.36
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE1	6	0.68	0.32	0.62
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE2	6	0.68	0.32	0.62
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE1	6	0.68	0.32	0.62
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE2	6	0.68	0.32	0.62
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE1	6	0.68	0.32	0.62
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE2	6	0.68	0.32	0.62
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE1	6	0.68	0.32	0.62
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE2	6	0.68	0.32	0.62
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE1	6	0.68	0.32	0.62
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE2	6	0.68	0.32	0.62
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE1	6	0.68	0.32	0.62
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE2	6	0.68	0.32	0.62
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE1	6	0.67	0.25	0.66
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE2	6	0.67	0.25	0.66
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE1	6	0.67	0.25	0.66
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE2	6	0.67	0.25	0.66
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE1	6	0.67	0.25	0.66
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE2	6	0.67	0.25	0.66
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD11	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD12	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD13	6	0.66	0.49	0.44

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Key	Atom-1	Atom-2	Models^1	Mean (Å)	SD^1 (Å)	Median (Å)
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD21	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD22	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD23	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD11	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD12	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD13	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD21	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD22	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD23	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD11	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD12	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD13	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD21	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD22	6	0.66	0.49	0.44
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD23	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD11	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD12	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD13	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD21	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD22	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD23	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD11	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD12	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD13	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD21	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD22	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD23	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD11	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD12	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD13	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD21	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD22	6	0.66	0.49	0.44
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD23	6	0.66	0.49	0.44
(1,831)	1:A:146:ASP:HB2	1:A:145:VAL:HA	6	0.63	0.07	0.64
(1,1698)	1:B:146:ASP:HB2	1:B:145:VAL:HA	6	0.63	0.07	0.64
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG2	6	0.61	0.18	0.68
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG3	6	0.61	0.18	0.68
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG2	6	0.61	0.18	0.68
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG3	6	0.61	0.18	0.68
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG2	6	0.61	0.18	0.68
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG3	6	0.61	0.18	0.68
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG2	6	0.61	0.18	0.68

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG3	6	0.61	0.18	0.68
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG2	6	0.6	0.31	0.43
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG3	6	0.6	0.31	0.43
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG2	6	0.6	0.31	0.43
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG3	6	0.6	0.31	0.43
(1,1482)	1:B:124:ILE:HB	1:B:97:VAL:HA	6	0.57	0.41	0.47
(1,615)	1:A:124:ILE:HB	1:A:97:VAL:HA	6	0.57	0.4	0.47
(1,543)	1:A:117:GLU:HA	1:A:103:LYS:HA	6	0.56	0.17	0.5
(1,544)	1:A:117:GLU:HA	1:A:103:LYS:HA	6	0.56	0.17	0.5
(1,1410)	1:B:117:GLU:HA	1:B:103:LYS:HA	6	0.56	0.17	0.5
(1,1411)	1:B:117:GLU:HA	1:B:103:LYS:HA	6	0.56	0.17	0.5
(1,579)	1:A:119:HIS:H	1:A:120:ARG:H	6	0.54	0.17	0.52
(1,1446)	1:B:119:HIS:H	1:B:120:ARG:H	6	0.54	0.17	0.52
(1,158)	1:A:81:VAL:H	1:A:81:VAL:HB	6	0.48	0.05	0.46
(1,1025)	1:B:81:VAL:H	1:B:81:VAL:HB	6	0.48	0.05	0.46
(1,212)	1:A:85:SER:HB2	1:A:88:GLU:H	6	0.47	0.13	0.4
(1,1079)	1:B:85:SER:HB2	1:B:88:GLU:H	6	0.47	0.13	0.4
(1,108)	1:A:77:VAL:HG11	1:A:79:LEU:H	6	0.43	0.23	0.32
(1,108)	1:A:77:VAL:HG12	1:A:79:LEU:H	6	0.43	0.23	0.32
(1,108)	1:A:77:VAL:HG13	1:A:79:LEU:H	6	0.43	0.23	0.32
(1,975)	1:B:77:VAL:HG11	1:B:79:LEU:H	6	0.43	0.23	0.32
(1,975)	1:B:77:VAL:HG12	1:B:79:LEU:H	6	0.43	0.23	0.32
(1,975)	1:B:77:VAL:HG13	1:B:79:LEU:H	6	0.43	0.23	0.32
(1,1567)	1:B:132:THR:HG21	1:B:132:THR:H	6	0.4	0.18	0.45
(1,1567)	1:B:132:THR:HG22	1:B:132:THR:H	6	0.4	0.18	0.45
(1,1567)	1:B:132:THR:HG23	1:B:132:THR:H	6	0.4	0.18	0.45
(1,574)	1:A:119:HIS:HB3	1:A:119:HIS:HD2	6	0.39	0.04	0.39
(1,1441)	1:B:119:HIS:HB3	1:B:119:HIS:HD2	6	0.38	0.05	0.4
(1,470)	1:A:111:HIS:HA	1:A:112:GLY:H	6	0.36	0.1	0.36
(1,1337)	1:B:111:HIS:HA	1:B:112:GLY:H	6	0.36	0.1	0.36
(1,281)	1:A:92:LYS:H	1:A:101:HIS:H	6	0.35	0.11	0.3
(1,1148)	1:B:92:LYS:H	1:B:101:HIS:H	6	0.35	0.11	0.3
(1,56)	1:A:75:PHE:HD1	1:A:148:PRO:HA	6	0.35	0.22	0.3
(1,56)	1:A:75:PHE:HD2	1:A:148:PRO:HA	6	0.35	0.22	0.3
(1,923)	1:B:75:PHE:HD1	1:B:148:PRO:HA	6	0.35	0.22	0.3
(1,923)	1:B:75:PHE:HD2	1:B:148:PRO:HA	6	0.35	0.22	0.3
(1,1649)	1:B:142:VAL:HG11	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1649)	1:B:142:VAL:HG12	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1649)	1:B:142:VAL:HG13	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1649)	1:B:142:VAL:HG21	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1649)	1:B:142:VAL:HG22	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1649)	1:B:142:VAL:HG23	1:B:142:VAL:H	6	0.34	0.14	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1650)	1:B:142:VAL:HG11	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1650)	1:B:142:VAL:HG12	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1650)	1:B:142:VAL:HG13	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1650)	1:B:142:VAL:HG21	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1650)	1:B:142:VAL:HG22	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,1650)	1:B:142:VAL:HG23	1:B:142:VAL:H	6	0.34	0.14	0.37
(1,809)	1:A:144:THR:HG21	1:A:146:ASP:HB3	6	0.31	0.19	0.24
(1,809)	1:A:144:THR:HG22	1:A:146:ASP:HB3	6	0.31	0.19	0.24
(1,809)	1:A:144:THR:HG23	1:A:146:ASP:HB3	6	0.31	0.19	0.24
(1,1676)	1:B:144:THR:HG21	1:B:146:ASP:HB3	6	0.3	0.19	0.24
(1,1676)	1:B:144:THR:HG22	1:B:146:ASP:HB3	6	0.3	0.19	0.24
(1,1676)	1:B:144:THR:HG23	1:B:146:ASP:HB3	6	0.3	0.19	0.24
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD21	6	0.28	0.1	0.31
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD22	6	0.28	0.1	0.31
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD23	6	0.28	0.1	0.31
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD21	6	0.28	0.1	0.31
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD22	6	0.28	0.1	0.31
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD23	6	0.28	0.1	0.31
(1,826)	1:A:146:ASP:HB3	1:A:76:SER:HA	6	0.28	0.06	0.28
(1,1693)	1:B:146:ASP:HB3	1:B:76:SER:HA	6	0.28	0.06	0.28
(1,745)	1:A:136:SER:H	1:A:135:SER:H	6	0.27	0.03	0.27
(1,1612)	1:B:136:SER:H	1:B:135:SER:H	6	0.27	0.03	0.27
(1,430)	1:A:107:ARG:H	1:A:108:GLN:H	6	0.26	0.11	0.22
(1,1297)	1:B:107:ARG:H	1:B:108:GLN:H	6	0.26	0.11	0.22
(1,1147)	1:B:92:LYS:H	1:B:100:VAL:HA	6	0.26	0.11	0.24
(1,1262)	1:B:103:LYS:HG2	1:B:103:LYS:H	6	0.26	0.13	0.22
(1,1262)	1:B:103:LYS:HG3	1:B:103:LYS:H	6	0.26	0.13	0.22
(1,280)	1:A:92:LYS:H	1:A:100:VAL:HA	6	0.26	0.11	0.24
(1,395)	1:A:103:LYS:HG2	1:A:103:LYS:H	6	0.26	0.13	0.22
(1,395)	1:A:103:LYS:HG3	1:A:103:LYS:H	6	0.26	0.13	0.22
(1,1442)	1:B:119:HIS:HB3	1:B:119:HIS:HA	6	0.23	0.06	0.22
(1,1443)	1:B:119:HIS:HB3	1:B:119:HIS:HA	6	0.23	0.06	0.22
(1,575)	1:A:119:HIS:HB3	1:A:119:HIS:HA	6	0.23	0.06	0.22
(1,576)	1:A:119:HIS:HB3	1:A:119:HIS:HA	6	0.23	0.06	0.22
(1,379)	1:A:101:HIS:HB2	1:A:101:HIS:H	6	0.22	0.08	0.19
(1,1246)	1:B:101:HIS:HB2	1:B:101:HIS:H	6	0.22	0.08	0.19
(1,1281)	1:B:105:GLU:HG2	1:B:105:GLU:H	6	0.22	0.07	0.24
(1,1281)	1:B:105:GLU:HG3	1:B:105:GLU:H	6	0.22	0.07	0.24
(1,746)	1:A:136:SER:H	1:A:135:SER:H	6	0.2	0.03	0.2
(1,1613)	1:B:136:SER:H	1:B:135:SER:H	6	0.2	0.03	0.2
(1,130)	1:A:78:ASN:HB2	1:A:79:LEU:H	6	0.18	0.07	0.16
(1,997)	1:B:78:ASN:HB2	1:B:79:LEU:H	6	0.18	0.07	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,534)	1:A:116:ARG:H	1:A:104:HIS:H	6	0.18	0.1	0.14
(1,535)	1:A:116:ARG:H	1:A:104:HIS:H	6	0.18	0.1	0.14
(1,1401)	1:B:116:ARG:H	1:B:104:HIS:H	6	0.18	0.1	0.14
(1,1402)	1:B:116:ARG:H	1:B:104:HIS:H	6	0.18	0.1	0.14
(1,1294)	1:B:107:ARG:HB3	1:B:107:ARG:H	6	0.17	0.04	0.16
(1,833)	1:A:146:ASP:HB3	1:A:146:ASP:HA	6	0.12	0.01	0.12
(1,834)	1:A:146:ASP:HB3	1:A:146:ASP:HA	6	0.12	0.01	0.12
(1,1700)	1:B:146:ASP:HB3	1:B:146:ASP:HA	6	0.12	0.01	0.12
(1,1701)	1:B:146:ASP:HB3	1:B:146:ASP:HA	6	0.12	0.01	0.12
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB2	6	0.11	0.0	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB3	6	0.11	0.0	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB2	6	0.11	0.0	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB3	6	0.11	0.0	0.11
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD1	5	1.67	0.78	1.71
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD2	5	1.67	0.78	1.71
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD1	5	1.67	0.78	1.71
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD2	5	1.67	0.78	1.71
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD1	5	1.67	0.78	1.71
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD2	5	1.67	0.78	1.71
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD1	5	1.67	0.78	1.71
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD2	5	1.67	0.78	1.71
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD1	5	1.67	0.78	1.71
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD2	5	1.67	0.78	1.71
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD1	5	1.67	0.78	1.71
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD2	5	1.67	0.78	1.71
(1,483)	1:A:113:PHE:HE1	1:A:107:ARG:HA	5	1.55	0.11	1.58
(1,483)	1:A:113:PHE:HE2	1:A:107:ARG:HA	5	1.55	0.11	1.58
(1,1350)	1:B:113:PHE:HE1	1:B:107:ARG:HA	5	1.55	0.11	1.58
(1,1350)	1:B:113:PHE:HE2	1:B:107:ARG:HA	5	1.55	0.11	1.58
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD1	5	1.39	0.89	1.33
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD2	5	1.39	0.89	1.33
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD1	5	1.39	0.89	1.33
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD2	5	1.39	0.89	1.33
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE1	5	1.37	0.15	1.34
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE2	5	1.37	0.15	1.34
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE1	5	1.37	0.15	1.34
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE2	5	1.37	0.15	1.34
(1,258)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	5	1.31	0.2	1.29
(1,258)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	5	1.31	0.2	1.29
(1,258)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	5	1.31	0.2	1.29
(1,1125)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	5	1.31	0.2	1.29
(1,1125)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	5	1.31	0.2	1.29

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Key	Atom-1	Atom-2	Models^1	Mean (Å)	SD^1 (Å)	Median (Å)
(1,1125)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	5	1.31	0.2	1.29
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD1	5	1.2	0.15	1.19
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD2	5	1.2	0.15	1.19
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD1	5	1.2	0.15	1.19
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD2	5	1.2	0.15	1.19
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD1	5	1.2	0.15	1.19
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD2	5	1.2	0.15	1.19
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD1	5	1.19	0.16	1.19
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD2	5	1.19	0.16	1.19
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD1	5	1.19	0.16	1.19
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD2	5	1.19	0.16	1.19
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD1	5	1.19	0.16	1.19
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD2	5	1.19	0.16	1.19
(1,595)	1:A:122:TYR:HD1	1:A:122:TYR:H	5	1.06	0.48	1.21
(1,595)	1:A:122:TYR:HD2	1:A:122:TYR:H	5	1.06	0.48	1.21
(1,1462)	1:B:122:TYR:HD1	1:B:122:TYR:H	5	1.06	0.48	1.21
(1,1462)	1:B:122:TYR:HD2	1:B:122:TYR:H	5	1.06	0.48	1.21
(1,126)	1:A:78:ASN:H	1:A:78:ASN:HD22	5	1.05	0.15	0.95
(1,993)	1:B:78:ASN:H	1:B:78:ASN:HD22	5	1.05	0.15	0.95
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG2	5	1.03	0.07	0.99
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG3	5	1.03	0.07	0.99
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG2	5	1.03	0.07	0.99
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG3	5	1.03	0.07	0.99
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB2	5	0.89	0.35	1.04
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB3	5	0.89	0.35	1.04
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB2	5	0.89	0.35	1.04
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB3	5	0.89	0.35	1.04
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB2	5	0.89	0.35	1.04
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB3	5	0.89	0.35	1.04
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB2	5	0.89	0.35	1.04
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB3	5	0.89	0.35	1.04
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB2	5	0.89	0.35	1.04
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB3	5	0.89	0.35	1.04
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB2	5	0.89	0.35	1.04
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB3	5	0.89	0.35	1.04
(1,1270)	1:B:104:HIS:HA	1:B:104:HIS:HD2	5	0.89	0.04	0.89
(1,403)	1:A:104:HIS:HA	1:A:104:HIS:HD2	5	0.87	0.05	0.87
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD1	5	0.87	0.38	1.0
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD2	5	0.87	0.38	1.0
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD1	5	0.87	0.38	1.0
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD2	5	0.87	0.38	1.0
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD1	5	0.87	0.38	1.0

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Key	Atom-1	Atom-2	Models^1	Mean (Å)	SD^1 (Å)	Median (Å)
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD2	5	0.87	0.38	1.0
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD1	5	0.87	0.38	0.99
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD2	5	0.87	0.38	0.99
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD1	5	0.87	0.38	0.99
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD2	5	0.87	0.38	0.99
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD1	5	0.87	0.38	0.99
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD2	5	0.87	0.38	0.99
(1,185)	1:A:83:HIS:HB3	1:A:104:HIS:HB2	5	0.85	0.75	0.48
(1,1052)	1:B:83:HIS:HB3	1:B:104:HIS:HB2	5	0.85	0.75	0.48
(1,1729)	1:B:150:LYS:HG2	1:B:151:GLN:H	5	0.85	0.13	0.91
(1,1729)	1:B:150:LYS:HG3	1:B:151:GLN:H	5	0.85	0.13	0.91
(1,862)	1:A:150:LYS:HG2	1:A:151:GLN:H	5	0.85	0.13	0.9
(1,862)	1:A:150:LYS:HG3	1:A:151:GLN:H	5	0.85	0.13	0.9
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG11	5	0.8	0.21	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG12	5	0.8	0.21	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG13	5	0.8	0.21	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG21	5	0.8	0.21	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG22	5	0.8	0.21	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG23	5	0.8	0.21	0.77
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB2	5	0.8	0.44	0.97
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB3	5	0.8	0.44	0.97
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG11	5	0.8	0.21	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG12	5	0.8	0.21	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG13	5	0.8	0.21	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG21	5	0.8	0.21	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG22	5	0.8	0.21	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG23	5	0.8	0.21	0.77
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB2	5	0.79	0.44	0.96
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB3	5	0.79	0.44	0.96
(1,1467)	1:B:122:TYR:HA	1:B:123:ARG:HB3	5	0.79	0.28	0.91
(1,600)	1:A:122:TYR:HA	1:A:123:ARG:HB3	5	0.79	0.28	0.9
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB2	5	0.7	0.57	0.44
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB3	5	0.7	0.57	0.44
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB2	5	0.7	0.57	0.44
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB3	5	0.7	0.57	0.44
(1,243)	1:A:89:LEU:HD11	1:A:88:GLU:H	5	0.66	0.13	0.61
(1,243)	1:A:89:LEU:HD12	1:A:88:GLU:H	5	0.66	0.13	0.61
(1,243)	1:A:89:LEU:HD13	1:A:88:GLU:H	5	0.66	0.13	0.61
(1,1110)	1:B:89:LEU:HD11	1:B:88:GLU:H	5	0.66	0.13	0.61
(1,1110)	1:B:89:LEU:HD12	1:B:88:GLU:H	5	0.66	0.13	0.61
(1,1110)	1:B:89:LEU:HD13	1:B:88:GLU:H	5	0.66	0.13	0.61
(1,1058)	1:B:84:PHE:HD1	1:B:82:LYS:H	5	0.57	0.42	0.37

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Key	**Atom-1**	**Atom-2**	**Models**[1]	**Mean (Å)**	**SD**[1] **(Å)**	**Median (Å)**
(1,1058)	1:B:84:PHE:HD2	1:B:82:LYS:H	5	0.57	0.42	0.37
(1,191)	1:A:84:PHE:HD1	1:A:82:LYS:H	5	0.57	0.42	0.37
(1,191)	1:A:84:PHE:HD2	1:A:82:LYS:H	5	0.57	0.42	0.37
(1,1047)	1:B:83:HIS:HB2	1:B:83:HIS:H	5	0.53	0.17	0.57
(1,180)	1:A:83:HIS:HB2	1:A:83:HIS:H	5	0.53	0.17	0.57
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE1	5	0.53	0.03	0.54
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE2	5	0.53	0.03	0.54
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE1	5	0.53	0.03	0.54
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE2	5	0.53	0.03	0.54
(1,451)	1:A:109:ASP:H	1:A:112:GLY:H	5	0.5	0.19	0.54
(1,1318)	1:B:109:ASP:H	1:B:112:GLY:H	5	0.5	0.19	0.54
(1,63)	1:A:76:SER:HB2	1:A:77:VAL:H	5	0.49	0.2	0.46
(1,930)	1:B:76:SER:HB2	1:B:77:VAL:H	5	0.49	0.2	0.46
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD1	5	0.47	0.2	0.45
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD2	5	0.47	0.2	0.45
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD1	5	0.47	0.2	0.45
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD2	5	0.47	0.2	0.45
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD1	5	0.47	0.2	0.45
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD2	5	0.47	0.2	0.45
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD1	5	0.47	0.21	0.45
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD2	5	0.47	0.21	0.45
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD1	5	0.47	0.21	0.45
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD2	5	0.47	0.21	0.45
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD1	5	0.47	0.21	0.45
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD2	5	0.47	0.21	0.45
(1,163)	1:A:81:VAL:HG21	1:A:83:HIS:H	5	0.46	0.26	0.45
(1,163)	1:A:81:VAL:HG22	1:A:83:HIS:H	5	0.46	0.26	0.45
(1,163)	1:A:81:VAL:HG23	1:A:83:HIS:H	5	0.46	0.26	0.45
(1,1030)	1:B:81:VAL:HG21	1:B:83:HIS:H	5	0.46	0.26	0.45
(1,1030)	1:B:81:VAL:HG22	1:B:83:HIS:H	5	0.46	0.26	0.45
(1,1030)	1:B:81:VAL:HG23	1:B:83:HIS:H	5	0.46	0.26	0.45
(1,488)	1:A:113:PHE:HA	1:A:113:PHE:HB2	5	0.46	0.03	0.46
(1,1355)	1:B:113:PHE:HA	1:B:113:PHE:HB2	5	0.46	0.03	0.46
(1,62)	1:A:76:SER:HB3	1:A:76:SER:H	5	0.44	0.1	0.4
(1,929)	1:B:76:SER:HB3	1:B:76:SER:H	5	0.44	0.1	0.4
(1,1733)	1:B:152:VAL:H	1:B:151:GLN:H	5	0.4	0.24	0.38
(1,866)	1:A:152:VAL:H	1:A:151:GLN:H	5	0.4	0.23	0.38
(1,782)	1:A:142:VAL:HG11	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,782)	1:A:142:VAL:HG12	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,782)	1:A:142:VAL:HG13	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,782)	1:A:142:VAL:HG21	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,782)	1:A:142:VAL:HG22	1:A:142:VAL:H	5	0.39	0.1	0.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,782)	1:A:142:VAL:HG23	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,783)	1:A:142:VAL:HG11	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,783)	1:A:142:VAL:HG12	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,783)	1:A:142:VAL:HG13	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,783)	1:A:142:VAL:HG21	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,783)	1:A:142:VAL:HG22	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,783)	1:A:142:VAL:HG23	1:A:142:VAL:H	5	0.39	0.1	0.41
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG21	5	0.38	0.34	0.19
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG22	5	0.38	0.34	0.19
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG23	5	0.38	0.34	0.19
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG21	5	0.38	0.34	0.19
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG22	5	0.38	0.34	0.19
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG23	5	0.38	0.34	0.19
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG21	5	0.38	0.34	0.2
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG22	5	0.38	0.34	0.2
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG23	5	0.38	0.34	0.2
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG21	5	0.38	0.34	0.2
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG22	5	0.38	0.34	0.2
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG23	5	0.38	0.34	0.2
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD11	5	0.38	0.16	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD12	5	0.38	0.16	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD13	5	0.38	0.16	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD21	5	0.38	0.16	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD22	5	0.38	0.16	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD23	5	0.38	0.16	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD11	5	0.38	0.16	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD12	5	0.38	0.16	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD13	5	0.38	0.16	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD21	5	0.38	0.16	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD22	5	0.38	0.16	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD23	5	0.38	0.16	0.48
(1,216)	1:A:85:SER:HB2	1:A:89:LEU:H	5	0.33	0.14	0.27
(1,1083)	1:B:85:SER:HB2	1:B:89:LEU:H	5	0.33	0.14	0.27
(1,1225)	1:B:100:VAL:HG11	1:B:92:LYS:H	5	0.33	0.24	0.16
(1,1225)	1:B:100:VAL:HG12	1:B:92:LYS:H	5	0.33	0.24	0.16
(1,1225)	1:B:100:VAL:HG13	1:B:92:LYS:H	5	0.33	0.24	0.16
(1,259)	1:A:89:LEU:HD11	1:A:103:LYS:H	5	0.32	0.19	0.29
(1,259)	1:A:89:LEU:HD12	1:A:103:LYS:H	5	0.32	0.19	0.29
(1,259)	1:A:89:LEU:HD13	1:A:103:LYS:H	5	0.32	0.19	0.29
(1,358)	1:A:100:VAL:HG11	1:A:92:LYS:H	5	0.32	0.24	0.16
(1,358)	1:A:100:VAL:HG12	1:A:92:LYS:H	5	0.32	0.24	0.16
(1,358)	1:A:100:VAL:HG13	1:A:92:LYS:H	5	0.32	0.24	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB2	5	0.32	0.16	0.27
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB3	5	0.32	0.16	0.27
(1,1126)	1:B:89:LEU:HD11	1:B:103:LYS:H	5	0.32	0.19	0.29
(1,1126)	1:B:89:LEU:HD12	1:B:103:LYS:H	5	0.32	0.19	0.29
(1,1126)	1:B:89:LEU:HD13	1:B:103:LYS:H	5	0.32	0.19	0.29
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB2	5	0.32	0.16	0.26
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB3	5	0.32	0.16	0.26
(1,215)	1:A:85:SER:HB3	1:A:89:LEU:H	5	0.29	0.13	0.21
(1,1082)	1:B:85:SER:HB3	1:B:89:LEU:H	5	0.29	0.13	0.21
(1,812)	1:A:145:VAL:HB	1:A:135:SER:HA	5	0.29	0.11	0.27
(1,1679)	1:B:145:VAL:HB	1:B:135:SER:HA	5	0.29	0.1	0.27
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD11	5	0.28	0.09	0.26
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD12	5	0.28	0.09	0.26
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD13	5	0.28	0.09	0.26
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD11	5	0.28	0.09	0.26
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD12	5	0.28	0.09	0.26
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD13	5	0.28	0.09	0.26
(1,706)	1:A:132:THR:H	1:A:133:ILE:H	5	0.28	0.07	0.28
(1,708)	1:A:132:THR:H	1:A:133:ILE:H	5	0.28	0.07	0.28
(1,1573)	1:B:132:THR:H	1:B:133:ILE:H	5	0.28	0.07	0.28
(1,1575)	1:B:132:THR:H	1:B:133:ILE:H	5	0.28	0.07	0.28
(1,740)	1:A:135:SER:HA	1:A:145:VAL:HA	5	0.27	0.07	0.31
(1,742)	1:A:135:SER:HA	1:A:145:VAL:HA	5	0.27	0.07	0.31
(1,1607)	1:B:135:SER:HA	1:B:145:VAL:HA	5	0.27	0.07	0.31
(1,1609)	1:B:135:SER:HA	1:B:145:VAL:HA	5	0.27	0.07	0.31
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD11	5	0.24	0.04	0.25
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD12	5	0.24	0.04	0.25
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD13	5	0.24	0.04	0.25
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD11	5	0.24	0.04	0.25
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD12	5	0.24	0.04	0.25
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD13	5	0.24	0.04	0.25
(1,414)	1:A:105:GLU:HG2	1:A:105:GLU:H	5	0.24	0.06	0.25
(1,414)	1:A:105:GLU:HG3	1:A:105:GLU:H	5	0.24	0.06	0.25
(1,1282)	1:B:105:GLU:HA	1:B:106:GLU:H	5	0.21	0.07	0.2
(1,415)	1:A:105:GLU:HA	1:A:106:GLU:H	5	0.2	0.06	0.19
(1,988)	1:B:78:ASN:HA	1:B:78:ASN:HB2	5	0.19	0.01	0.19
(1,121)	1:A:78:ASN:HA	1:A:78:ASN:HB2	5	0.19	0.01	0.19
(1,478)	1:A:112:GLY:HA2	1:A:112:GLY:H	5	0.18	0.02	0.19
(1,1345)	1:B:112:GLY:HA2	1:B:112:GLY:H	5	0.18	0.02	0.19
(1,427)	1:A:107:ARG:HB3	1:A:107:ARG:H	5	0.18	0.04	0.18
(1,803)	1:A:144:THR:H	1:A:145:VAL:H	5	0.18	0.06	0.16
(1,808)	1:A:144:THR:H	1:A:145:VAL:H	5	0.18	0.06	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1670)	1:B:144:THR:H	1:B:145:VAL:H	5	0.18	0.05	0.16
(1,1675)	1:B:144:THR:H	1:B:145:VAL:H	5	0.18	0.05	0.16
(1,856)	1:A:150:LYS:H	1:A:149:ARG:H	5	0.15	0.03	0.16
(1,1723)	1:B:150:LYS:H	1:B:149:ARG:H	5	0.15	0.02	0.16
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG2	5	0.14	0.01	0.13
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG3	5	0.14	0.01	0.13
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG2	5	0.14	0.01	0.13
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG3	5	0.14	0.01	0.13
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD1	4	1.73	0.65	1.74
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD2	4	1.73	0.65	1.74
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD1	4	1.73	0.65	1.74
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD2	4	1.73	0.65	1.74
(1,39)	1:A:74:ARG:HG2	1:A:73:ASP:H	4	1.43	0.25	1.38
(1,39)	1:A:74:ARG:HG3	1:A:73:ASP:H	4	1.43	0.25	1.38
(1,906)	1:B:74:ARG:HG2	1:B:73:ASP:H	4	1.43	0.25	1.38
(1,906)	1:B:74:ARG:HG3	1:B:73:ASP:H	4	1.43	0.25	1.38
(1,190)	1:A:84:PHE:HE1	1:A:82:LYS:H	4	1.17	0.26	1.26
(1,190)	1:A:84:PHE:HE2	1:A:82:LYS:H	4	1.17	0.26	1.26
(1,1057)	1:B:84:PHE:HE1	1:B:82:LYS:H	4	1.17	0.26	1.25
(1,1057)	1:B:84:PHE:HE2	1:B:82:LYS:H	4	1.17	0.26	1.25
(1,194)	1:A:84:PHE:HD1	1:A:83:HIS:H	4	1.12	0.36	1.12
(1,194)	1:A:84:PHE:HD2	1:A:83:HIS:H	4	1.12	0.36	1.12
(1,1061)	1:B:84:PHE:HD1	1:B:83:HIS:H	4	1.12	0.36	1.12
(1,1061)	1:B:84:PHE:HD2	1:B:83:HIS:H	4	1.12	0.36	1.12
(1,76)	1:A:76:SER:HB3	1:A:146:ASP:HA	4	1.07	0.05	1.08
(1,943)	1:B:76:SER:HB3	1:B:146:ASP:HA	4	1.07	0.05	1.08
(1,69)	1:A:76:SER:HB3	1:A:146:ASP:HA	4	1.02	0.05	1.02
(1,936)	1:B:76:SER:HB3	1:B:146:ASP:HA	4	1.02	0.05	1.02
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD11	4	0.97	0.36	0.93
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD12	4	0.97	0.36	0.93
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD13	4	0.97	0.36	0.93
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD11	4	0.97	0.36	0.93
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD12	4	0.97	0.36	0.93
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD13	4	0.97	0.36	0.93
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD11	4	0.96	0.36	0.94
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD12	4	0.96	0.36	0.94
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD13	4	0.96	0.36	0.94
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD11	4	0.96	0.36	0.94
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD12	4	0.96	0.36	0.94
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD13	4	0.96	0.36	0.94
(1,1740)	1:A:113:PHE:HD1	1:B:121:LYS:H	4	0.84	0.22	0.8
(1,1740)	1:A:113:PHE:HD2	1:B:121:LYS:H	4	0.84	0.22	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,238)	1:A:89:LEU:HD11	1:A:85:SER:H	4	0.82	0.5	0.74
(1,238)	1:A:89:LEU:HD12	1:A:85:SER:H	4	0.82	0.5	0.74
(1,238)	1:A:89:LEU:HD13	1:A:85:SER:H	4	0.82	0.5	0.74
(1,1105)	1:B:89:LEU:HD11	1:B:85:SER:H	4	0.82	0.5	0.74
(1,1105)	1:B:89:LEU:HD12	1:B:85:SER:H	4	0.82	0.5	0.74
(1,1105)	1:B:89:LEU:HD13	1:B:85:SER:H	4	0.82	0.5	0.74
(1,551)	1:A:118:PHE:HD1	1:A:103:LYS:HA	4	0.79	0.43	0.9
(1,551)	1:A:118:PHE:HD2	1:A:103:LYS:HA	4	0.79	0.43	0.9
(1,1418)	1:B:118:PHE:HD1	1:B:103:LYS:HA	4	0.79	0.43	0.9
(1,1418)	1:B:118:PHE:HD2	1:B:103:LYS:HA	4	0.79	0.43	0.9
(1,41)	1:A:74:ARG:HG2	1:A:74:ARG:H	4	0.73	0.03	0.72
(1,41)	1:A:74:ARG:HG3	1:A:74:ARG:H	4	0.73	0.03	0.72
(1,908)	1:B:74:ARG:HG2	1:B:74:ARG:H	4	0.73	0.03	0.72
(1,908)	1:B:74:ARG:HG3	1:B:74:ARG:H	4	0.73	0.03	0.72
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE1	4	0.71	0.32	0.68
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE2	4	0.71	0.32	0.68
(1,1595)	1:B:133:ILE:HG12	1:B:147:GLY:HA2	4	0.66	0.41	0.64
(1,1595)	1:B:133:ILE:HG13	1:B:147:GLY:HA2	4	0.66	0.41	0.64
(1,728)	1:A:133:ILE:HG12	1:A:147:GLY:HA2	4	0.66	0.4	0.64
(1,728)	1:A:133:ILE:HG13	1:A:147:GLY:HA2	4	0.66	0.4	0.64
(1,498)	1:A:113:PHE:HB2	1:A:113:PHE:H	4	0.65	0.13	0.68
(1,1365)	1:B:113:PHE:HB2	1:B:113:PHE:H	4	0.65	0.13	0.68
(1,26)	1:A:71:GLU:H	1:A:76:SER:H	4	0.64	0.49	0.48
(1,893)	1:B:71:GLU:H	1:B:76:SER:H	4	0.64	0.49	0.48
(1,1768)	1:A:122:TYR:HA	1:B:112:GLY:H	4	0.62	0.18	0.66
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB2	4	0.6	0.19	0.66
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB3	4	0.6	0.19	0.66
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB2	4	0.6	0.19	0.65
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB3	4	0.6	0.19	0.65
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD1	4	0.58	0.29	0.68
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD2	4	0.58	0.29	0.68
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD1	4	0.58	0.29	0.68
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD2	4	0.58	0.29	0.68
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG21	4	0.58	0.23	0.6
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG22	4	0.58	0.23	0.6
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG23	4	0.58	0.23	0.6
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG21	4	0.58	0.23	0.6
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG22	4	0.58	0.23	0.6
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG23	4	0.58	0.23	0.6
(1,251)	1:A:89:LEU:HG	1:A:90:LYS:H	4	0.52	0.13	0.52
(1,1118)	1:B:89:LEU:HG	1:B:90:LYS:H	4	0.52	0.13	0.52
(1,244)	1:A:89:LEU:HD21	1:A:88:GLU:H	4	0.51	0.07	0.52

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,244)	1:A:89:LEU:HD22	1:A:88:GLU:H	4	0.51	0.07	0.52
(1,244)	1:A:89:LEU:HD23	1:A:88:GLU:H	4	0.51	0.07	0.52
(1,1111)	1:B:89:LEU:HD21	1:B:88:GLU:H	4	0.51	0.07	0.52
(1,1111)	1:B:89:LEU:HD22	1:B:88:GLU:H	4	0.51	0.07	0.52
(1,1111)	1:B:89:LEU:HD23	1:B:88:GLU:H	4	0.51	0.07	0.52
(1,512)	1:A:114:ILE:HD11	1:A:113:PHE:HA	4	0.5	0.12	0.48
(1,512)	1:A:114:ILE:HD12	1:A:113:PHE:HA	4	0.5	0.12	0.48
(1,512)	1:A:114:ILE:HD13	1:A:113:PHE:HA	4	0.5	0.12	0.48
(1,1379)	1:B:114:ILE:HD11	1:B:113:PHE:HA	4	0.5	0.12	0.48
(1,1379)	1:B:114:ILE:HD12	1:B:113:PHE:HA	4	0.5	0.12	0.48
(1,1379)	1:B:114:ILE:HD13	1:B:113:PHE:HA	4	0.5	0.12	0.48
(1,1756)	1:A:118:PHE:HA	1:B:117:GLU:H	4	0.5	0.22	0.4
(1,192)	1:A:84:PHE:HD1	1:A:83:HIS:HB3	4	0.45	0.15	0.52
(1,192)	1:A:84:PHE:HD2	1:A:83:HIS:HB3	4	0.45	0.15	0.52
(1,1059)	1:B:84:PHE:HD1	1:B:83:HIS:HB3	4	0.45	0.15	0.52
(1,1059)	1:B:84:PHE:HD2	1:B:83:HIS:HB3	4	0.45	0.15	0.52
(1,102)	1:A:77:VAL:HG11	1:A:78:ASN:H	4	0.43	0.25	0.42
(1,102)	1:A:77:VAL:HG12	1:A:78:ASN:H	4	0.43	0.25	0.42
(1,102)	1:A:77:VAL:HG13	1:A:78:ASN:H	4	0.43	0.25	0.42
(1,1243)	1:B:101:HIS:HB2	1:B:101:HIS:HD2	4	0.43	0.08	0.47
(1,969)	1:B:77:VAL:HG11	1:B:78:ASN:H	4	0.43	0.25	0.42
(1,969)	1:B:77:VAL:HG12	1:B:78:ASN:H	4	0.43	0.25	0.42
(1,969)	1:B:77:VAL:HG13	1:B:78:ASN:H	4	0.43	0.25	0.42
(1,376)	1:A:101:HIS:HB2	1:A:101:HIS:HD2	4	0.42	0.07	0.46
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG21	4	0.42	0.19	0.37
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG22	4	0.42	0.19	0.37
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG23	4	0.42	0.19	0.37
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG21	4	0.42	0.19	0.37
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG22	4	0.42	0.19	0.37
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG23	4	0.42	0.19	0.37
(1,193)	1:A:84:PHE:HD1	1:A:83:HIS:HA	4	0.42	0.15	0.48
(1,193)	1:A:84:PHE:HD2	1:A:83:HIS:HA	4	0.42	0.15	0.48
(1,1060)	1:B:84:PHE:HD1	1:B:83:HIS:HA	4	0.42	0.15	0.48
(1,1060)	1:B:84:PHE:HD2	1:B:83:HIS:HA	4	0.42	0.15	0.48
(1,1440)	1:B:119:HIS:HA	1:B:119:HIS:HD2	4	0.35	0.08	0.38
(1,573)	1:A:119:HIS:HA	1:A:119:HIS:HD2	4	0.32	0.09	0.34
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD1	4	0.31	0.05	0.3
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD2	4	0.31	0.05	0.3
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD1	4	0.31	0.06	0.3
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD2	4	0.31	0.06	0.3
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD2	4	0.3	0.06	0.3
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD3	4	0.3	0.06	0.3

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Key	Atom-1	Atom-2	Models^1	Mean (Å)	SD^1 (Å)	Median (Å)
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD2	4	0.3	0.06	0.3
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD3	4	0.3	0.06	0.3
(1,311)	1:A:96:ASP:HB2	1:A:96:ASP:H	4	0.29	0.02	0.3
(1,311)	1:A:96:ASP:HB3	1:A:96:ASP:H	4	0.29	0.02	0.3
(1,313)	1:A:96:ASP:HB2	1:A:96:ASP:H	4	0.29	0.02	0.3
(1,313)	1:A:96:ASP:HB3	1:A:96:ASP:H	4	0.29	0.02	0.3
(1,314)	1:A:96:ASP:HB2	1:A:96:ASP:H	4	0.29	0.02	0.3
(1,314)	1:A:96:ASP:HB3	1:A:96:ASP:H	4	0.29	0.02	0.3
(1,1178)	1:B:96:ASP:HB2	1:B:96:ASP:H	4	0.29	0.02	0.3
(1,1178)	1:B:96:ASP:HB3	1:B:96:ASP:H	4	0.29	0.02	0.3
(1,1180)	1:B:96:ASP:HB2	1:B:96:ASP:H	4	0.29	0.02	0.3
(1,1180)	1:B:96:ASP:HB3	1:B:96:ASP:H	4	0.29	0.02	0.3
(1,1181)	1:B:96:ASP:HB2	1:B:96:ASP:H	4	0.29	0.02	0.3
(1,1181)	1:B:96:ASP:HB3	1:B:96:ASP:H	4	0.29	0.02	0.3
(1,487)	1:A:113:PHE:H	1:A:112:GLY:H	4	0.28	0.02	0.28
(1,1354)	1:B:113:PHE:H	1:B:112:GLY:H	4	0.28	0.02	0.28
(1,510)	1:A:114:ILE:HG21	1:A:111:HIS:H	4	0.26	0.16	0.22
(1,510)	1:A:114:ILE:HG22	1:A:111:HIS:H	4	0.26	0.16	0.22
(1,510)	1:A:114:ILE:HG23	1:A:111:HIS:H	4	0.26	0.16	0.22
(1,1377)	1:B:114:ILE:HG21	1:B:111:HIS:H	4	0.26	0.16	0.22
(1,1377)	1:B:114:ILE:HG22	1:B:111:HIS:H	4	0.26	0.16	0.22
(1,1377)	1:B:114:ILE:HG23	1:B:111:HIS:H	4	0.26	0.16	0.22
(1,1527)	1:B:126:ALA:HA	1:B:128:VAL:H	4	0.26	0.22	0.16
(1,572)	1:A:119:HIS:HB2	1:A:119:HIS:HA	4	0.26	0.05	0.29
(1,1439)	1:B:119:HIS:HB2	1:B:119:HIS:HA	4	0.26	0.04	0.28
(1,1146)	1:B:92:LYS:H	1:B:99:GLU:H	4	0.25	0.1	0.26
(1,279)	1:A:92:LYS:H	1:A:99:GLU:H	4	0.25	0.1	0.25
(1,120)	1:A:78:ASN:HA	1:A:78:ASN:HB3	4	0.24	0.01	0.24
(1,987)	1:B:78:ASN:HA	1:B:78:ASN:HB3	4	0.24	0.01	0.24
(1,1280)	1:B:105:GLU:HG2	1:B:105:GLU:H	4	0.22	0.06	0.24
(1,1280)	1:B:105:GLU:HG3	1:B:105:GLU:H	4	0.22	0.06	0.24
(1,390)	1:A:102:GLY:HA2	1:A:103:LYS:H	4	0.21	0.06	0.22
(1,1257)	1:B:102:GLY:HA2	1:B:103:LYS:H	4	0.21	0.06	0.22
(1,241)	1:A:89:LEU:H	1:A:88:GLU:H	4	0.2	0.08	0.2
(1,242)	1:A:89:LEU:H	1:A:88:GLU:H	4	0.2	0.08	0.2
(1,129)	1:A:78:ASN:HB3	1:A:79:LEU:H	4	0.18	0.05	0.18
(1,996)	1:B:78:ASN:HB3	1:B:79:LEU:H	4	0.18	0.05	0.18
(1,250)	1:A:89:LEU:HD21	1:A:89:LEU:H	4	0.17	0.03	0.16
(1,250)	1:A:89:LEU:HD22	1:A:89:LEU:H	4	0.17	0.03	0.16
(1,250)	1:A:89:LEU:HD23	1:A:89:LEU:H	4	0.17	0.03	0.16
(1,1117)	1:B:89:LEU:HD21	1:B:89:LEU:H	4	0.17	0.03	0.16
(1,1117)	1:B:89:LEU:HD22	1:B:89:LEU:H	4	0.17	0.03	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1117)	1:B:89:LEU:HD23	1:B:89:LEU:H	4	0.17	0.03	0.16
(1,482)	1:A:113:PHE:HD1	1:A:107:ARG:HA	4	0.17	0.06	0.16
(1,482)	1:A:113:PHE:HD2	1:A:107:ARG:HA	4	0.17	0.06	0.16
(1,1349)	1:B:113:PHE:HD1	1:B:107:ARG:HA	4	0.17	0.06	0.16
(1,1349)	1:B:113:PHE:HD2	1:B:107:ARG:HA	4	0.17	0.06	0.16
(1,77)	1:A:76:SER:HB2	1:A:146:ASP:HB3	4	0.14	0.04	0.12
(1,944)	1:B:76:SER:HB2	1:B:146:ASP:HB3	4	0.14	0.03	0.12
(1,425)	1:A:107:ARG:HA	1:A:107:ARG:H	4	0.13	0.03	0.12
(1,1292)	1:B:107:ARG:HA	1:B:107:ARG:H	4	0.13	0.03	0.12
(1,1399)	1:B:115:SER:HB3	1:B:116:ARG:H	4	0.12	0.01	0.12
(1,45)	1:A:75:PHE:HA	1:A:74:ARG:HG2	3	1.42	0.05	1.43
(1,45)	1:A:75:PHE:HA	1:A:74:ARG:HG3	3	1.42	0.05	1.43
(1,912)	1:B:75:PHE:HA	1:B:74:ARG:HG2	3	1.42	0.05	1.43
(1,912)	1:B:75:PHE:HA	1:B:74:ARG:HG3	3	1.42	0.05	1.43
(1,642)	1:A:125:PRO:HD3	1:A:122:TYR:HD1	3	1.39	0.51	1.5
(1,642)	1:A:125:PRO:HD3	1:A:122:TYR:HD2	3	1.39	0.51	1.5
(1,1509)	1:B:125:PRO:HD3	1:B:122:TYR:HD1	3	1.39	0.51	1.5
(1,1509)	1:B:125:PRO:HD3	1:B:122:TYR:HD2	3	1.39	0.51	1.5
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE1	3	1.19	0.29	1.36
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE2	3	1.19	0.29	1.36
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE3	3	1.19	0.29	1.36
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE1	3	1.19	0.29	1.36
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE2	3	1.19	0.29	1.36
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE3	3	1.19	0.29	1.36
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE1	3	1.19	0.29	1.36
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE2	3	1.19	0.29	1.36
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE3	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE1	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE2	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE3	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE1	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE2	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE3	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE1	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE2	3	1.19	0.29	1.36
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE3	3	1.19	0.29	1.36
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE1	3	1.18	0.29	1.35
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE2	3	1.18	0.29	1.35
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE3	3	1.18	0.29	1.35
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE1	3	1.18	0.29	1.35
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE2	3	1.18	0.29	1.35
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE3	3	1.18	0.29	1.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE1	3	1.18	0.29	1.35
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE2	3	1.18	0.29	1.35
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE3	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE1	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE2	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE3	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE1	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE2	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE3	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE1	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE2	3	1.18	0.29	1.35
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE3	3	1.18	0.29	1.35
(1,739)	1:A:135:SER:HB3	1:A:145:VAL:HA	3	0.96	0.03	0.96
(1,1606)	1:B:135:SER:HB3	1:B:145:VAL:HA	3	0.96	0.03	0.96
(1,18)	1:A:70:LEU:HD11	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,18)	1:A:70:LEU:HD12	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,18)	1:A:70:LEU:HD13	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,18)	1:A:70:LEU:HD21	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,18)	1:A:70:LEU:HD22	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,18)	1:A:70:LEU:HD23	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,19)	1:A:70:LEU:HD11	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,19)	1:A:70:LEU:HD12	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,19)	1:A:70:LEU:HD13	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,19)	1:A:70:LEU:HD21	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,19)	1:A:70:LEU:HD22	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,19)	1:A:70:LEU:HD23	1:A:70:LEU:H	3	0.94	0.51	0.62
(1,885)	1:B:70:LEU:HD11	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,885)	1:B:70:LEU:HD12	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,885)	1:B:70:LEU:HD13	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,885)	1:B:70:LEU:HD21	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,885)	1:B:70:LEU:HD22	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,885)	1:B:70:LEU:HD23	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,886)	1:B:70:LEU:HD11	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,886)	1:B:70:LEU:HD12	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,886)	1:B:70:LEU:HD13	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,886)	1:B:70:LEU:HD21	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,886)	1:B:70:LEU:HD22	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,886)	1:B:70:LEU:HD23	1:B:70:LEU:H	3	0.94	0.51	0.62
(1,859)	1:A:150:LYS:H	1:A:150:LYS:HG2	3	0.9	0.03	0.89
(1,859)	1:A:150:LYS:H	1:A:150:LYS:HG3	3	0.9	0.03	0.89
(1,1726)	1:B:150:LYS:H	1:B:150:LYS:HG2	3	0.89	0.04	0.89
(1,1726)	1:B:150:LYS:H	1:B:150:LYS:HG3	3	0.89	0.04	0.89

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,709)	1:A:132:THR:HB	1:A:147:GLY:HA3	3	0.87	0.06	0.86
(1,1576)	1:B:132:THR:HB	1:B:147:GLY:HA3	3	0.87	0.06	0.86
(1,552)	1:A:118:PHE:HE1	1:A:103:LYS:H	3	0.8	0.79	0.39
(1,552)	1:A:118:PHE:HE2	1:A:103:LYS:H	3	0.8	0.79	0.39
(1,1419)	1:B:118:PHE:HE1	1:B:103:LYS:H	3	0.8	0.79	0.39
(1,1419)	1:B:118:PHE:HE2	1:B:103:LYS:H	3	0.8	0.79	0.39
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD11	3	0.76	0.46	1.05
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD12	3	0.76	0.46	1.05
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD13	3	0.76	0.46	1.05
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD11	3	0.75	0.16	0.73
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD12	3	0.75	0.16	0.73
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD13	3	0.75	0.16	0.73
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD11	3	0.75	0.16	0.73
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD12	3	0.75	0.16	0.73
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD13	3	0.75	0.16	0.73
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD11	3	0.75	0.16	0.73
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD12	3	0.75	0.16	0.73
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD13	3	0.75	0.16	0.73
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD11	3	0.74	0.15	0.73
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD12	3	0.74	0.15	0.73
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD13	3	0.74	0.15	0.73
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD11	3	0.74	0.15	0.73
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD12	3	0.74	0.15	0.73
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD13	3	0.74	0.15	0.73
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD11	3	0.74	0.15	0.73
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD12	3	0.74	0.15	0.73
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD13	3	0.74	0.15	0.73
(1,50)	1:A:75:PHE:HD1	1:A:75:PHE:H	3	0.7	0.11	0.74
(1,50)	1:A:75:PHE:HD2	1:A:75:PHE:H	3	0.7	0.11	0.74
(1,917)	1:B:75:PHE:HD1	1:B:75:PHE:H	3	0.7	0.11	0.74
(1,917)	1:B:75:PHE:HD2	1:B:75:PHE:H	3	0.7	0.11	0.74
(1,17)	1:A:70:LEU:H	1:A:70:LEU:HB3	3	0.68	0.07	0.66
(1,884)	1:B:70:LEU:H	1:B:70:LEU:HB3	3	0.68	0.07	0.66
(1,296)	1:A:94:LEU:H	1:A:99:GLU:H	3	0.68	0.36	0.75
(1,1163)	1:B:94:LEU:H	1:B:99:GLU:H	3	0.68	0.36	0.75
(1,35)	1:A:73:ASP:H	1:A:74:ARG:HB3	3	0.65	0.08	0.62
(1,902)	1:B:73:ASP:H	1:B:74:ARG:HB3	3	0.65	0.08	0.62
(1,950)	1:B:77:VAL:HG11	1:B:68:MET:HA	3	0.6	0.28	0.49
(1,950)	1:B:77:VAL:HG12	1:B:68:MET:HA	3	0.6	0.28	0.49
(1,950)	1:B:77:VAL:HG13	1:B:68:MET:HA	3	0.6	0.28	0.49
(1,83)	1:A:77:VAL:HG11	1:A:68:MET:HA	3	0.6	0.28	0.49
(1,83)	1:A:77:VAL:HG12	1:A:68:MET:HA	3	0.6	0.28	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,83)	1:A:77:VAL:HG13	1:A:68:MET:HA	3	0.6	0.28	0.49
(1,565)	1:A:118:PHE:HB2	1:A:119:HIS:H	3	0.59	0.08	0.57
(1,1432)	1:B:118:PHE:HB2	1:B:119:HIS:H	3	0.59	0.08	0.57
(1,1020)	1:B:81:VAL:HG11	1:B:80:ASP:HA	3	0.56	0.03	0.54
(1,1020)	1:B:81:VAL:HG12	1:B:80:ASP:HA	3	0.56	0.03	0.54
(1,1020)	1:B:81:VAL:HG13	1:B:80:ASP:HA	3	0.56	0.03	0.54
(1,153)	1:A:81:VAL:HG11	1:A:80:ASP:HA	3	0.56	0.02	0.54
(1,153)	1:A:81:VAL:HG12	1:A:80:ASP:HA	3	0.56	0.02	0.54
(1,153)	1:A:81:VAL:HG13	1:A:80:ASP:HA	3	0.56	0.02	0.54
(1,154)	1:A:81:VAL:HG21	1:A:81:VAL:HA	3	0.53	0.04	0.51
(1,154)	1:A:81:VAL:HG22	1:A:81:VAL:HA	3	0.53	0.04	0.51
(1,154)	1:A:81:VAL:HG23	1:A:81:VAL:HA	3	0.53	0.04	0.51
(1,1021)	1:B:81:VAL:HG21	1:B:81:VAL:HA	3	0.52	0.05	0.49
(1,1021)	1:B:81:VAL:HG22	1:B:81:VAL:HA	3	0.52	0.05	0.49
(1,1021)	1:B:81:VAL:HG23	1:B:81:VAL:HA	3	0.52	0.05	0.49
(1,383)	1:A:101:HIS:HA	1:A:119:HIS:HD2	3	0.48	0.25	0.45
(1,1250)	1:B:101:HIS:HA	1:B:119:HIS:HD2	3	0.48	0.27	0.4
(1,3)	1:A:66:SER:HB2	1:A:66:SER:H	3	0.44	0.16	0.45
(1,870)	1:B:66:SER:HB2	1:B:66:SER:H	3	0.44	0.16	0.45
(1,418)	1:A:105:GLU:HG2	1:A:115:SER:HB3	3	0.43	0.3	0.28
(1,418)	1:A:105:GLU:HG3	1:A:115:SER:HB3	3	0.43	0.3	0.28
(1,1285)	1:B:105:GLU:HG2	1:B:115:SER:HB3	3	0.43	0.3	0.28
(1,1285)	1:B:105:GLU:HG3	1:B:115:SER:HB3	3	0.43	0.3	0.28
(1,863)	1:A:150:LYS:H	1:A:151:GLN:H	3	0.43	0.27	0.31
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD11	3	0.43	0.09	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD12	3	0.43	0.09	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD13	3	0.43	0.09	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD21	3	0.43	0.09	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD22	3	0.43	0.09	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD23	3	0.43	0.09	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD11	3	0.43	0.09	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD12	3	0.43	0.09	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD13	3	0.43	0.09	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD21	3	0.43	0.09	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD22	3	0.43	0.09	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD23	3	0.43	0.09	0.41
(1,1730)	1:B:150:LYS:H	1:B:151:GLN:H	3	0.43	0.26	0.31
(1,881)	1:B:68:MET:HE1	1:B:122:TYR:HD1	3	0.41	0.17	0.37
(1,881)	1:B:68:MET:HE1	1:B:122:TYR:HD2	3	0.41	0.17	0.37
(1,881)	1:B:68:MET:HE2	1:B:122:TYR:HD1	3	0.41	0.17	0.37
(1,881)	1:B:68:MET:HE2	1:B:122:TYR:HD2	3	0.41	0.17	0.37
(1,881)	1:B:68:MET:HE3	1:B:122:TYR:HD1	3	0.41	0.17	0.37

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,881)	1:B:68:MET:HE3	1:B:122:TYR:HD2	3	0.41	0.17	0.37
(1,14)	1:A:68:MET:HE1	1:A:122:TYR:HD1	3	0.41	0.17	0.36
(1,14)	1:A:68:MET:HE1	1:A:122:TYR:HD2	3	0.41	0.17	0.36
(1,14)	1:A:68:MET:HE2	1:A:122:TYR:HD1	3	0.41	0.17	0.36
(1,14)	1:A:68:MET:HE2	1:A:122:TYR:HD2	3	0.41	0.17	0.36
(1,14)	1:A:68:MET:HE3	1:A:122:TYR:HD1	3	0.41	0.17	0.36
(1,14)	1:A:68:MET:HE3	1:A:122:TYR:HD2	3	0.41	0.17	0.36
(1,1199)	1:B:97:VAL:HA	1:B:124:ILE:HG12	3	0.37	0.07	0.41
(1,1199)	1:B:97:VAL:HA	1:B:124:ILE:HG13	3	0.37	0.07	0.41
(1,332)	1:A:97:VAL:HA	1:A:124:ILE:HG12	3	0.37	0.07	0.41
(1,332)	1:A:97:VAL:HA	1:A:124:ILE:HG13	3	0.37	0.07	0.41
(1,9)	1:A:68:MET:HE1	1:A:68:MET:H	3	0.36	0.16	0.29
(1,9)	1:A:68:MET:HE2	1:A:68:MET:H	3	0.36	0.16	0.29
(1,9)	1:A:68:MET:HE3	1:A:68:MET:H	3	0.36	0.16	0.29
(1,876)	1:B:68:MET:HE1	1:B:68:MET:H	3	0.35	0.17	0.29
(1,876)	1:B:68:MET:HE2	1:B:68:MET:H	3	0.35	0.17	0.29
(1,876)	1:B:68:MET:HE3	1:B:68:MET:H	3	0.35	0.17	0.29
(1,660)	1:A:126:ALA:HA	1:A:128:VAL:H	3	0.31	0.22	0.17
(1,787)	1:A:143:LEU:H	1:A:79:LEU:H	3	0.31	0.15	0.35
(1,1654)	1:B:143:LEU:H	1:B:79:LEU:H	3	0.31	0.15	0.35
(1,42)	1:A:74:ARG:H	1:A:74:ARG:HB2	3	0.29	0.05	0.31
(1,909)	1:B:74:ARG:H	1:B:74:ARG:HB2	3	0.29	0.05	0.31
(1,1331)	1:B:111:HIS:H	1:B:111:HIS:HD2	3	0.29	0.13	0.2
(1,471)	1:A:111:HIS:H	1:A:112:GLY:H	3	0.28	0.16	0.17
(1,1338)	1:B:111:HIS:H	1:B:112:GLY:H	3	0.28	0.16	0.17
(1,37)	1:A:74:ARG:H	1:A:73:ASP:H	3	0.26	0.04	0.28
(1,38)	1:A:74:ARG:H	1:A:73:ASP:H	3	0.26	0.04	0.28
(1,904)	1:B:74:ARG:H	1:B:73:ASP:H	3	0.26	0.04	0.28
(1,905)	1:B:74:ARG:H	1:B:73:ASP:H	3	0.26	0.04	0.28
(1,282)	1:A:93:VAL:H	1:A:92:LYS:HG2	3	0.25	0.11	0.19
(1,282)	1:A:93:VAL:H	1:A:92:LYS:HG3	3	0.25	0.11	0.19
(1,413)	1:A:105:GLU:HG2	1:A:105:GLU:H	3	0.25	0.02	0.25
(1,413)	1:A:105:GLU:HG3	1:A:105:GLU:H	3	0.25	0.02	0.25
(1,1149)	1:B:93:VAL:H	1:B:92:LYS:HG2	3	0.25	0.11	0.19
(1,1149)	1:B:93:VAL:H	1:B:92:LYS:HG3	3	0.25	0.11	0.19
(1,485)	1:A:113:PHE:HA	1:A:108:GLN:HA	3	0.24	0.07	0.25
(1,1352)	1:B:113:PHE:HA	1:B:108:GLN:HA	3	0.24	0.07	0.25
(1,80)	1:A:77:VAL:HA	1:A:68:MET:HA	3	0.24	0.05	0.27
(1,947)	1:B:77:VAL:HA	1:B:68:MET:HA	3	0.24	0.05	0.27
(1,1108)	1:B:89:LEU:H	1:B:88:GLU:H	3	0.23	0.06	0.25
(1,1109)	1:B:89:LEU:H	1:B:88:GLU:H	3	0.23	0.06	0.25
(1,57)	1:A:75:PHE:H	1:A:149:ARG:H	3	0.22	0.14	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,924)	1:B:75:PHE:H	1:B:149:ARG:H	3	0.22	0.14	0.14
(1,48)	1:A:75:PHE:HA	1:A:75:PHE:HB3	3	0.22	0.07	0.22
(1,275)	1:A:92:LYS:H	1:A:92:LYS:HG2	3	0.22	0.05	0.24
(1,275)	1:A:92:LYS:H	1:A:92:LYS:HG3	3	0.22	0.05	0.24
(1,915)	1:B:75:PHE:HA	1:B:75:PHE:HB3	3	0.22	0.07	0.22
(1,1142)	1:B:92:LYS:H	1:B:92:LYS:HG2	3	0.22	0.05	0.24
(1,1142)	1:B:92:LYS:H	1:B:92:LYS:HG3	3	0.22	0.05	0.24
(1,860)	1:A:150:LYS:H	1:A:151:GLN:H	3	0.21	0.07	0.18
(1,1672)	1:B:144:THR:HG21	1:B:145:VAL:H	3	0.21	0.07	0.22
(1,1672)	1:B:144:THR:HG22	1:B:145:VAL:H	3	0.21	0.07	0.22
(1,1672)	1:B:144:THR:HG23	1:B:145:VAL:H	3	0.21	0.07	0.22
(1,1727)	1:B:150:LYS:H	1:B:151:GLN:H	3	0.21	0.08	0.18
(1,805)	1:A:144:THR:HG21	1:A:145:VAL:H	3	0.2	0.07	0.21
(1,805)	1:A:144:THR:HG22	1:A:145:VAL:H	3	0.2	0.07	0.21
(1,805)	1:A:144:THR:HG23	1:A:145:VAL:H	3	0.2	0.07	0.21
(1,85)	1:A:77:VAL:HB	1:A:75:PHE:HD1	3	0.19	0.01	0.19
(1,85)	1:A:77:VAL:HB	1:A:75:PHE:HD2	3	0.19	0.01	0.19
(1,952)	1:B:77:VAL:HB	1:B:75:PHE:HD1	3	0.19	0.01	0.19
(1,952)	1:B:77:VAL:HB	1:B:75:PHE:HD2	3	0.19	0.01	0.19
(1,614)	1:A:124:ILE:HD11	1:A:96:ASP:H	3	0.18	0.05	0.15
(1,614)	1:A:124:ILE:HD12	1:A:96:ASP:H	3	0.18	0.05	0.15
(1,614)	1:A:124:ILE:HD13	1:A:96:ASP:H	3	0.18	0.05	0.15
(1,731)	1:A:134:THR:HG21	1:A:135:SER:H	3	0.18	0.03	0.19
(1,731)	1:A:134:THR:HG22	1:A:135:SER:H	3	0.18	0.03	0.19
(1,731)	1:A:134:THR:HG23	1:A:135:SER:H	3	0.18	0.03	0.19
(1,1481)	1:B:124:ILE:HD11	1:B:96:ASP:H	3	0.18	0.04	0.15
(1,1481)	1:B:124:ILE:HD12	1:B:96:ASP:H	3	0.18	0.04	0.15
(1,1481)	1:B:124:ILE:HD13	1:B:96:ASP:H	3	0.18	0.04	0.15
(1,1598)	1:B:134:THR:HG21	1:B:135:SER:H	3	0.18	0.03	0.19
(1,1598)	1:B:134:THR:HG22	1:B:135:SER:H	3	0.18	0.03	0.19
(1,1598)	1:B:134:THR:HG23	1:B:135:SER:H	3	0.18	0.03	0.19
(1,1622)	1:B:138:SER:H	1:B:137:LEU:H	3	0.18	0.02	0.17
(1,755)	1:A:138:SER:H	1:A:137:LEU:H	3	0.17	0.02	0.16
(1,942)	1:B:76:SER:HB3	1:B:146:ASP:HB3	3	0.17	0.05	0.15
(1,75)	1:A:76:SER:HB3	1:A:146:ASP:HB3	3	0.17	0.05	0.15
(1,656)	1:A:125:PRO:HA	1:A:127:ASP:H	3	0.17	0.04	0.17
(1,1523)	1:B:125:PRO:HA	1:B:127:ASP:H	3	0.17	0.04	0.17
(1,794)	1:A:144:THR:HG21	1:A:78:ASN:HA	3	0.16	0.04	0.18
(1,794)	1:A:144:THR:HG22	1:A:78:ASN:HA	3	0.16	0.04	0.18
(1,794)	1:A:144:THR:HG23	1:A:78:ASN:HA	3	0.16	0.04	0.18
(1,417)	1:A:105:GLU:HG2	1:A:106:GLU:H	3	0.16	0.02	0.16
(1,417)	1:A:105:GLU:HG3	1:A:106:GLU:H	3	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1284)	1:B:105:GLU:HG2	1:B:106:GLU:H	3	0.16	0.02	0.16
(1,1284)	1:B:105:GLU:HG3	1:B:106:GLU:H	3	0.16	0.02	0.16
(1,372)	1:A:101:HIS:HA	1:A:101:HIS:HD2	3	0.16	0.05	0.12
(1,1239)	1:B:101:HIS:HA	1:B:101:HIS:HD2	3	0.16	0.05	0.12
(1,47)	1:A:75:PHE:HA	1:A:75:PHE:HD1	3	0.15	0.03	0.15
(1,47)	1:A:75:PHE:HA	1:A:75:PHE:HD2	3	0.15	0.03	0.15
(1,914)	1:B:75:PHE:HA	1:B:75:PHE:HD1	3	0.15	0.03	0.15
(1,914)	1:B:75:PHE:HA	1:B:75:PHE:HD2	3	0.15	0.03	0.15
(1,424)	1:A:107:ARG:HG2	1:A:107:ARG:HA	3	0.14	0.01	0.14
(1,424)	1:A:107:ARG:HG3	1:A:107:ARG:HA	3	0.14	0.01	0.14
(1,1291)	1:B:107:ARG:HG2	1:B:107:ARG:HA	3	0.14	0.01	0.14
(1,1291)	1:B:107:ARG:HG3	1:B:107:ARG:HA	3	0.14	0.01	0.14
(1,596)	1:A:122:TYR:HA	1:A:122:TYR:H	3	0.14	0.01	0.14
(1,1463)	1:B:122:TYR:HA	1:B:122:TYR:H	3	0.14	0.01	0.14
(1,374)	1:A:101:HIS:HB2	1:A:101:HIS:HA	3	0.13	0.0	0.13
(1,375)	1:A:101:HIS:HB2	1:A:101:HIS:HA	3	0.13	0.0	0.13
(1,1241)	1:B:101:HIS:HB2	1:B:101:HIS:HA	3	0.13	0.0	0.13
(1,1242)	1:B:101:HIS:HB2	1:B:101:HIS:HA	3	0.13	0.0	0.13
(1,123)	1:A:78:ASN:HB3	1:A:78:ASN:H	3	0.13	0.01	0.12
(1,990)	1:B:78:ASN:HB3	1:B:78:ASN:H	3	0.13	0.01	0.12
(1,532)	1:A:115:SER:HB3	1:A:116:ARG:H	3	0.12	0.01	0.12
(1,1054)	1:B:83:HIS:HB3	1:B:104:HIS:HD2	2	1.48	0.03	1.48
(1,187)	1:A:83:HIS:HB3	1:A:104:HIS:HD2	2	1.48	0.04	1.48
(1,523)	1:A:115:SER:HB3	1:A:106:GLU:H	2	1.4	0.92	1.4
(1,1390)	1:B:115:SER:HB3	1:B:106:GLU:H	2	1.4	0.92	1.4
(1,98)	1:A:77:VAL:HG11	1:A:77:VAL:H	2	1.3	0.08	1.3
(1,98)	1:A:77:VAL:HG12	1:A:77:VAL:H	2	1.3	0.08	1.3
(1,98)	1:A:77:VAL:HG13	1:A:77:VAL:H	2	1.3	0.08	1.3
(1,965)	1:B:77:VAL:HG11	1:B:77:VAL:H	2	1.3	0.08	1.3
(1,965)	1:B:77:VAL:HG12	1:B:77:VAL:H	2	1.3	0.08	1.3
(1,965)	1:B:77:VAL:HG13	1:B:77:VAL:H	2	1.3	0.08	1.3
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD11	2	1.08	0.03	1.08
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD12	2	1.08	0.03	1.08
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD13	2	1.08	0.03	1.08
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD11	2	0.96	0.1	0.96
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD12	2	0.96	0.1	0.96
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD13	2	0.96	0.1	0.96
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD11	2	0.96	0.1	0.96
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD12	2	0.96	0.1	0.96
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD13	2	0.96	0.1	0.96
(1,139)	1:A:79:LEU:HD11	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,139)	1:A:79:LEU:HD12	1:A:79:LEU:H	2	0.96	0.02	0.96

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,139)	1:A:79:LEU:HD13	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,139)	1:A:79:LEU:HD21	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,139)	1:A:79:LEU:HD22	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,139)	1:A:79:LEU:HD23	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,140)	1:A:79:LEU:HD11	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,140)	1:A:79:LEU:HD12	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,140)	1:A:79:LEU:HD13	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,140)	1:A:79:LEU:HD21	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,140)	1:A:79:LEU:HD22	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,140)	1:A:79:LEU:HD23	1:A:79:LEU:H	2	0.96	0.02	0.96
(1,1006)	1:B:79:LEU:HD11	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1006)	1:B:79:LEU:HD12	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1006)	1:B:79:LEU:HD13	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1006)	1:B:79:LEU:HD21	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1006)	1:B:79:LEU:HD22	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1006)	1:B:79:LEU:HD23	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1007)	1:B:79:LEU:HD11	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1007)	1:B:79:LEU:HD12	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1007)	1:B:79:LEU:HD13	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1007)	1:B:79:LEU:HD21	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1007)	1:B:79:LEU:HD22	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,1007)	1:B:79:LEU:HD23	1:B:79:LEU:H	2	0.95	0.02	0.95
(1,504)	1:A:114:ILE:HD11	1:A:107:ARG:HD2	2	0.87	0.04	0.87
(1,504)	1:A:114:ILE:HD12	1:A:107:ARG:HD2	2	0.87	0.04	0.87
(1,504)	1:A:114:ILE:HD13	1:A:107:ARG:HD2	2	0.87	0.04	0.87
(1,509)	1:A:114:ILE:HG21	1:A:109:ASP:H	2	0.86	0.4	0.86
(1,509)	1:A:114:ILE:HG22	1:A:109:ASP:H	2	0.86	0.4	0.86
(1,509)	1:A:114:ILE:HG23	1:A:109:ASP:H	2	0.86	0.4	0.86
(1,1371)	1:B:114:ILE:HD11	1:B:107:ARG:HD2	2	0.86	0.05	0.86
(1,1371)	1:B:114:ILE:HD12	1:B:107:ARG:HD2	2	0.86	0.05	0.86
(1,1371)	1:B:114:ILE:HD13	1:B:107:ARG:HD2	2	0.86	0.05	0.86
(1,1376)	1:B:114:ILE:HG21	1:B:109:ASP:H	2	0.86	0.4	0.86
(1,1376)	1:B:114:ILE:HG22	1:B:109:ASP:H	2	0.86	0.4	0.86
(1,1376)	1:B:114:ILE:HG23	1:B:109:ASP:H	2	0.86	0.4	0.86
(1,727)	1:A:133:ILE:HG21	1:A:145:VAL:HB	2	0.84	0.52	0.84
(1,727)	1:A:133:ILE:HG22	1:A:145:VAL:HB	2	0.84	0.52	0.84
(1,727)	1:A:133:ILE:HG23	1:A:145:VAL:HB	2	0.84	0.52	0.84
(1,1594)	1:B:133:ILE:HG21	1:B:145:VAL:HB	2	0.83	0.52	0.83
(1,1594)	1:B:133:ILE:HG22	1:B:145:VAL:HB	2	0.83	0.52	0.83
(1,1594)	1:B:133:ILE:HG23	1:B:145:VAL:HB	2	0.83	0.52	0.83
(1,186)	1:A:83:HIS:HB2	1:A:104:HIS:HB2	2	0.8	0.65	0.8
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG11	2	0.8	0.02	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG12	2	0.8	0.02	0.8
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG13	2	0.8	0.02	0.8
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG11	2	0.8	0.02	0.8
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG12	2	0.8	0.02	0.8
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG13	2	0.8	0.02	0.8
(1,1053)	1:B:83:HIS:HB2	1:B:104:HIS:HB2	2	0.8	0.66	0.8
(1,449)	1:A:109:ASP:HA	1:A:111:HIS:H	2	0.75	0.02	0.75
(1,723)	1:A:133:ILE:HG21	1:A:133:ILE:H	2	0.75	0.02	0.75
(1,723)	1:A:133:ILE:HG22	1:A:133:ILE:H	2	0.75	0.02	0.75
(1,723)	1:A:133:ILE:HG23	1:A:133:ILE:H	2	0.75	0.02	0.75
(1,1316)	1:B:109:ASP:HA	1:B:111:HIS:H	2	0.75	0.02	0.75
(1,1590)	1:B:133:ILE:HG21	1:B:133:ILE:H	2	0.74	0.02	0.74
(1,1590)	1:B:133:ILE:HG22	1:B:133:ILE:H	2	0.74	0.02	0.74
(1,1590)	1:B:133:ILE:HG23	1:B:133:ILE:H	2	0.74	0.02	0.74
(1,686)	1:A:129:ASP:H	1:A:132:THR:HG1	2	0.71	0.22	0.71
(1,571)	1:A:119:HIS:HA	1:A:101:HIS:HD2	2	0.69	0.23	0.69
(1,699)	1:A:132:THR:HG1	1:A:132:THR:H	2	0.69	0.05	0.69
(1,1438)	1:B:119:HIS:HA	1:B:101:HIS:HD2	2	0.68	0.24	0.68
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD11	2	0.66	0.1	0.66
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD12	2	0.66	0.1	0.66
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD13	2	0.66	0.1	0.66
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD11	2	0.66	0.09	0.66
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD12	2	0.66	0.09	0.66
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD13	2	0.66	0.09	0.66
(1,1739)	1:A:111:HIS:HA	1:B:122:TYR:HE1	2	0.59	0.21	0.59
(1,1739)	1:A:111:HIS:HA	1:B:122:TYR:HE2	2	0.59	0.21	0.59
(1,1749)	1:A:115:SER:HB3	1:B:119:HIS:HE1	2	0.57	0.35	0.57
(1,200)	1:A:84:PHE:HD1	1:A:85:SER:H	2	0.56	0.2	0.56
(1,200)	1:A:84:PHE:HD2	1:A:85:SER:H	2	0.56	0.2	0.56
(1,547)	1:A:117:GLU:H	1:A:117:GLU:HG2	2	0.56	0.12	0.56
(1,547)	1:A:117:GLU:H	1:A:117:GLU:HG3	2	0.56	0.12	0.56
(1,1067)	1:B:84:PHE:HD1	1:B:85:SER:H	2	0.56	0.2	0.56
(1,1067)	1:B:84:PHE:HD2	1:B:85:SER:H	2	0.56	0.2	0.56
(1,1414)	1:B:117:GLU:H	1:B:117:GLU:HG2	2	0.56	0.12	0.56
(1,1414)	1:B:117:GLU:H	1:B:117:GLU:HG3	2	0.56	0.12	0.56
(1,171)	1:A:83:HIS:H	1:A:82:LYS:HG2	2	0.52	0.05	0.52
(1,171)	1:A:83:HIS:H	1:A:82:LYS:HG3	2	0.52	0.05	0.52
(1,1038)	1:B:83:HIS:H	1:B:82:LYS:HG2	2	0.52	0.05	0.52
(1,1038)	1:B:83:HIS:H	1:B:82:LYS:HG3	2	0.52	0.05	0.52
(1,1738)	1:A:111:HIS:HA	1:B:122:TYR:HD1	2	0.5	0.15	0.5
(1,1738)	1:A:111:HIS:HA	1:B:122:TYR:HD2	2	0.5	0.15	0.5
(1,172)	1:A:83:HIS:HA	1:A:83:HIS:HB2	2	0.49	0.02	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,177)	1:A:83:HIS:HA	1:A:83:HIS:HB2	2	0.49	0.02	0.49
(1,1039)	1:B:83:HIS:HA	1:B:83:HIS:HB2	2	0.49	0.02	0.49
(1,1044)	1:B:83:HIS:HA	1:B:83:HIS:HB2	2	0.49	0.02	0.49
(1,592)	1:A:122:TYR:HA	1:A:122:TYR:HD1	2	0.47	0.23	0.47
(1,592)	1:A:122:TYR:HA	1:A:122:TYR:HD2	2	0.47	0.23	0.47
(1,1459)	1:B:122:TYR:HA	1:B:122:TYR:HD1	2	0.47	0.23	0.47
(1,1459)	1:B:122:TYR:HA	1:B:122:TYR:HD2	2	0.47	0.23	0.47
(1,179)	1:A:83:HIS:HA	1:A:83:HIS:H	2	0.46	0.0	0.46
(1,1046)	1:B:83:HIS:HA	1:B:83:HIS:H	2	0.46	0.0	0.46
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG11	2	0.44	0.31	0.44
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG12	2	0.44	0.31	0.44
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG13	2	0.44	0.31	0.44
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG21	2	0.44	0.31	0.44
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG22	2	0.44	0.31	0.44
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG23	2	0.44	0.31	0.44
(1,828)	1:A:146:ASP:H	1:A:134:THR:H	2	0.44	0.16	0.44
(1,829)	1:A:146:ASP:H	1:A:134:THR:H	2	0.44	0.16	0.44
(1,1695)	1:B:146:ASP:H	1:B:134:THR:H	2	0.44	0.16	0.44
(1,1696)	1:B:146:ASP:H	1:B:134:THR:H	2	0.44	0.16	0.44
(1,810)	1:A:144:THR:HG21	1:A:146:ASP:HB2	2	0.43	0.18	0.43
(1,810)	1:A:144:THR:HG22	1:A:146:ASP:HB2	2	0.43	0.18	0.43
(1,810)	1:A:144:THR:HG23	1:A:146:ASP:HB2	2	0.43	0.18	0.43
(1,1677)	1:B:144:THR:HG21	1:B:146:ASP:HB2	2	0.43	0.18	0.43
(1,1677)	1:B:144:THR:HG22	1:B:146:ASP:HB2	2	0.43	0.18	0.43
(1,1677)	1:B:144:THR:HG23	1:B:146:ASP:HB2	2	0.43	0.18	0.43
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE1	2	0.4	0.08	0.4
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE2	2	0.4	0.08	0.4
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE3	2	0.4	0.08	0.4
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE1	2	0.4	0.08	0.4
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE2	2	0.4	0.08	0.4
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE3	2	0.4	0.08	0.4
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE1	2	0.4	0.08	0.4
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE2	2	0.4	0.08	0.4
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE3	2	0.4	0.08	0.4
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE1	2	0.4	0.08	0.4
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE2	2	0.4	0.08	0.4
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE3	2	0.4	0.08	0.4
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE1	2	0.4	0.08	0.4
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE2	2	0.4	0.08	0.4
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE3	2	0.4	0.08	0.4
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE1	2	0.4	0.08	0.4
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE2	2	0.4	0.08	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE3	2	0.4	0.08	0.4
(1,1553)	1:B:129:ASP:H	1:B:132:THR:HG1	2	0.4	0.14	0.4
(1,580)	1:A:120:ARG:H	1:A:100:VAL:H	2	0.39	0.18	0.39
(1,713)	1:A:133:ILE:HD11	1:A:130:PRO:HB2	2	0.39	0.28	0.39
(1,713)	1:A:133:ILE:HD11	1:A:130:PRO:HB3	2	0.39	0.28	0.39
(1,713)	1:A:133:ILE:HD12	1:A:130:PRO:HB2	2	0.39	0.28	0.39
(1,713)	1:A:133:ILE:HD12	1:A:130:PRO:HB3	2	0.39	0.28	0.39
(1,713)	1:A:133:ILE:HD13	1:A:130:PRO:HB2	2	0.39	0.28	0.39
(1,713)	1:A:133:ILE:HD13	1:A:130:PRO:HB3	2	0.39	0.28	0.39
(1,1447)	1:B:120:ARG:H	1:B:100:VAL:H	2	0.39	0.17	0.39
(1,320)	1:A:96:ASP:HA	1:A:124:ILE:H	2	0.38	0.14	0.38
(1,1187)	1:B:96:ASP:HA	1:B:124:ILE:H	2	0.38	0.14	0.38
(1,137)	1:A:79:LEU:HA	1:A:79:LEU:HG	2	0.37	0.0	0.37
(1,1004)	1:B:79:LEU:HA	1:B:79:LEU:HG	2	0.37	0.0	0.37
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG21	2	0.36	0.05	0.36
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG22	2	0.36	0.05	0.36
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG23	2	0.36	0.05	0.36
(1,715)	1:A:133:ILE:HD11	1:A:130:PRO:HG2	2	0.36	0.12	0.36
(1,715)	1:A:133:ILE:HD11	1:A:130:PRO:HG3	2	0.36	0.12	0.36
(1,715)	1:A:133:ILE:HD12	1:A:130:PRO:HG2	2	0.36	0.12	0.36
(1,715)	1:A:133:ILE:HD12	1:A:130:PRO:HG3	2	0.36	0.12	0.36
(1,715)	1:A:133:ILE:HD13	1:A:130:PRO:HG2	2	0.36	0.12	0.36
(1,715)	1:A:133:ILE:HD13	1:A:130:PRO:HG3	2	0.36	0.12	0.36
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG21	2	0.36	0.05	0.36
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG22	2	0.36	0.05	0.36
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG23	2	0.36	0.05	0.36
(1,1043)	1:B:83:HIS:HB3	1:B:83:HIS:HD2	2	0.36	0.16	0.36
(1,1582)	1:B:133:ILE:HD11	1:B:130:PRO:HG2	2	0.36	0.12	0.36
(1,1582)	1:B:133:ILE:HD11	1:B:130:PRO:HG3	2	0.36	0.12	0.36
(1,1582)	1:B:133:ILE:HD12	1:B:130:PRO:HG2	2	0.36	0.12	0.36
(1,1582)	1:B:133:ILE:HD12	1:B:130:PRO:HG3	2	0.36	0.12	0.36
(1,1582)	1:B:133:ILE:HD13	1:B:130:PRO:HG2	2	0.36	0.12	0.36
(1,1582)	1:B:133:ILE:HD13	1:B:130:PRO:HG3	2	0.36	0.12	0.36
(1,8)	1:A:68:MET:HG2	1:A:68:MET:H	2	0.34	0.13	0.34
(1,8)	1:A:68:MET:HG3	1:A:68:MET:H	2	0.34	0.13	0.34
(1,875)	1:B:68:MET:HG2	1:B:68:MET:H	2	0.34	0.13	0.34
(1,875)	1:B:68:MET:HG3	1:B:68:MET:H	2	0.34	0.13	0.34
(1,404)	1:A:104:HIS:HB3	1:A:104:HIS:HA	2	0.34	0.08	0.34
(1,405)	1:A:104:HIS:HB3	1:A:104:HIS:HA	2	0.34	0.08	0.34
(1,1271)	1:B:104:HIS:HB3	1:B:104:HIS:HA	2	0.34	0.08	0.34
(1,1272)	1:B:104:HIS:HB3	1:B:104:HIS:HA	2	0.34	0.08	0.34
(1,464)	1:A:111:HIS:H	1:A:111:HIS:HD2	2	0.34	0.13	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,59)	1:A:76:SER:HB2	1:A:75:PHE:HD1	2	0.33	0.18	0.33
(1,59)	1:A:76:SER:HB2	1:A:75:PHE:HD2	2	0.33	0.18	0.33
(1,926)	1:B:76:SER:HB2	1:B:75:PHE:HD1	2	0.33	0.18	0.33
(1,926)	1:B:76:SER:HB2	1:B:75:PHE:HD2	2	0.33	0.18	0.33
(1,189)	1:A:84:PHE:H	1:A:81:VAL:HB	2	0.32	0.09	0.32
(1,553)	1:A:118:PHE:HD1	1:A:103:LYS:H	2	0.32	0.18	0.32
(1,553)	1:A:118:PHE:HD2	1:A:103:LYS:H	2	0.32	0.18	0.32
(1,1056)	1:B:84:PHE:H	1:B:81:VAL:HB	2	0.32	0.09	0.32
(1,1420)	1:B:118:PHE:HD1	1:B:103:LYS:H	2	0.32	0.19	0.32
(1,1420)	1:B:118:PHE:HD2	1:B:103:LYS:H	2	0.32	0.19	0.32
(1,176)	1:A:83:HIS:HB3	1:A:83:HIS:HD2	2	0.32	0.12	0.32
(1,1580)	1:B:133:ILE:HD11	1:B:130:PRO:HB2	2	0.3	0.2	0.3
(1,1580)	1:B:133:ILE:HD11	1:B:130:PRO:HB3	2	0.3	0.2	0.3
(1,1580)	1:B:133:ILE:HD12	1:B:130:PRO:HB2	2	0.3	0.2	0.3
(1,1580)	1:B:133:ILE:HD12	1:B:130:PRO:HB3	2	0.3	0.2	0.3
(1,1580)	1:B:133:ILE:HD13	1:B:130:PRO:HB2	2	0.3	0.2	0.3
(1,1580)	1:B:133:ILE:HD13	1:B:130:PRO:HB3	2	0.3	0.2	0.3
(1,729)	1:A:134:THR:H	1:A:134:THR:HG21	2	0.3	0.03	0.3
(1,729)	1:A:134:THR:H	1:A:134:THR:HG22	2	0.3	0.03	0.3
(1,729)	1:A:134:THR:H	1:A:134:THR:HG23	2	0.3	0.03	0.3
(1,392)	1:A:102:GLY:H	1:A:118:PHE:H	2	0.28	0.08	0.28
(1,1259)	1:B:102:GLY:H	1:B:118:PHE:H	2	0.28	0.08	0.28
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG21	2	0.28	0.02	0.28
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG22	2	0.28	0.02	0.28
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG23	2	0.28	0.02	0.28
(1,399)	1:A:103:LYS:HA	1:A:118:PHE:H	2	0.26	0.03	0.26
(1,1266)	1:B:103:LYS:HA	1:B:118:PHE:H	2	0.26	0.03	0.26
(1,292)	1:A:94:LEU:HD11	1:A:95:GLY:H	2	0.24	0.03	0.24
(1,292)	1:A:94:LEU:HD12	1:A:95:GLY:H	2	0.24	0.03	0.24
(1,292)	1:A:94:LEU:HD13	1:A:95:GLY:H	2	0.24	0.03	0.24
(1,292)	1:A:94:LEU:HD21	1:A:95:GLY:H	2	0.24	0.03	0.24
(1,292)	1:A:94:LEU:HD22	1:A:95:GLY:H	2	0.24	0.03	0.24
(1,292)	1:A:94:LEU:HD23	1:A:95:GLY:H	2	0.24	0.03	0.24
(1,1159)	1:B:94:LEU:HD11	1:B:95:GLY:H	2	0.24	0.03	0.24
(1,1159)	1:B:94:LEU:HD12	1:B:95:GLY:H	2	0.24	0.03	0.24
(1,1159)	1:B:94:LEU:HD13	1:B:95:GLY:H	2	0.24	0.03	0.24
(1,1159)	1:B:94:LEU:HD21	1:B:95:GLY:H	2	0.24	0.03	0.24
(1,1159)	1:B:94:LEU:HD22	1:B:95:GLY:H	2	0.24	0.03	0.24
(1,1159)	1:B:94:LEU:HD23	1:B:95:GLY:H	2	0.24	0.03	0.24
(1,164)	1:A:81:VAL:HG21	1:A:84:PHE:H	2	0.24	0.04	0.24
(1,164)	1:A:81:VAL:HG22	1:A:84:PHE:H	2	0.24	0.04	0.24
(1,164)	1:A:81:VAL:HG23	1:A:84:PHE:H	2	0.24	0.04	0.24

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Key	Atom-1	Atom-2	Models^{1}	Mean (Å)	SD^{1} (Å)	Median (Å)
(1,1031)	1:B:81:VAL:HG21	1:B:84:PHE:H	2	0.24	0.04	0.24
(1,1031)	1:B:81:VAL:HG22	1:B:84:PHE:H	2	0.24	0.04	0.24
(1,1031)	1:B:81:VAL:HG23	1:B:84:PHE:H	2	0.24	0.04	0.24
(1,838)	1:A:146:ASP:HB3	1:A:146:ASP:H	2	0.24	0.1	0.24
(1,1705)	1:B:146:ASP:HB3	1:B:146:ASP:H	2	0.24	0.1	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD11	2	0.24	0.0	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD12	2	0.24	0.0	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD13	2	0.24	0.0	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD21	2	0.24	0.0	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD22	2	0.24	0.0	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD23	2	0.24	0.0	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD11	2	0.24	0.0	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD12	2	0.24	0.0	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD13	2	0.24	0.0	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD21	2	0.24	0.0	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD22	2	0.24	0.0	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD23	2	0.24	0.0	0.24
(1,54)	1:A:75:PHE:HD1	1:A:146:ASP:HB3	2	0.23	0.05	0.23
(1,54)	1:A:75:PHE:HD2	1:A:146:ASP:HB3	2	0.23	0.05	0.23
(1,921)	1:B:75:PHE:HD1	1:B:146:ASP:HB3	2	0.23	0.05	0.23
(1,921)	1:B:75:PHE:HD2	1:B:146:ASP:HB3	2	0.23	0.05	0.23
(1,777)	1:A:142:VAL:H	1:A:141:GLY:H	2	0.23	0.08	0.23
(1,778)	1:A:142:VAL:H	1:A:141:GLY:H	2	0.23	0.08	0.23
(1,21)	1:A:70:LEU:HD11	1:A:71:GLU:H	2	0.22	0.1	0.22
(1,21)	1:A:70:LEU:HD12	1:A:71:GLU:H	2	0.22	0.1	0.22
(1,21)	1:A:70:LEU:HD13	1:A:71:GLU:H	2	0.22	0.1	0.22
(1,21)	1:A:70:LEU:HD21	1:A:71:GLU:H	2	0.22	0.1	0.22
(1,21)	1:A:70:LEU:HD22	1:A:71:GLU:H	2	0.22	0.1	0.22
(1,21)	1:A:70:LEU:HD23	1:A:71:GLU:H	2	0.22	0.1	0.22
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD11	2	0.22	0.04	0.22
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD12	2	0.22	0.04	0.22
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD13	2	0.22	0.04	0.22
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD21	2	0.22	0.04	0.22
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD22	2	0.22	0.04	0.22
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD23	2	0.22	0.04	0.22
(1,888)	1:B:70:LEU:HD11	1:B:71:GLU:H	2	0.22	0.1	0.22
(1,888)	1:B:70:LEU:HD12	1:B:71:GLU:H	2	0.22	0.1	0.22
(1,888)	1:B:70:LEU:HD13	1:B:71:GLU:H	2	0.22	0.1	0.22
(1,888)	1:B:70:LEU:HD21	1:B:71:GLU:H	2	0.22	0.1	0.22
(1,888)	1:B:70:LEU:HD22	1:B:71:GLU:H	2	0.22	0.1	0.22
(1,888)	1:B:70:LEU:HD23	1:B:71:GLU:H	2	0.22	0.1	0.22
(1,1644)	1:B:142:VAL:H	1:B:141:GLY:H	2	0.22	0.08	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1645)	1:B:142:VAL:H	1:B:141:GLY:H	2	0.22	0.08	0.22
(1,760)	1:A:138:SER:H	1:A:142:VAL:H	2	0.22	0.08	0.22
(1,763)	1:A:138:SER:H	1:A:142:VAL:H	2	0.22	0.08	0.22
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD11	2	0.22	0.04	0.22
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD12	2	0.22	0.04	0.22
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD13	2	0.22	0.04	0.22
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD21	2	0.22	0.04	0.22
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD22	2	0.22	0.04	0.22
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD23	2	0.22	0.04	0.22
(1,1627)	1:B:138:SER:H	1:B:142:VAL:H	2	0.22	0.08	0.22
(1,1630)	1:B:138:SER:H	1:B:142:VAL:H	2	0.22	0.08	0.22
(1,1528)	1:B:126:ALA:HB1	1:B:128:VAL:H	2	0.22	0.1	0.22
(1,1528)	1:B:126:ALA:HB2	1:B:128:VAL:H	2	0.22	0.1	0.22
(1,1528)	1:B:126:ALA:HB3	1:B:128:VAL:H	2	0.22	0.1	0.22
(1,785)	1:A:142:VAL:HG11	1:A:143:LEU:H	2	0.21	0.05	0.21
(1,785)	1:A:142:VAL:HG12	1:A:143:LEU:H	2	0.21	0.05	0.21
(1,785)	1:A:142:VAL:HG13	1:A:143:LEU:H	2	0.21	0.05	0.21
(1,785)	1:A:142:VAL:HG21	1:A:143:LEU:H	2	0.21	0.05	0.21
(1,785)	1:A:142:VAL:HG22	1:A:143:LEU:H	2	0.21	0.05	0.21
(1,785)	1:A:142:VAL:HG23	1:A:143:LEU:H	2	0.21	0.05	0.21
(1,661)	1:A:126:ALA:HB1	1:A:128:VAL:H	2	0.21	0.1	0.21
(1,661)	1:A:126:ALA:HB2	1:A:128:VAL:H	2	0.21	0.1	0.21
(1,661)	1:A:126:ALA:HB3	1:A:128:VAL:H	2	0.21	0.1	0.21
(1,705)	1:A:132:THR:HG1	1:A:133:ILE:H	2	0.2	0.03	0.2
(1,1652)	1:B:142:VAL:HG11	1:B:143:LEU:H	2	0.2	0.06	0.2
(1,1652)	1:B:142:VAL:HG12	1:B:143:LEU:H	2	0.2	0.06	0.2
(1,1652)	1:B:142:VAL:HG13	1:B:143:LEU:H	2	0.2	0.06	0.2
(1,1652)	1:B:142:VAL:HG21	1:B:143:LEU:H	2	0.2	0.06	0.2
(1,1652)	1:B:142:VAL:HG22	1:B:143:LEU:H	2	0.2	0.06	0.2
(1,1652)	1:B:142:VAL:HG23	1:B:143:LEU:H	2	0.2	0.06	0.2
(1,168)	1:A:81:VAL:HG21	1:A:143:LEU:HA	2	0.2	0.03	0.2
(1,168)	1:A:81:VAL:HG22	1:A:143:LEU:HA	2	0.2	0.03	0.2
(1,168)	1:A:81:VAL:HG23	1:A:143:LEU:HA	2	0.2	0.03	0.2
(1,419)	1:A:105:GLU:HA	1:A:116:ARG:H	2	0.2	0.08	0.2
(1,1035)	1:B:81:VAL:HG21	1:B:143:LEU:HA	2	0.2	0.03	0.2
(1,1035)	1:B:81:VAL:HG22	1:B:143:LEU:HA	2	0.2	0.03	0.2
(1,1035)	1:B:81:VAL:HG23	1:B:143:LEU:HA	2	0.2	0.03	0.2
(1,1286)	1:B:105:GLU:HA	1:B:116:ARG:H	2	0.2	0.08	0.2
(1,675)	1:A:128:VAL:H	1:A:126:ALA:H	2	0.2	0.04	0.2
(1,1542)	1:B:128:VAL:H	1:B:126:ALA:H	2	0.2	0.04	0.2
(1,1661)	1:B:144:THR:HG21	1:B:78:ASN:HA	2	0.18	0.01	0.18
(1,1661)	1:B:144:THR:HG22	1:B:78:ASN:HA	2	0.18	0.01	0.18

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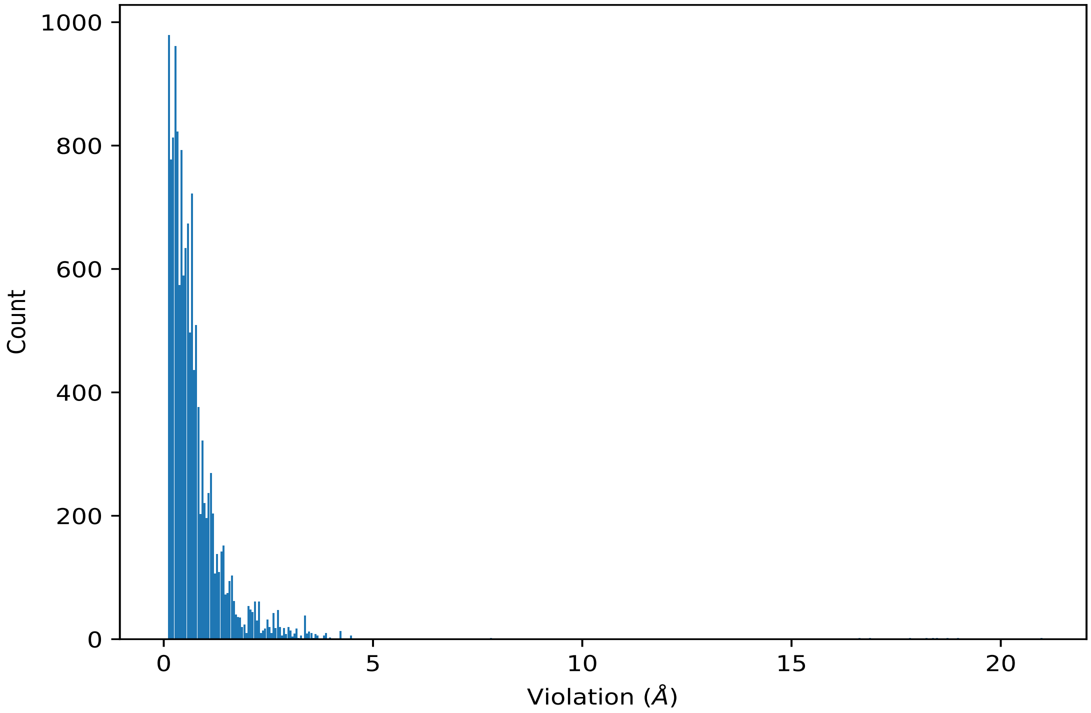
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1661)	1:B:144:THR:HG23	1:B:78:ASN:HA	2	0.18	0.01	0.18
(1,293)	1:A:94:LEU:H	1:A:95:GLY:H	2	0.18	0.03	0.18
(1,1160)	1:B:94:LEU:H	1:B:95:GLY:H	2	0.18	0.03	0.18
(1,1744)	1:A:114:ILE:HA	1:B:120:ARG:HB2	2	0.17	0.05	0.17
(1,1744)	1:A:114:ILE:HA	1:B:120:ARG:HB3	2	0.17	0.05	0.17
(1,533)	1:A:115:SER:HB2	1:A:116:ARG:H	2	0.16	0.02	0.16
(1,1400)	1:B:115:SER:HB2	1:B:116:ARG:H	2	0.16	0.02	0.16
(1,1045)	1:B:83:HIS:HB3	1:B:83:HIS:H	2	0.16	0.01	0.16
(1,1572)	1:B:132:THR:HG1	1:B:133:ILE:H	2	0.16	0.05	0.16
(1,178)	1:A:83:HIS:HB3	1:A:83:HIS:H	2	0.16	0.01	0.16
(1,802)	1:A:144:THR:HB	1:A:144:THR:H	2	0.16	0.02	0.16
(1,1669)	1:B:144:THR:HB	1:B:144:THR:H	2	0.16	0.02	0.16
(1,521)	1:A:115:SER:HB2	1:A:105:GLU:HB2	2	0.15	0.0	0.15
(1,521)	1:A:115:SER:HB2	1:A:105:GLU:HB3	2	0.15	0.0	0.15
(1,1388)	1:B:115:SER:HB2	1:B:105:GLU:HB2	2	0.15	0.0	0.15
(1,1388)	1:B:115:SER:HB2	1:B:105:GLU:HB3	2	0.15	0.0	0.15
(1,853)	1:A:148:PRO:HA	1:A:148:PRO:HG2	2	0.14	0.0	0.14
(1,853)	1:A:148:PRO:HA	1:A:148:PRO:HG3	2	0.14	0.0	0.14
(1,1720)	1:B:148:PRO:HA	1:B:148:PRO:HG2	2	0.14	0.01	0.14
(1,1720)	1:B:148:PRO:HA	1:B:148:PRO:HG3	2	0.14	0.01	0.14
(1,541)	1:A:117:GLU:HA	1:A:103:LYS:HG2	2	0.13	0.0	0.13
(1,541)	1:A:117:GLU:HA	1:A:103:LYS:HG3	2	0.13	0.0	0.13
(1,542)	1:A:117:GLU:HA	1:A:103:LYS:HD2	2	0.13	0.02	0.13
(1,542)	1:A:117:GLU:HA	1:A:103:LYS:HD3	2	0.13	0.02	0.13
(1,737)	1:A:135:SER:HA	1:A:136:SER:H	2	0.13	0.02	0.13
(1,1408)	1:B:117:GLU:HA	1:B:103:LYS:HG2	2	0.13	0.0	0.13
(1,1408)	1:B:117:GLU:HA	1:B:103:LYS:HG3	2	0.13	0.0	0.13
(1,1409)	1:B:117:GLU:HA	1:B:103:LYS:HD2	2	0.13	0.02	0.13
(1,1409)	1:B:117:GLU:HA	1:B:103:LYS:HD3	2	0.13	0.02	0.13
(1,1604)	1:B:135:SER:HA	1:B:136:SER:H	2	0.13	0.02	0.13

[1]Number of violated models, [2]Standard deviation

9.5 All violated distance restraints ⓘ

9.5.1 Histogram : Distribution of distance violations ⓘ

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 ⓘ

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)
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	2	20.97
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	2	20.97
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	7	18.97
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	7	18.97
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	3	18.73
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	3	18.73
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	8	18.48
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	8	18.48
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	1	18.39
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	1	18.39
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	4	18.24
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	4	18.24
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	9	17.84
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	9	17.84
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	6	16.85
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	6	16.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1769)	1:A:122:TYR:HD1	1:B:121:LYS:H	5	16.6
(1,1769)	1:A:122:TYR:HD2	1:B:121:LYS:H	5	16.6
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	5	8.53
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	8	7.99
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	6	7.81
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	7	7.81
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	4	7.47
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	2	7.44
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	9	7.31
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	3	7.21
(1,1741)	1:A:114:ILE:HA	1:B:116:ARG:HA	1	6.48
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	8	4.46
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	8	4.46
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	8	4.46
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	8	4.46
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	8	4.46
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	8	4.46
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	4	4.28
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	7	4.23
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	2	4.21
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	2	4.21
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	2	4.21
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	7	4.21
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	7	4.21
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	7	4.21
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	2	4.21
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	2	4.21
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	2	4.21
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	7	4.21
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	7	4.21
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	7	4.21
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	5	3.98
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	5	3.98
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	5	3.97
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	3	3.9
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	3	3.9
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	2	3.86
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	2	3.86
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	2	3.86
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	2	3.86
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	2	3.86
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	2	3.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	8	3.85
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	8	3.85
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	9	3.81
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	9	3.81
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	9	3.81
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	9	3.81
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	9	3.81
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	9	3.81
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	4	3.69
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	4	3.69
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	4	3.69
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	4	3.68
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	4	3.68
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	4	3.68
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	5	3.62
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	5	3.62
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	5	3.62
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	5	3.62
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	5	3.62
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	5	3.62
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	2	3.61
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	2	3.61
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	7	3.57
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	7	3.57
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	6	3.55
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	7	3.55
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	6	3.55
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	7	3.55
(1,151)	1:A:81:VAL:HG11	1:A:79:LEU:HG	4	3.5
(1,151)	1:A:81:VAL:HG12	1:A:79:LEU:HG	4	3.5
(1,151)	1:A:81:VAL:HG13	1:A:79:LEU:HG	4	3.5
(1,1018)	1:B:81:VAL:HG11	1:B:79:LEU:HG	4	3.5
(1,1018)	1:B:81:VAL:HG12	1:B:79:LEU:HG	4	3.5
(1,1018)	1:B:81:VAL:HG13	1:B:79:LEU:HG	4	3.5
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	6	3.48
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	6	3.48
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	6	3.48
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	6	3.47
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	6	3.47
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	6	3.47
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	2	3.45
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	2	3.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	2	3.45
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	2	3.45
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	2	3.45
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	2	3.45
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	1	3.43
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	7	3.43
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	7	3.43
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	7	3.43
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	7	3.43
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	7	3.43
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	7	3.43
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	1	3.43
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	9	3.42
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	2	3.38
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	2	3.38
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	2	3.38
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	2	3.38
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	2	3.38
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	2	3.38
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	1	3.37
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	1	3.37
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	1	3.37
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	3	3.37
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	3	3.37
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	3	3.37
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	3	3.37
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	3	3.37
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	3	3.37
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD1	8	3.37
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD2	8	3.37
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD1	8	3.37
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD2	8	3.37
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD1	8	3.37
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD2	8	3.37
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	1	3.37
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	1	3.37
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	1	3.37
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD1	8	3.37
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD2	8	3.37
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD1	8	3.37
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD2	8	3.37
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD1	8	3.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD2	8	3.37
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	5	3.35
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	5	3.35
(1,151)	1:A:81:VAL:HG11	1:A:79:LEU:HG	7	3.35
(1,151)	1:A:81:VAL:HG12	1:A:79:LEU:HG	7	3.35
(1,151)	1:A:81:VAL:HG13	1:A:79:LEU:HG	7	3.35
(1,1018)	1:B:81:VAL:HG11	1:B:79:LEU:HG	7	3.35
(1,1018)	1:B:81:VAL:HG12	1:B:79:LEU:HG	7	3.35
(1,1018)	1:B:81:VAL:HG13	1:B:79:LEU:HG	7	3.35
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	2	3.29
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	2	3.28
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	9	3.27
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	9	3.27
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	6	3.26
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	6	3.26
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	4	3.22
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	4	3.22
(1,151)	1:A:81:VAL:HG11	1:A:79:LEU:HG	1	3.18
(1,151)	1:A:81:VAL:HG12	1:A:79:LEU:HG	1	3.18
(1,151)	1:A:81:VAL:HG13	1:A:79:LEU:HG	1	3.18
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	9	3.18
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	9	3.18
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	9	3.18
(1,1018)	1:B:81:VAL:HG11	1:B:79:LEU:HG	1	3.18
(1,1018)	1:B:81:VAL:HG12	1:B:79:LEU:HG	1	3.18
(1,1018)	1:B:81:VAL:HG13	1:B:79:LEU:HG	1	3.18
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	9	3.17
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	9	3.17
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	9	3.17
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	2	3.16
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	5	3.16
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	5	3.16
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	5	3.16
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	2	3.16
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	5	3.15
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	5	3.15
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	5	3.15
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	7	3.15
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	7	3.15
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	5	3.12
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	5	3.12
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	7	3.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	7	3.1
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	6	3.09
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	6	3.09
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	9	3.08
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	9	3.08
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD1	6	3.04
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD2	6	3.04
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD1	6	3.04
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD2	6	3.04
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD1	6	3.04
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD2	6	3.04
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD1	6	3.04
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD2	6	3.04
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD1	6	3.04
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD2	6	3.04
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD1	6	3.04
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD2	6	3.04
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	8	3.0
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	8	3.0
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	7	2.99
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	7	2.99
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	7	2.99
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	7	2.99
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	7	2.99
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	7	2.99
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	4	2.96
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	4	2.96
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	4	2.96
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	4	2.96
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	4	2.96
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	4	2.96
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	9	2.95
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	9	2.95
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	9	2.95
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	9	2.95
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	9	2.95
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	9	2.95
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	9	2.95
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	9	2.95
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	7	2.94
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	7	2.94
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	8	2.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	8	2.91
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	8	2.91
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	8	2.91
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	8	2.91
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	8	2.91
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	3	2.9
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	3	2.9
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	1	2.9
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	1	2.9
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	5	2.86
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	5	2.86
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	5	2.86
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	5	2.86
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	5	2.86
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	5	2.85
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	5	2.85
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	5	2.85
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	3	2.85
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	3	2.85
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	3	2.85
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	3	2.85
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	3	2.85
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	3	2.85
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	4	2.84
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	4	2.84
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	3	2.83
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	3	2.83
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	3	2.83
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	3	2.83
(1,322)	1:A:97:VAL:HB	1:A:94:LEU:HA	5	2.8
(1,1189)	1:B:97:VAL:HB	1:B:94:LEU:HA	5	2.8
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	5	2.78
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	5	2.78
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	5	2.78
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	5	2.78
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	5	2.78
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	5	2.78
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	8	2.76
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	3	2.75
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	3	2.75
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	3	2.75
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	3	2.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	2	2.75
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	2	2.75
(1,1189)	1:B:97:VAL:HB	1:B:94:LEU:HA	8	2.75
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	3	2.75
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	3	2.75
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	3	2.75
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	3	2.75
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	2	2.74
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	2	2.74
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD1	6	2.74
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD2	6	2.74
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD1	6	2.74
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD2	6	2.74
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD1	6	2.74
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD2	6	2.74
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	6	2.74
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	6	2.74
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	6	2.74
(1,322)	1:A:97:VAL:HB	1:A:94:LEU:HA	8	2.74
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	6	2.74
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	6	2.74
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD1	6	2.74
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD2	6	2.74
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD1	6	2.74
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD2	6	2.74
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD1	6	2.74
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD2	6	2.74
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	6	2.74
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	6	2.74
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	6	2.74
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	8	2.74
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	8	2.74
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	8	2.74
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	8	2.74
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	8	2.73
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	8	2.73
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	8	2.73
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	8	2.73
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	4	2.72
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	4	2.72
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	4	2.72
(1,322)	1:A:97:VAL:HB	1:A:94:LEU:HA	2	2.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	4	2.72
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	4	2.72
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	4	2.72
(1,1189)	1:B:97:VAL:HB	1:B:94:LEU:HA	2	2.72
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	4	2.71
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	4	2.71
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	7	2.7
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	7	2.7
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	7	2.7
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	7	2.7
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	7	2.7
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	7	2.7
(1,322)	1:A:97:VAL:HB	1:A:94:LEU:HA	3	2.69
(1,1189)	1:B:97:VAL:HB	1:B:94:LEU:HA	3	2.69
(1,322)	1:A:97:VAL:HB	1:A:94:LEU:HA	4	2.68
(1,1189)	1:B:97:VAL:HB	1:B:94:LEU:HA	4	2.68
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	2	2.67
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	2	2.67
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	2	2.67
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	2	2.67
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	9	2.67
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	9	2.67
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	9	2.67
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	9	2.67
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	9	2.67
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	9	2.67
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	2	2.67
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	2	2.67
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	2	2.67
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	2	2.67
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	2	2.65
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	2	2.65
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	2	2.65
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	2	2.65
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	2	2.65
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	2	2.65
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	3	2.64
(1,986)	1:B:77:VAL:HB	1:B:146:ASP:HB3	6	2.63
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	1	2.63
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	3	2.63
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	6	2.63
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	6	2.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	1	2.63
(1,119)	1:A:77:VAL:HB	1:A:146:ASP:HB3	6	2.63
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD1	6	2.62
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD2	6	2.62
(1,436)	1:A:107:ARG:HB2	1:A:109:ASP:H	3	2.62
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	6	2.62
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	6	2.62
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	6	2.62
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	6	2.62
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD1	6	2.62
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD2	6	2.62
(1,1303)	1:B:107:ARG:HB2	1:B:109:ASP:H	3	2.62
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	8	2.61
(1,357)	1:A:100:VAL:HG11	1:A:80:ASP:HA	3	2.61
(1,357)	1:A:100:VAL:HG12	1:A:80:ASP:HA	3	2.61
(1,357)	1:A:100:VAL:HG13	1:A:80:ASP:HA	3	2.61
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	8	2.61
(1,1224)	1:B:100:VAL:HG11	1:B:80:ASP:HA	3	2.61
(1,1224)	1:B:100:VAL:HG12	1:B:80:ASP:HA	3	2.61
(1,1224)	1:B:100:VAL:HG13	1:B:80:ASP:HA	3	2.61
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	6	2.61
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	6	2.61
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	6	2.61
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	6	2.61
(1,322)	1:A:97:VAL:HB	1:A:94:LEU:HA	7	2.6
(1,322)	1:A:97:VAL:HB	1:A:94:LEU:HA	9	2.6
(1,1762)	1:A:122:TYR:HB2	1:B:111:HIS:H	7	2.6
(1,1762)	1:A:122:TYR:HB3	1:B:111:HIS:H	7	2.6
(1,1189)	1:B:97:VAL:HB	1:B:94:LEU:HA	7	2.6
(1,1189)	1:B:97:VAL:HB	1:B:94:LEU:HA	9	2.6
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	6	2.59
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	6	2.59
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	1	2.58
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	1	2.58
(1,986)	1:B:77:VAL:HB	1:B:146:ASP:HB3	9	2.57
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD1	6	2.57
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD2	6	2.57
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD1	6	2.57
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD2	6	2.57
(1,119)	1:A:77:VAL:HB	1:A:146:ASP:HB3	9	2.57
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	1	2.53
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	1	2.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	1	2.53
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	4	2.53
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	1	2.53
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	1	2.53
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	1	2.53
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	4	2.53
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	3	2.51
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	3	2.51
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	7	2.51
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	7	2.51
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	7	2.51
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	7	2.51
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	3	2.51
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	3	2.51
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	7	2.51
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	7	2.51
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	7	2.51
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	7	2.51
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	2	2.49
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	5	2.49
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	2	2.49
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	5	2.49
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	7	2.47
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	8	2.47
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	8	2.47
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	8	2.47
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	8	2.47
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	8	2.47
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	7	2.47
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD1	2	2.47
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD2	2	2.47
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD1	2	2.47
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD2	2	2.47
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD1	2	2.47
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD2	2	2.47
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	8	2.47
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	8	2.47
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	8	2.47
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	8	2.47
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	8	2.47
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD1	2	2.47
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD2	2	2.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD1	2	2.47
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD2	2	2.47
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD1	2	2.47
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD2	2	2.47
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	4	2.46
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	4	2.46
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	2	2.45
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	2	2.45
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	2	2.44
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	3	2.42
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	9	2.42
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	3	2.42
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	9	2.42
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD1	9	2.42
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD2	9	2.42
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD1	9	2.42
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD2	9	2.42
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD1	9	2.42
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD2	9	2.42
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD1	9	2.41
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD2	9	2.41
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD1	9	2.41
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD2	9	2.41
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD1	9	2.41
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD2	9	2.41
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	9	2.4
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	9	2.4
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	9	2.4
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	9	2.4
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	9	2.4
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	9	2.4
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	5	2.39
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	5	2.39
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	5	2.39
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	5	2.39
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	5	2.39
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	5	2.39
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	9	2.36
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	9	2.36
(1,523)	1:A:115:SER:HB3	1:A:106:GLU:H	2	2.32
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	3	2.32
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	9	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	9	2.32
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	9	2.32
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	9	2.32
(1,1390)	1:B:115:SER:HB3	1:B:106:GLU:H	2	2.32
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	3	2.32
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	9	2.32
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	9	2.32
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	5	2.3
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	5	2.3
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	5	2.3
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	5	2.3
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	5	2.3
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	5	2.3
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	4	2.3
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	4	2.3
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	4	2.3
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	4	2.3
(1,185)	1:A:83:HIS:HB3	1:A:104:HIS:HB2	3	2.3
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	5	2.3
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	5	2.3
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	5	2.3
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	5	2.3
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	5	2.3
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	5	2.3
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	4	2.3
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	4	2.3
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	4	2.3
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	4	2.3
(1,1052)	1:B:83:HIS:HB3	1:B:104:HIS:HB2	3	2.3
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	4	2.29
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	4	2.29
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	4	2.29
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	8	2.29
(1,1762)	1:A:122:TYR:HB2	1:B:111:HIS:H	5	2.29
(1,1762)	1:A:122:TYR:HB3	1:B:111:HIS:H	5	2.29
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	4	2.29
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	4	2.29
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	4	2.29
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	8	2.29
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	7	2.28
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	3	2.28
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	3	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	3	2.28
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	6	2.28
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	7	2.28
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	3	2.28
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	3	2.28
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	3	2.28
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	6	2.28
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	1	2.27
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	1	2.27
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	1	2.27
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	1	2.27
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	1	2.26
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	1	2.26
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	1	2.26
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	1	2.26
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	1	2.26
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	1	2.26
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	1	2.26
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	1	2.26
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	1	2.26
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	1	2.26
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	1	2.26
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	1	2.26
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	9	2.25
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	9	2.25
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	9	2.25
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	9	2.24
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	6	2.23
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	6	2.23
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	6	2.23
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	7	2.23
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	5	2.23
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	7	2.23
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	5	2.23
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	3	2.22
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	5	2.22
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	3	2.22
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	6	2.22
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	6	2.22
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	6	2.22
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	5	2.22
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	6	2.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	6	2.21
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	9	2.2
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD1	5	2.2
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD2	5	2.2
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD1	5	2.2
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD2	5	2.2
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD1	5	2.2
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD2	5	2.2
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD1	5	2.2
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD2	5	2.2
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD1	5	2.2
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD2	5	2.2
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD1	5	2.2
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD2	5	2.2
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	2	2.19
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	2	2.19
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	2	2.19
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	2	2.19
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	2	2.19
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	2	2.19
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	2	2.19
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	2	2.19
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	2	2.19
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	2	2.19
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	2	2.19
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	2	2.19
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	9	2.19
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	8	2.18
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	8	2.18
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	8	2.18
(1,511)	1:A:114:ILE:HG21	1:A:112:GLY:H	4	2.18
(1,511)	1:A:114:ILE:HG22	1:A:112:GLY:H	4	2.18
(1,511)	1:A:114:ILE:HG23	1:A:112:GLY:H	4	2.18
(1,1762)	1:A:122:TYR:HB2	1:B:111:HIS:H	9	2.18
(1,1762)	1:A:122:TYR:HB3	1:B:111:HIS:H	9	2.18
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	8	2.18
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	8	2.18
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	8	2.18
(1,1378)	1:B:114:ILE:HG21	1:B:112:GLY:H	4	2.18
(1,1378)	1:B:114:ILE:HG22	1:B:112:GLY:H	4	2.18
(1,1378)	1:B:114:ILE:HG23	1:B:112:GLY:H	4	2.18
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	2	2.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	6	2.17
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	2	2.17
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	6	2.17
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD1	5	2.16
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD2	5	2.16
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD1	5	2.16
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD2	5	2.16
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD1	5	2.16
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD2	5	2.16
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD1	5	2.16
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD2	5	2.16
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD1	5	2.16
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD2	5	2.16
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD1	5	2.16
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD2	5	2.16
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	9	2.15
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	9	2.15
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	9	2.15
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	7	2.15
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	7	2.15
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	7	2.15
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	7	2.15
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	7	2.15
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	7	2.15
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	7	2.15
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	7	2.15
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	7	2.15
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	7	2.15
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	7	2.15
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	7	2.15
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	9	2.15
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	9	2.15
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	9	2.15
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	6	2.14
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	6	2.14
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	6	2.14
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	6	2.14
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	6	2.14
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	6	2.14
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	9	2.14
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	9	2.14
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	9	2.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	9	2.14
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	9	2.14
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	9	2.14
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	9	2.14
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	9	2.14
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	9	2.14
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	9	2.14
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	9	2.14
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	9	2.14
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	9	2.14
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	9	2.14
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	9	2.14
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	9	2.13
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	9	2.13
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	9	2.13
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	6	2.13
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	6	2.13
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	6	2.13
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	6	2.13
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	6	2.13
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	6	2.13
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	4	2.12
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	2	2.12
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	4	2.12
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	2	2.12
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	2	2.11
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	4	2.11
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	2	2.11
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	4	2.11
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	4	2.1
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	4	2.1
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	4	2.1
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	4	2.1
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD1	5	2.1
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD2	5	2.1
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD1	5	2.09
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD2	5	2.09
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	6	2.09
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	6	2.09
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	6	2.09
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	1	2.09
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	1	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	1	2.09
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	1	2.09
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	6	2.09
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	6	2.09
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	6	2.09
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	1	2.09
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD1	5	2.08
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD2	5	2.08
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	5	2.08
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD1	5	2.08
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD2	5	2.08
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	1	2.08
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	1	2.08
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	1	2.08
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	5	2.08
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	1	2.07
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	5	2.07
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	5	2.07
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	5	2.07
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	1	2.07
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	6	2.06
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	6	2.06
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	6	2.06
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	3	2.06
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	3	2.06
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	3	2.06
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	7	2.06
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	7	2.06
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	7	2.06
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	8	2.06
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	7	2.06
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	3	2.06
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	5	2.06
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	5	2.06
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	5	2.06
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	8	2.06
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	7	2.06
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	6	2.06
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	6	2.06
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	6	2.06
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	3	2.06
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	3	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	3	2.05
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	3	2.05
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	7	2.05
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	7	2.05
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	7	2.05
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	8	2.04
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	8	2.04
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	8	2.04
(1,439)	1:A:107:ARG:HD3	1:A:114:ILE:HG21	7	2.04
(1,439)	1:A:107:ARG:HD3	1:A:114:ILE:HG22	7	2.04
(1,439)	1:A:107:ARG:HD3	1:A:114:ILE:HG23	7	2.04
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	7	2.04
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	7	2.04
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	1	2.04
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	1	2.04
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	1	2.04
(1,1306)	1:B:107:ARG:HD3	1:B:114:ILE:HG21	7	2.04
(1,1306)	1:B:107:ARG:HD3	1:B:114:ILE:HG22	7	2.04
(1,1306)	1:B:107:ARG:HD3	1:B:114:ILE:HG23	7	2.04
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	7	2.04
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	7	2.04
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	8	2.03
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	8	2.03
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	8	2.03
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	1	2.03
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	1	2.02
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	1	2.02
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	1	2.02
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	2	2.02
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	2	2.02
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	2	2.02
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	1	2.02
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	2	2.02
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	2	2.02
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	2	2.02
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG21	3	2.01
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG22	3	2.01
(1,549)	1:A:118:PHE:HB2	1:A:100:VAL:HG23	3	2.01
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	2	2.01
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	2	2.01
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	2	2.01
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG21	3	2.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG22	3	2.01
(1,1416)	1:B:118:PHE:HB2	1:B:100:VAL:HG23	3	2.01
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	2	2.01
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	2	2.01
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	2	2.01
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	1	2.0
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	1	2.0
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	1	2.0
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	1	2.0
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	1	2.0
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	1	2.0
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	6	1.99
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	6	1.99
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	6	1.99
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	6	1.99
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	6	1.99
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	6	1.99
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	9	1.96
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	5	1.96
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	1	1.96
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	9	1.96
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	1	1.95
(1,642)	1:A:125:PRO:HD3	1:A:122:TYR:HD1	6	1.95
(1,642)	1:A:125:PRO:HD3	1:A:122:TYR:HD2	6	1.95
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	1	1.95
(1,1509)	1:B:125:PRO:HD3	1:B:122:TYR:HD1	6	1.95
(1,1509)	1:B:125:PRO:HD3	1:B:122:TYR:HD2	6	1.95
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	1	1.95
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	5	1.95
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	6	1.94
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	6	1.94
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	6	1.94
(1,455)	1:A:111:HIS:HA	1:A:109:ASP:HA	5	1.94
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	9	1.94
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	6	1.94
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	6	1.94
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	6	1.94
(1,1322)	1:B:111:HIS:HA	1:B:109:ASP:HA	5	1.94
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	9	1.94
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	9	1.92
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	3	1.92
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	3	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	8	1.91
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	4	1.91
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	8	1.91
(1,552)	1:A:118:PHE:HE1	1:A:103:LYS:H	7	1.9
(1,552)	1:A:118:PHE:HE2	1:A:103:LYS:H	7	1.9
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	9	1.9
(1,1419)	1:B:118:PHE:HE1	1:B:103:LYS:H	7	1.9
(1,1419)	1:B:118:PHE:HE2	1:B:103:LYS:H	7	1.9
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	9	1.89
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	4	1.89
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	9	1.89
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	7	1.88
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	1	1.87
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	1	1.87
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	1	1.87
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	1	1.87
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	1	1.87
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	1	1.87
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	3	1.86
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	3	1.86
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	2	1.85
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	2	1.85
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	7	1.85
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE1	2	1.84
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE2	2	1.84
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE1	2	1.84
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE2	2	1.84
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE1	2	1.84
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE2	2	1.84
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	5	1.84
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE1	2	1.84
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE2	2	1.84
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE1	2	1.84
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE2	2	1.84
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE1	2	1.84
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE2	2	1.84
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	5	1.84
(1,906)	1:B:74:ARG:HG2	1:B:73:ASP:H	7	1.82
(1,906)	1:B:74:ARG:HG3	1:B:73:ASP:H	7	1.82
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	5	1.82
(1,39)	1:A:74:ARG:HG2	1:A:73:ASP:H	7	1.82
(1,39)	1:A:74:ARG:HG3	1:A:73:ASP:H	7	1.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	9	1.82
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	5	1.82
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	9	1.82
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	1	1.81
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	1	1.81
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	1	1.81
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	3	1.81
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	1	1.81
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	1	1.81
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	1	1.81
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	4	1.8
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	4	1.8
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	1	1.8
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	4	1.8
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	4	1.8
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	1	1.8
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	2	1.78
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	9	1.78
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	9	1.78
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	2	1.78
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	7	1.77
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	7	1.77
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	9	1.77
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	6	1.77
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	7	1.77
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	7	1.77
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	9	1.77
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	6	1.77
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	3	1.77
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	3	1.76
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	3	1.76
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	3	1.76
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	3	1.76
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	3	1.76
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	3	1.76
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	2	1.76
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	3	1.76
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	3	1.76
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	3	1.76
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	3	1.76
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	3	1.76
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	3	1.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	3	1.76
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	2	1.76
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	4	1.75
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	2	1.75
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	2	1.75
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	4	1.75
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	7	1.75
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	7	1.75
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	2	1.75
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	2	1.75
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	5	1.74
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	6	1.74
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	5	1.74
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	6	1.74
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	2	1.74
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	5	1.73
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	2	1.73
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	5	1.73
(1,1264)	1:B:103:LYS:HG2	1:B:116:ARG:H	9	1.73
(1,1264)	1:B:103:LYS:HG3	1:B:116:ARG:H	9	1.73
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB2	8	1.72
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB3	8	1.72
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB2	8	1.72
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB3	8	1.72
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB2	8	1.72
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB3	8	1.72
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	5	1.72
(1,397)	1:A:103:LYS:HG2	1:A:116:ARG:H	9	1.72
(1,397)	1:A:103:LYS:HG3	1:A:116:ARG:H	9	1.72
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	5	1.72
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	4	1.71
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD1	9	1.71
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD2	9	1.71
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD1	9	1.71
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD2	9	1.71
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD1	9	1.71
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD2	9	1.71
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD1	9	1.71
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD2	9	1.71
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD1	9	1.71
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD2	9	1.71
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD1	9	1.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD2	9	1.71
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	4	1.71
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB2	8	1.71
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB3	8	1.71
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB2	8	1.71
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB3	8	1.71
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB2	8	1.71
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB3	8	1.71
(1,483)	1:A:113:PHE:HE1	1:A:107:ARG:HA	8	1.7
(1,483)	1:A:113:PHE:HE2	1:A:107:ARG:HA	8	1.7
(1,1350)	1:B:113:PHE:HE1	1:B:107:ARG:HA	8	1.7
(1,1350)	1:B:113:PHE:HE2	1:B:107:ARG:HA	8	1.7
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	4	1.69
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	3	1.69
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	3	1.69
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	9	1.69
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	9	1.69
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	4	1.69
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	8	1.68
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	8	1.68
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB2	2	1.68
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB3	2	1.68
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	2	1.68
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	2	1.68
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	8	1.68
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB2	2	1.68
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB3	2	1.68
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	8	1.68
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	2	1.68
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	2	1.68
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	4	1.67
(1,886)	1:B:70:LEU:HD11	1:B:70:LEU:H	2	1.67
(1,886)	1:B:70:LEU:HD12	1:B:70:LEU:H	2	1.67
(1,886)	1:B:70:LEU:HD13	1:B:70:LEU:H	2	1.67
(1,886)	1:B:70:LEU:HD21	1:B:70:LEU:H	2	1.67
(1,886)	1:B:70:LEU:HD22	1:B:70:LEU:H	2	1.67
(1,886)	1:B:70:LEU:HD23	1:B:70:LEU:H	2	1.67
(1,885)	1:B:70:LEU:HD11	1:B:70:LEU:H	2	1.67
(1,885)	1:B:70:LEU:HD12	1:B:70:LEU:H	2	1.67
(1,885)	1:B:70:LEU:HD13	1:B:70:LEU:H	2	1.67
(1,885)	1:B:70:LEU:HD21	1:B:70:LEU:H	2	1.67
(1,885)	1:B:70:LEU:HD22	1:B:70:LEU:H	2	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,885)	1:B:70:LEU:HD23	1:B:70:LEU:H	2	1.67
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	3	1.67
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	7	1.67
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	8	1.67
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	8	1.67
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	4	1.67
(1,19)	1:A:70:LEU:HD11	1:A:70:LEU:H	2	1.67
(1,19)	1:A:70:LEU:HD12	1:A:70:LEU:H	2	1.67
(1,19)	1:A:70:LEU:HD13	1:A:70:LEU:H	2	1.67
(1,19)	1:A:70:LEU:HD21	1:A:70:LEU:H	2	1.67
(1,19)	1:A:70:LEU:HD22	1:A:70:LEU:H	2	1.67
(1,19)	1:A:70:LEU:HD23	1:A:70:LEU:H	2	1.67
(1,18)	1:A:70:LEU:HD11	1:A:70:LEU:H	2	1.67
(1,18)	1:A:70:LEU:HD12	1:A:70:LEU:H	2	1.67
(1,18)	1:A:70:LEU:HD13	1:A:70:LEU:H	2	1.67
(1,18)	1:A:70:LEU:HD21	1:A:70:LEU:H	2	1.67
(1,18)	1:A:70:LEU:HD22	1:A:70:LEU:H	2	1.67
(1,18)	1:A:70:LEU:HD23	1:A:70:LEU:H	2	1.67
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	3	1.67
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	7	1.67
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	8	1.67
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	8	1.67
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	9	1.66
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	9	1.66
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	9	1.66
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	9	1.66
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	9	1.66
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	9	1.66
(1,976)	1:B:77:VAL:HG21	1:B:79:LEU:H	1	1.65
(1,976)	1:B:77:VAL:HG22	1:B:79:LEU:H	1	1.65
(1,976)	1:B:77:VAL:HG23	1:B:79:LEU:H	1	1.65
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB2	7	1.65
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB3	7	1.65
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB2	7	1.65
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB3	7	1.65
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB2	7	1.65
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB3	7	1.65
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	8	1.65
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	8	1.65
(1,109)	1:A:77:VAL:HG21	1:A:79:LEU:H	1	1.65
(1,109)	1:A:77:VAL:HG22	1:A:79:LEU:H	1	1.65
(1,109)	1:A:77:VAL:HG23	1:A:79:LEU:H	1	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB2	7	1.65
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB3	7	1.65
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB2	7	1.65
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB3	7	1.65
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB2	7	1.65
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB3	7	1.65
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE1	8	1.64
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE2	8	1.64
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE1	8	1.64
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE2	8	1.64
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE1	8	1.64
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE2	8	1.64
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	7	1.64
(1,203)	1:A:84:PHE:HE1	1:A:116:ARG:H	5	1.64
(1,203)	1:A:84:PHE:HE2	1:A:116:ARG:H	5	1.64
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	7	1.64
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE1	8	1.64
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE2	8	1.64
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE1	8	1.64
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE2	8	1.64
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE1	8	1.64
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE2	8	1.64
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	9	1.63
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	6	1.63
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	6	1.63
(1,194)	1:A:84:PHE:HD1	1:A:83:HIS:H	3	1.63
(1,194)	1:A:84:PHE:HD2	1:A:83:HIS:H	3	1.63
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	9	1.63
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	6	1.63
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	6	1.63
(1,1070)	1:B:84:PHE:HE1	1:B:116:ARG:H	5	1.63
(1,1070)	1:B:84:PHE:HE2	1:B:116:ARG:H	5	1.63
(1,1061)	1:B:84:PHE:HD1	1:B:83:HIS:H	3	1.63
(1,1061)	1:B:84:PHE:HD2	1:B:83:HIS:H	3	1.63
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	6	1.62
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	6	1.62
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	2	1.62
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	2	1.62
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	2	1.62
(1,483)	1:A:113:PHE:HE1	1:A:107:ARG:HA	2	1.62
(1,483)	1:A:113:PHE:HE2	1:A:107:ARG:HA	2	1.62
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE1	2	1.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE2	2	1.62
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	5	1.62
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	5	1.62
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	6	1.62
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	6	1.62
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	2	1.62
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	2	1.62
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	2	1.62
(1,1350)	1:B:113:PHE:HE1	1:B:107:ARG:HA	2	1.62
(1,1350)	1:B:113:PHE:HE2	1:B:107:ARG:HA	2	1.62
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE1	2	1.62
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE2	2	1.62
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	5	1.62
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	5	1.62
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB2	1	1.61
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB3	1	1.61
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB2	1	1.61
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB3	1	1.61
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB2	1	1.61
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB3	1	1.61
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	7	1.61
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	2	1.61
(1,170)	1:A:83:HIS:H	1:A:81:VAL:HB	2	1.61
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	7	1.61
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB2	1	1.61
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB3	1	1.61
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB2	1	1.61
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB3	1	1.61
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB2	1	1.61
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB3	1	1.61
(1,1037)	1:B:83:HIS:H	1:B:81:VAL:HB	2	1.61
(1,976)	1:B:77:VAL:HG21	1:B:79:LEU:H	7	1.6
(1,976)	1:B:77:VAL:HG22	1:B:79:LEU:H	7	1.6
(1,976)	1:B:77:VAL:HG23	1:B:79:LEU:H	7	1.6
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	4	1.6
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	4	1.6
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	7	1.6
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	7	1.6
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	8	1.6
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	8	1.6
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	4	1.6
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	4	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	7	1.6
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	7	1.6
(1,109)	1:A:77:VAL:HG21	1:A:79:LEU:H	7	1.6
(1,109)	1:A:77:VAL:HG22	1:A:79:LEU:H	7	1.6
(1,109)	1:A:77:VAL:HG23	1:A:79:LEU:H	7	1.6
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	7	1.59
(1,595)	1:A:122:TYR:HD1	1:A:122:TYR:H	7	1.59
(1,595)	1:A:122:TYR:HD2	1:A:122:TYR:H	7	1.59
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	1	1.59
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	1	1.59
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	1	1.59
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	9	1.59
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	9	1.59
(1,1462)	1:B:122:TYR:HD1	1:B:122:TYR:H	7	1.59
(1,1462)	1:B:122:TYR:HD2	1:B:122:TYR:H	7	1.59
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	7	1.59
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	9	1.59
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	9	1.59
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	3	1.58
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	4	1.58
(1,483)	1:A:113:PHE:HE1	1:A:107:ARG:HA	6	1.58
(1,483)	1:A:113:PHE:HE2	1:A:107:ARG:HA	6	1.58
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	5	1.58
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	5	1.58
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	5	1.58
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	1	1.58
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	1	1.58
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	1	1.58
(1,1350)	1:B:113:PHE:HE1	1:B:107:ARG:HA	6	1.58
(1,1350)	1:B:113:PHE:HE2	1:B:107:ARG:HA	6	1.58
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	5	1.58
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	5	1.58
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	3	1.58
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	5	1.58
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB2	3	1.57
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB3	3	1.57
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB2	3	1.57
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB3	3	1.57
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB2	3	1.57
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB3	3	1.57
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD11	5	1.57
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD12	5	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD13	5	1.57
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD21	5	1.57
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD22	5	1.57
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD23	5	1.57
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD11	5	1.57
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD12	5	1.57
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD13	5	1.57
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD21	5	1.57
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD22	5	1.57
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD23	5	1.57
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD11	5	1.57
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD12	5	1.57
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD13	5	1.57
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD21	5	1.57
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD22	5	1.57
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD23	5	1.57
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	4	1.57
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD11	5	1.57
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD12	5	1.57
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD13	5	1.57
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD21	5	1.57
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD22	5	1.57
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD23	5	1.57
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD11	5	1.57
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD12	5	1.57
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD13	5	1.57
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD21	5	1.57
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD22	5	1.57
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD23	5	1.57
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD11	5	1.57
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD12	5	1.57
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD13	5	1.57
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD21	5	1.57
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD22	5	1.57
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD23	5	1.57
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB2	3	1.57
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB3	3	1.57
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB2	3	1.57
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB3	3	1.57
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB2	3	1.57
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB3	3	1.57
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	6	1.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	6	1.56
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	1	1.56
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	6	1.56
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	6	1.56
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	1	1.56
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	1	1.55
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	1	1.55
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	8	1.55
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	8	1.55
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	8	1.55
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	1	1.55
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	1	1.55
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	8	1.55
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	8	1.55
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	8	1.55
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	9	1.54
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	6	1.54
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	8	1.54
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	4	1.54
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	4	1.54
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	9	1.54
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	6	1.54
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	8	1.54
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	4	1.54
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	4	1.54
(1,986)	1:B:77:VAL:HB	1:B:146:ASP:HB3	1	1.53
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	5	1.53
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	5	1.53
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	7	1.53
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	7	1.53
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD1	3	1.53
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD2	3	1.53
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD1	3	1.53
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD2	3	1.53
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD1	3	1.53
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD2	3	1.53
(1,119)	1:A:77:VAL:HB	1:A:146:ASP:HB3	1	1.53
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD1	3	1.53
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD2	3	1.53
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD1	3	1.53
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD2	3	1.53
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD1	3	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD2	3	1.53
(1,258)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	1	1.52
(1,258)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	1	1.52
(1,258)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	1	1.52
(1,257)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	1	1.52
(1,257)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	1	1.52
(1,257)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	1	1.52
(1,1125)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	1	1.52
(1,1125)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	1	1.52
(1,1125)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	1	1.52
(1,1124)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	1	1.52
(1,1124)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	1	1.52
(1,1124)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	1	1.52
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	9	1.51
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	9	1.51
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	1	1.51
(1,258)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	3	1.51
(1,258)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	3	1.51
(1,258)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	3	1.51
(1,257)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	3	1.51
(1,257)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	3	1.51
(1,257)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	3	1.51
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	1	1.51
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	1	1.51
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	1	1.51
(1,187)	1:A:83:HIS:HB3	1:A:104:HIS:HD2	6	1.51
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	9	1.51
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	9	1.51
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	1	1.51
(1,1125)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	3	1.51
(1,1125)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	3	1.51
(1,1125)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	3	1.51
(1,1124)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	3	1.51
(1,1124)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	3	1.51
(1,1124)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	3	1.51
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	1	1.51
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	1	1.51
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	1	1.51
(1,1054)	1:B:83:HIS:HB3	1:B:104:HIS:HD2	6	1.51
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	2	1.5
(1,642)	1:A:125:PRO:HD3	1:A:122:TYR:HD1	5	1.5
(1,642)	1:A:125:PRO:HD3	1:A:122:TYR:HD2	5	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	1	1.5
(1,1509)	1:B:125:PRO:HD3	1:B:122:TYR:HD1	5	1.5
(1,1509)	1:B:125:PRO:HD3	1:B:122:TYR:HD2	5	1.5
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	2	1.5
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	5	1.5
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	1	1.5
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	5	1.49
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	8	1.49
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	5	1.49
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	5	1.49
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	6	1.49
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	4	1.49
(1,238)	1:A:89:LEU:HD11	1:A:85:SER:H	5	1.49
(1,238)	1:A:89:LEU:HD12	1:A:85:SER:H	5	1.49
(1,238)	1:A:89:LEU:HD13	1:A:85:SER:H	5	1.49
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	7	1.49
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	9	1.49
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	9	1.49
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	5	1.49
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	5	1.49
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	5	1.49
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	5	1.49
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	5	1.49
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	5	1.49
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	8	1.49
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	5	1.49
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	5	1.49
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	6	1.49
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	4	1.49
(1,1105)	1:B:89:LEU:HD11	1:B:85:SER:H	5	1.49
(1,1105)	1:B:89:LEU:HD12	1:B:85:SER:H	5	1.49
(1,1105)	1:B:89:LEU:HD13	1:B:85:SER:H	5	1.49
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	7	1.49
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	3	1.48
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	8	1.48
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	6	1.48
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	3	1.48
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	8	1.48
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	6	1.48
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	5	1.47
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	5	1.47
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	5	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	5	1.47
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	5	1.47
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	5	1.47
(1,912)	1:B:75:PHE:HA	1:B:74:ARG:HG2	6	1.47
(1,912)	1:B:75:PHE:HA	1:B:74:ARG:HG3	6	1.47
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	5	1.47
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	5	1.47
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	5	1.47
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	5	1.47
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	5	1.47
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	5	1.47
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	1	1.47
(1,45)	1:A:75:PHE:HA	1:A:74:ARG:HG2	6	1.47
(1,45)	1:A:75:PHE:HA	1:A:74:ARG:HG3	6	1.47
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	6	1.47
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	7	1.47
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	7	1.47
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	7	1.47
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	1	1.47
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB2	4	1.46
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB3	4	1.46
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB2	4	1.46
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB3	4	1.46
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB2	4	1.46
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB3	4	1.46
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	7	1.46
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	7	1.46
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	7	1.46
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE1	7	1.46
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE2	7	1.46
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB2	4	1.46
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB3	4	1.46
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB2	4	1.46
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB3	4	1.46
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB2	4	1.46
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB3	4	1.46
(1,893)	1:B:71:GLU:H	1:B:76:SER:H	3	1.45
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	8	1.45
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD11	9	1.45
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD12	9	1.45
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD13	9	1.45
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD11	9	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD12	9	1.45
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD13	9	1.45
(1,483)	1:A:113:PHE:HE1	1:A:107:ARG:HA	7	1.45
(1,483)	1:A:113:PHE:HE2	1:A:107:ARG:HA	7	1.45
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE1	7	1.45
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE2	7	1.45
(1,26)	1:A:71:GLU:H	1:A:76:SER:H	3	1.45
(1,186)	1:A:83:HIS:HB2	1:A:104:HIS:HB2	3	1.45
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	8	1.45
(1,1350)	1:B:113:PHE:HE1	1:B:107:ARG:HA	7	1.45
(1,1350)	1:B:113:PHE:HE2	1:B:107:ARG:HA	7	1.45
(1,1054)	1:B:83:HIS:HB3	1:B:104:HIS:HD2	5	1.45
(1,1053)	1:B:83:HIS:HB2	1:B:104:HIS:HB2	3	1.45
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD11	9	1.44
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD12	9	1.44
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD13	9	1.44
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD11	9	1.44
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD12	9	1.44
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD13	9	1.44
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE1	4	1.44
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE2	4	1.44
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE1	4	1.44
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE2	4	1.44
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE1	4	1.44
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE2	4	1.44
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	8	1.44
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	8	1.44
(1,595)	1:A:122:TYR:HD1	1:A:122:TYR:H	5	1.44
(1,595)	1:A:122:TYR:HD2	1:A:122:TYR:H	5	1.44
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	8	1.44
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	8	1.44
(1,187)	1:A:83:HIS:HB3	1:A:104:HIS:HD2	5	1.44
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	8	1.44
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	8	1.44
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE1	4	1.44
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE2	4	1.44
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE1	4	1.44
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE2	4	1.44
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE1	4	1.44
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE2	4	1.44
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE1	4	1.43
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE2	4	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE3	4	1.43
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE1	4	1.43
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE2	4	1.43
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE3	4	1.43
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE1	4	1.43
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE2	4	1.43
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE3	4	1.43
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE1	4	1.43
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE2	4	1.43
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE3	4	1.43
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE1	4	1.43
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE2	4	1.43
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE3	4	1.43
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE1	4	1.43
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE2	4	1.43
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE3	4	1.43
(1,912)	1:B:75:PHE:HA	1:B:74:ARG:HG2	3	1.43
(1,912)	1:B:75:PHE:HA	1:B:74:ARG:HG3	3	1.43
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE1	4	1.43
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE2	4	1.43
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE3	4	1.43
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE1	4	1.43
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE2	4	1.43
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE3	4	1.43
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE1	4	1.43
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE2	4	1.43
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE3	4	1.43
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE1	4	1.43
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE2	4	1.43
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE3	4	1.43
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE1	4	1.43
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE2	4	1.43
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE3	4	1.43
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE1	4	1.43
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE2	4	1.43
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE3	4	1.43
(1,605)	1:A:123:ARG:HD2	1:A:98:ILE:H	5	1.43
(1,605)	1:A:123:ARG:HD3	1:A:98:ILE:H	5	1.43
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	5	1.43
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	9	1.43
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	9	1.43
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	9	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	2	1.43
(1,45)	1:A:75:PHE:HA	1:A:74:ARG:HG2	3	1.43
(1,45)	1:A:75:PHE:HA	1:A:74:ARG:HG3	3	1.43
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	6	1.43
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	6	1.43
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	6	1.43
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	6	1.43
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	6	1.43
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	6	1.43
(1,1472)	1:B:123:ARG:HD2	1:B:98:ILE:H	5	1.43
(1,1472)	1:B:123:ARG:HD3	1:B:98:ILE:H	5	1.43
(1,1462)	1:B:122:TYR:HD1	1:B:122:TYR:H	5	1.43
(1,1462)	1:B:122:TYR:HD2	1:B:122:TYR:H	5	1.43
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	8	1.43
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	8	1.43
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	5	1.43
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	9	1.43
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	9	1.43
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	9	1.43
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	2	1.43
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG11	3	1.43
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG12	3	1.43
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG13	3	1.43
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG11	3	1.43
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG12	3	1.43
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG13	3	1.43
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG11	3	1.43
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG12	3	1.43
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG13	3	1.43
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	4	1.42
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	8	1.42
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	8	1.42
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	8	1.42
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	6	1.42
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	6	1.42
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	6	1.42
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	6	1.42
(1,203)	1:A:84:PHE:HE1	1:A:116:ARG:H	1	1.42
(1,203)	1:A:84:PHE:HE2	1:A:116:ARG:H	1	1.42
(1,190)	1:A:84:PHE:HE1	1:A:82:LYS:H	7	1.42
(1,190)	1:A:84:PHE:HE2	1:A:82:LYS:H	7	1.42
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	4	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	8	1.42
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	8	1.42
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	8	1.42
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	6	1.42
(1,1070)	1:B:84:PHE:HE1	1:B:116:ARG:H	1	1.42
(1,1070)	1:B:84:PHE:HE2	1:B:116:ARG:H	1	1.42
(1,1057)	1:B:84:PHE:HE1	1:B:82:LYS:H	7	1.42
(1,1057)	1:B:84:PHE:HE2	1:B:82:LYS:H	7	1.42
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG11	3	1.41
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG12	3	1.41
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG13	3	1.41
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG11	3	1.41
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG12	3	1.41
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG13	3	1.41
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG11	3	1.41
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG12	3	1.41
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG13	3	1.41
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	6	1.41
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	6	1.41
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	6	1.41
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB2	2	1.4
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB3	2	1.4
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB2	2	1.4
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB3	2	1.4
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB2	2	1.4
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB3	2	1.4
(1,906)	1:B:74:ARG:HG2	1:B:73:ASP:H	2	1.4
(1,906)	1:B:74:ARG:HG3	1:B:73:ASP:H	2	1.4
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	7	1.4
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD1	9	1.4
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD2	9	1.4
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	3	1.4
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	3	1.4
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	3	1.4
(1,483)	1:A:113:PHE:HE1	1:A:107:ARG:HA	5	1.4
(1,483)	1:A:113:PHE:HE2	1:A:107:ARG:HA	5	1.4
(1,39)	1:A:74:ARG:HG2	1:A:73:ASP:H	2	1.4
(1,39)	1:A:74:ARG:HG3	1:A:73:ASP:H	2	1.4
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD1	2	1.4
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD2	2	1.4
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD1	2	1.4
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD2	2	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD1	2	1.4
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD2	2	1.4
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	7	1.4
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD1	9	1.4
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD2	9	1.4
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	3	1.4
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	3	1.4
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	3	1.4
(1,1350)	1:B:113:PHE:HE1	1:B:107:ARG:HA	5	1.4
(1,1350)	1:B:113:PHE:HE2	1:B:107:ARG:HA	5	1.4
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD1	2	1.4
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD2	2	1.4
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD1	2	1.4
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD2	2	1.4
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD1	2	1.4
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD2	2	1.4
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB2	2	1.4
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB3	2	1.4
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB2	2	1.4
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB3	2	1.4
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB2	2	1.4
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB3	2	1.4
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG12	5	1.39
(1,702)	1:A:132:THR:HB	1:A:133:ILE:HG13	5	1.39
(1,641)	1:A:124:ILE:HG21	1:A:148:PRO:HA	4	1.39
(1,641)	1:A:124:ILE:HG22	1:A:148:PRO:HA	4	1.39
(1,641)	1:A:124:ILE:HG23	1:A:148:PRO:HA	4	1.39
(1,195)	1:A:84:PHE:HD1	1:A:84:PHE:H	3	1.39
(1,195)	1:A:84:PHE:HD2	1:A:84:PHE:H	3	1.39
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	7	1.39
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG12	5	1.39
(1,1569)	1:B:132:THR:HB	1:B:133:ILE:HG13	5	1.39
(1,1508)	1:B:124:ILE:HG21	1:B:148:PRO:HA	4	1.39
(1,1508)	1:B:124:ILE:HG22	1:B:148:PRO:HA	4	1.39
(1,1508)	1:B:124:ILE:HG23	1:B:148:PRO:HA	4	1.39
(1,1062)	1:B:84:PHE:HD1	1:B:84:PHE:H	3	1.39
(1,1062)	1:B:84:PHE:HD2	1:B:84:PHE:H	3	1.39
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	7	1.38
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	2	1.38
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	2	1.38
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	2	1.38
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	7	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,98)	1:A:77:VAL:HG11	1:A:77:VAL:H	6	1.37
(1,98)	1:A:77:VAL:HG12	1:A:77:VAL:H	6	1.37
(1,98)	1:A:77:VAL:HG13	1:A:77:VAL:H	6	1.37
(1,965)	1:B:77:VAL:HG11	1:B:77:VAL:H	6	1.37
(1,965)	1:B:77:VAL:HG12	1:B:77:VAL:H	6	1.37
(1,965)	1:B:77:VAL:HG13	1:B:77:VAL:H	6	1.37
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	2	1.37
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	2	1.37
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	2	1.37
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	2	1.37
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE1	2	1.36
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE2	2	1.36
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE3	2	1.36
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE1	2	1.36
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE2	2	1.36
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE3	2	1.36
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE1	2	1.36
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE2	2	1.36
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE3	2	1.36
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE1	2	1.36
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE2	2	1.36
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE3	2	1.36
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE1	2	1.36
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE2	2	1.36
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE3	2	1.36
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE1	2	1.36
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE2	2	1.36
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE3	2	1.36
(1,906)	1:B:74:ARG:HG2	1:B:73:ASP:H	1	1.36
(1,906)	1:B:74:ARG:HG3	1:B:73:ASP:H	1	1.36
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	4	1.36
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	4	1.36
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	4	1.36
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	2	1.36
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	1	1.36
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	1	1.36
(1,39)	1:A:74:ARG:HG2	1:A:73:ASP:H	1	1.36
(1,39)	1:A:74:ARG:HG3	1:A:73:ASP:H	1	1.36
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	4	1.36
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	4	1.36
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	4	1.36
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	1	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	1	1.36
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	8	1.36
(1,912)	1:B:75:PHE:HA	1:B:74:ARG:HG2	9	1.35
(1,912)	1:B:75:PHE:HA	1:B:74:ARG:HG3	9	1.35
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE1	2	1.35
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE2	2	1.35
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE3	2	1.35
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE1	2	1.35
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE2	2	1.35
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE3	2	1.35
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE1	2	1.35
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE2	2	1.35
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE3	2	1.35
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE1	2	1.35
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE2	2	1.35
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE3	2	1.35
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE1	2	1.35
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE2	2	1.35
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE3	2	1.35
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE1	2	1.35
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE2	2	1.35
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE3	2	1.35
(1,727)	1:A:133:ILE:HG21	1:A:145:VAL:HB	3	1.35
(1,727)	1:A:133:ILE:HG22	1:A:145:VAL:HB	3	1.35
(1,727)	1:A:133:ILE:HG23	1:A:145:VAL:HB	3	1.35
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	8	1.35
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	8	1.35
(1,45)	1:A:75:PHE:HA	1:A:74:ARG:HG2	9	1.35
(1,45)	1:A:75:PHE:HA	1:A:74:ARG:HG3	9	1.35
(1,1754)	1:A:118:PHE:HZ	1:B:116:ARG:HA	1	1.35
(1,1594)	1:B:133:ILE:HG21	1:B:145:VAL:HB	3	1.35
(1,1594)	1:B:133:ILE:HG22	1:B:145:VAL:HB	3	1.35
(1,1594)	1:B:133:ILE:HG23	1:B:145:VAL:HB	3	1.35
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	8	1.35
(1,1058)	1:B:84:PHE:HD1	1:B:82:LYS:H	4	1.35
(1,1058)	1:B:84:PHE:HD2	1:B:82:LYS:H	4	1.35
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB2	6	1.34
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB3	6	1.34
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE1	6	1.34
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE2	6	1.34
(1,224)	1:A:87:GLU:H	1:A:88:GLU:HG2	5	1.34
(1,224)	1:A:87:GLU:H	1:A:88:GLU:HG3	5	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,191)	1:A:84:PHE:HD1	1:A:82:LYS:H	4	1.34
(1,191)	1:A:84:PHE:HD2	1:A:82:LYS:H	4	1.34
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	6	1.34
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	5	1.34
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	5	1.34
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	5	1.34
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB2	6	1.34
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB3	6	1.34
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE1	6	1.34
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE2	6	1.34
(1,1091)	1:B:87:GLU:H	1:B:88:GLU:HG2	5	1.34
(1,1091)	1:B:87:GLU:H	1:B:88:GLU:HG3	5	1.34
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	3	1.33
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD1	9	1.33
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD2	9	1.33
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	5	1.33
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	5	1.33
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	5	1.33
(1,525)	1:A:115:SER:HB3	1:A:107:ARG:H	7	1.33
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	9	1.33
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD21	7	1.33
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD22	7	1.33
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD23	7	1.33
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD21	7	1.33
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD22	7	1.33
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD23	7	1.33
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	3	1.33
(1,190)	1:A:84:PHE:HE1	1:A:82:LYS:H	4	1.33
(1,190)	1:A:84:PHE:HE2	1:A:82:LYS:H	4	1.33
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD1	9	1.33
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD2	9	1.33
(1,1392)	1:B:115:SER:HB3	1:B:107:ARG:H	7	1.33
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	5	1.33
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	5	1.33
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	5	1.33
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	9	1.33
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	5	1.33
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD1	8	1.33
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD2	8	1.33
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD1	8	1.33
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD2	8	1.33
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD1	8	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD2	8	1.33
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD21	7	1.33
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD22	7	1.33
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD23	7	1.33
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD21	7	1.33
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD22	7	1.33
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD23	7	1.33
(1,1057)	1:B:84:PHE:HE1	1:B:82:LYS:H	4	1.33
(1,1057)	1:B:84:PHE:HE2	1:B:82:LYS:H	4	1.33
(1,99)	1:A:77:VAL:HG21	1:A:78:ASN:HB2	5	1.32
(1,99)	1:A:77:VAL:HG22	1:A:78:ASN:HB2	5	1.32
(1,99)	1:A:77:VAL:HG23	1:A:78:ASN:HB2	5	1.32
(1,966)	1:B:77:VAL:HG21	1:B:78:ASN:HB2	5	1.32
(1,966)	1:B:77:VAL:HG22	1:B:78:ASN:HB2	5	1.32
(1,966)	1:B:77:VAL:HG23	1:B:78:ASN:HB2	5	1.32
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	1	1.32
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	5	1.32
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	5	1.32
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	5	1.32
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	5	1.32
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	5	1.32
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD1	8	1.32
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD2	8	1.32
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD1	8	1.32
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD2	8	1.32
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD1	8	1.32
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD2	8	1.32
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	1	1.32
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	5	1.32
(1,890)	1:B:70:LEU:HB2	1:B:74:ARG:H	6	1.31
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	4	1.31
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD1	7	1.31
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD2	7	1.31
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD1	7	1.31
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD2	7	1.31
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD1	7	1.31
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD2	7	1.31
(1,516)	1:A:114:ILE:H	1:A:114:ILE:HG12	2	1.31
(1,23)	1:A:70:LEU:HB2	1:A:74:ARG:H	6	1.31
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	4	1.31
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	5	1.31
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	5	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD1	7	1.31
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD2	7	1.31
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD1	7	1.31
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD2	7	1.31
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD1	7	1.31
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD2	7	1.31
(1,1383)	1:B:114:ILE:H	1:B:114:ILE:HG12	2	1.31
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	5	1.31
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	5	1.31
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	4	1.3
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	4	1.3
(1,520)	1:A:115:SER:HA	1:A:104:HIS:HE1	7	1.3
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	3	1.3
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	9	1.3
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	4	1.3
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	4	1.3
(1,1387)	1:B:115:SER:HA	1:B:104:HIS:HE1	7	1.3
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	3	1.3
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	9	1.3
(1,516)	1:A:114:ILE:H	1:A:114:ILE:HG12	7	1.29
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	9	1.29
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	9	1.29
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	9	1.29
(1,258)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	6	1.29
(1,258)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	6	1.29
(1,258)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	6	1.29
(1,257)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	6	1.29
(1,257)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	6	1.29
(1,257)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	6	1.29
(1,170)	1:A:83:HIS:H	1:A:81:VAL:HB	7	1.29
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	9	1.29
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	9	1.29
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	9	1.29
(1,1125)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	6	1.29
(1,1125)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	6	1.29
(1,1125)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	6	1.29
(1,1124)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	6	1.29
(1,1124)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	6	1.29
(1,1124)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	6	1.29
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	1	1.29
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	1	1.29
(1,1037)	1:B:83:HIS:H	1:B:81:VAL:HB	7	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,953)	1:B:77:VAL:HG21	1:B:75:PHE:HZ	1	1.28
(1,953)	1:B:77:VAL:HG22	1:B:75:PHE:HZ	1	1.28
(1,953)	1:B:77:VAL:HG23	1:B:75:PHE:HZ	1	1.28
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE1	3	1.28
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE2	3	1.28
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE1	3	1.28
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE2	3	1.28
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE1	3	1.28
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE2	3	1.28
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	6	1.28
(1,258)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	8	1.28
(1,258)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	8	1.28
(1,258)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	8	1.28
(1,257)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	8	1.28
(1,257)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	8	1.28
(1,257)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	8	1.28
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	1	1.28
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	1	1.28
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE1	3	1.28
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE2	3	1.28
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE1	3	1.28
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE2	3	1.28
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE1	3	1.28
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE2	3	1.28
(1,1383)	1:B:114:ILE:H	1:B:114:ILE:HG12	7	1.28
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	6	1.28
(1,1125)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	8	1.28
(1,1125)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	8	1.28
(1,1125)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	8	1.28
(1,1124)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	8	1.28
(1,1124)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	8	1.28
(1,1124)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	8	1.28
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	9	1.27
(1,550)	1:A:118:PHE:HE1	1:A:102:GLY:H	6	1.27
(1,550)	1:A:118:PHE:HE2	1:A:102:GLY:H	6	1.27
(1,509)	1:A:114:ILE:HG21	1:A:109:ASP:H	4	1.27
(1,509)	1:A:114:ILE:HG22	1:A:109:ASP:H	4	1.27
(1,509)	1:A:114:ILE:HG23	1:A:109:ASP:H	4	1.27
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	9	1.27
(1,1417)	1:B:118:PHE:HE1	1:B:102:GLY:H	6	1.27
(1,1417)	1:B:118:PHE:HE2	1:B:102:GLY:H	6	1.27
(1,1376)	1:B:114:ILE:HG21	1:B:109:ASP:H	4	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1376)	1:B:114:ILE:HG22	1:B:109:ASP:H	4	1.27
(1,1376)	1:B:114:ILE:HG23	1:B:109:ASP:H	4	1.27
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE1	8	1.27
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE2	8	1.27
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD1	9	1.26
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD2	9	1.26
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD1	9	1.26
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD2	9	1.26
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD1	9	1.26
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD2	9	1.26
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD1	9	1.26
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD2	9	1.26
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD1	9	1.26
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD2	9	1.26
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD1	9	1.26
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD2	9	1.26
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	8	1.26
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	8	1.26
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	8	1.26
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	2	1.26
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	2	1.26
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE1	8	1.26
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE2	8	1.26
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	1	1.26
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	1	1.26
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	1	1.26
(1,435)	1:A:107:ARG:HB3	1:A:109:ASP:H	4	1.26
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD1	7	1.26
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD2	7	1.26
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD1	7	1.26
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD2	7	1.26
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD1	7	1.26
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD2	7	1.26
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	8	1.26
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	8	1.26
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	8	1.26
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	1	1.26
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	1	1.26
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	1	1.26
(1,1302)	1:B:107:ARG:HB3	1:B:109:ASP:H	4	1.26
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD1	7	1.26
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD2	7	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD1	7	1.26
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD2	7	1.26
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD1	7	1.26
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD2	7	1.26
(1,949)	1:B:77:VAL:HG21	1:B:68:MET:HA	2	1.25
(1,949)	1:B:77:VAL:HG22	1:B:68:MET:HA	2	1.25
(1,949)	1:B:77:VAL:HG23	1:B:68:MET:HA	2	1.25
(1,82)	1:A:77:VAL:HG21	1:A:68:MET:HA	2	1.25
(1,82)	1:A:77:VAL:HG22	1:A:68:MET:HA	2	1.25
(1,82)	1:A:77:VAL:HG23	1:A:68:MET:HA	2	1.25
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	8	1.25
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	8	1.25
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	8	1.25
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	1	1.25
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	1	1.25
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB2	4	1.25
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB3	4	1.25
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB2	4	1.25
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB3	4	1.25
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB2	4	1.25
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB3	4	1.25
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	2	1.25
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	2	1.25
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	1	1.25
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	1	1.25
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB2	4	1.25
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB3	4	1.25
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB2	4	1.25
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB3	4	1.25
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB2	4	1.25
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB3	4	1.25
(1,993)	1:B:78:ASN:H	1:B:78:ASN:HD22	9	1.24
(1,99)	1:A:77:VAL:HG21	1:A:78:ASN:HB2	3	1.24
(1,99)	1:A:77:VAL:HG22	1:A:78:ASN:HB2	3	1.24
(1,99)	1:A:77:VAL:HG23	1:A:78:ASN:HB2	3	1.24
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB2	3	1.24
(1,298)	1:A:95:GLY:HA2	1:A:94:LEU:HB3	3	1.24
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	4	1.24
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	4	1.24
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	4	1.24
(1,195)	1:A:84:PHE:HD1	1:A:84:PHE:H	9	1.24
(1,195)	1:A:84:PHE:HD2	1:A:84:PHE:H	9	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,194)	1:A:84:PHE:HD1	1:A:83:HIS:H	9	1.24
(1,194)	1:A:84:PHE:HD2	1:A:83:HIS:H	9	1.24
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	8	1.24
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	8	1.24
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	8	1.24
(1,126)	1:A:78:ASN:H	1:A:78:ASN:HD22	9	1.24
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB2	3	1.24
(1,1165)	1:B:95:GLY:HA2	1:B:94:LEU:HB3	3	1.24
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	4	1.24
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	4	1.24
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	4	1.24
(1,1062)	1:B:84:PHE:HD1	1:B:84:PHE:H	9	1.24
(1,1062)	1:B:84:PHE:HD2	1:B:84:PHE:H	9	1.24
(1,1061)	1:B:84:PHE:HD1	1:B:83:HIS:H	9	1.24
(1,1061)	1:B:84:PHE:HD2	1:B:83:HIS:H	9	1.24
(1,99)	1:A:77:VAL:HG21	1:A:78:ASN:HB2	4	1.23
(1,99)	1:A:77:VAL:HG22	1:A:78:ASN:HB2	4	1.23
(1,99)	1:A:77:VAL:HG23	1:A:78:ASN:HB2	4	1.23
(1,99)	1:A:77:VAL:HG21	1:A:78:ASN:HB2	8	1.23
(1,99)	1:A:77:VAL:HG22	1:A:78:ASN:HB2	8	1.23
(1,99)	1:A:77:VAL:HG23	1:A:78:ASN:HB2	8	1.23
(1,966)	1:B:77:VAL:HG21	1:B:78:ASN:HB2	3	1.23
(1,966)	1:B:77:VAL:HG22	1:B:78:ASN:HB2	3	1.23
(1,966)	1:B:77:VAL:HG23	1:B:78:ASN:HB2	3	1.23
(1,966)	1:B:77:VAL:HG21	1:B:78:ASN:HB2	4	1.23
(1,966)	1:B:77:VAL:HG22	1:B:78:ASN:HB2	4	1.23
(1,966)	1:B:77:VAL:HG23	1:B:78:ASN:HB2	4	1.23
(1,966)	1:B:77:VAL:HG21	1:B:78:ASN:HB2	8	1.23
(1,966)	1:B:77:VAL:HG22	1:B:78:ASN:HB2	8	1.23
(1,966)	1:B:77:VAL:HG23	1:B:78:ASN:HB2	8	1.23
(1,818)	1:A:145:VAL:HG11	1:A:145:VAL:H	3	1.23
(1,818)	1:A:145:VAL:HG12	1:A:145:VAL:H	3	1.23
(1,818)	1:A:145:VAL:HG13	1:A:145:VAL:H	3	1.23
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	5	1.23
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	5	1.23
(1,236)	1:A:89:LEU:HD21	1:A:85:SER:HB3	6	1.23
(1,236)	1:A:89:LEU:HD22	1:A:85:SER:HB3	6	1.23
(1,236)	1:A:89:LEU:HD23	1:A:85:SER:HB3	6	1.23
(1,1685)	1:B:145:VAL:HG11	1:B:145:VAL:H	3	1.23
(1,1685)	1:B:145:VAL:HG12	1:B:145:VAL:H	3	1.23
(1,1685)	1:B:145:VAL:HG13	1:B:145:VAL:H	3	1.23
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	5	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	5	1.23
(1,1103)	1:B:89:LEU:HD21	1:B:85:SER:HB3	6	1.23
(1,1103)	1:B:89:LEU:HD22	1:B:85:SER:HB3	6	1.23
(1,1103)	1:B:89:LEU:HD23	1:B:85:SER:HB3	6	1.23
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	1	1.23
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	1	1.23
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	1	1.23
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	1	1.23
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	6	1.22
(1,98)	1:A:77:VAL:HG11	1:A:77:VAL:H	9	1.22
(1,98)	1:A:77:VAL:HG12	1:A:77:VAL:H	9	1.22
(1,98)	1:A:77:VAL:HG13	1:A:77:VAL:H	9	1.22
(1,965)	1:B:77:VAL:HG11	1:B:77:VAL:H	9	1.22
(1,965)	1:B:77:VAL:HG12	1:B:77:VAL:H	9	1.22
(1,965)	1:B:77:VAL:HG13	1:B:77:VAL:H	9	1.22
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD1	8	1.22
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD2	8	1.22
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD1	8	1.22
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD2	8	1.22
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD1	8	1.22
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD2	8	1.22
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD1	8	1.22
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD2	8	1.22
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD1	8	1.22
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD2	8	1.22
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD1	8	1.22
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD2	8	1.22
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	1	1.22
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	1	1.22
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	1	1.22
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	1	1.22
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	2	1.22
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	2	1.22
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	6	1.22
(1,993)	1:B:78:ASN:H	1:B:78:ASN:HD22	2	1.21
(1,639)	1:A:124:ILE:HD11	1:A:128:VAL:H	4	1.21
(1,639)	1:A:124:ILE:HD12	1:A:128:VAL:H	4	1.21
(1,639)	1:A:124:ILE:HD13	1:A:128:VAL:H	4	1.21
(1,595)	1:A:122:TYR:HD1	1:A:122:TYR:H	9	1.21
(1,595)	1:A:122:TYR:HD2	1:A:122:TYR:H	9	1.21
(1,551)	1:A:118:PHE:HD1	1:A:103:LYS:HA	6	1.21
(1,551)	1:A:118:PHE:HD2	1:A:103:LYS:HA	6	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	6	1.21
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	7	1.21
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	7	1.21
(1,1462)	1:B:122:TYR:HD1	1:B:122:TYR:H	9	1.21
(1,1462)	1:B:122:TYR:HD2	1:B:122:TYR:H	9	1.21
(1,1418)	1:B:118:PHE:HD1	1:B:103:LYS:HA	6	1.21
(1,1418)	1:B:118:PHE:HD2	1:B:103:LYS:HA	6	1.21
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	6	1.21
(1,126)	1:A:78:ASN:H	1:A:78:ASN:HD22	2	1.21
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	7	1.21
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	7	1.21
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	6	1.2
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	6	1.2
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	6	1.2
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	6	1.2
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	6	1.2
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	6	1.2
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	6	1.2
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	6	1.2
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	6	1.2
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	6	1.2
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	6	1.2
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	6	1.2
(1,507)	1:A:114:ILE:HD11	1:A:107:ARG:HD3	9	1.2
(1,507)	1:A:114:ILE:HD12	1:A:107:ARG:HD3	9	1.2
(1,507)	1:A:114:ILE:HD13	1:A:107:ARG:HD3	9	1.2
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	2	1.2
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	2	1.2
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	2	1.2
(1,170)	1:A:83:HIS:H	1:A:81:VAL:HB	1	1.2
(1,1506)	1:B:124:ILE:HD11	1:B:128:VAL:H	4	1.2
(1,1506)	1:B:124:ILE:HD12	1:B:128:VAL:H	4	1.2
(1,1506)	1:B:124:ILE:HD13	1:B:128:VAL:H	4	1.2
(1,1374)	1:B:114:ILE:HD11	1:B:107:ARG:HD3	9	1.2
(1,1374)	1:B:114:ILE:HD12	1:B:107:ARG:HD3	9	1.2
(1,1374)	1:B:114:ILE:HD13	1:B:107:ARG:HD3	9	1.2
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	2	1.2
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	2	1.2
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	2	1.2
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	9	1.2
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	9	1.2
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	9	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	2	1.2
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	2	1.2
(1,1037)	1:B:83:HIS:H	1:B:81:VAL:HB	1	1.2
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	3	1.19
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	3	1.19
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	3	1.19
(1,568)	1:A:119:HIS:HB3	1:A:101:HIS:HA	3	1.19
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	6	1.19
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	6	1.19
(1,516)	1:A:114:ILE:H	1:A:114:ILE:HG12	9	1.19
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD1	3	1.19
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD2	3	1.19
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD1	3	1.19
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD2	3	1.19
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD1	3	1.19
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD2	3	1.19
(1,267)	1:A:90:LYS:HB2	1:A:101:HIS:HB3	2	1.19
(1,267)	1:A:90:LYS:HB3	1:A:101:HIS:HB3	2	1.19
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	9	1.19
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	9	1.19
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	9	1.19
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	2	1.19
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	2	1.19
(1,190)	1:A:84:PHE:HE1	1:A:82:LYS:H	8	1.19
(1,190)	1:A:84:PHE:HE2	1:A:82:LYS:H	8	1.19
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	4	1.19
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	3	1.19
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	3	1.19
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	3	1.19
(1,1435)	1:B:119:HIS:HB3	1:B:101:HIS:HA	3	1.19
(1,1383)	1:B:114:ILE:H	1:B:114:ILE:HG12	9	1.19
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD1	3	1.19
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD2	3	1.19
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD1	3	1.19
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD2	3	1.19
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD1	3	1.19
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD2	3	1.19
(1,1134)	1:B:90:LYS:HB2	1:B:101:HIS:HB3	2	1.19
(1,1134)	1:B:90:LYS:HB3	1:B:101:HIS:HB3	2	1.19
(1,976)	1:B:77:VAL:HG21	1:B:79:LEU:H	3	1.18
(1,976)	1:B:77:VAL:HG22	1:B:79:LEU:H	3	1.18
(1,976)	1:B:77:VAL:HG23	1:B:79:LEU:H	3	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	1	1.18
(1,734)	1:A:135:SER:H	1:A:134:THR:HB	2	1.18
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE1	5	1.18
(1,444)	1:A:108:GLN:HA	1:A:113:PHE:HE2	5	1.18
(1,365)	1:A:100:VAL:HG11	1:A:102:GLY:H	5	1.18
(1,365)	1:A:100:VAL:HG12	1:A:102:GLY:H	5	1.18
(1,365)	1:A:100:VAL:HG13	1:A:102:GLY:H	5	1.18
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	5	1.18
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	5	1.18
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	1	1.18
(1,1601)	1:B:135:SER:H	1:B:134:THR:HB	2	1.18
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	5	1.18
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	5	1.18
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	5	1.18
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB2	7	1.18
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB3	7	1.18
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB2	7	1.18
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB3	7	1.18
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB2	7	1.18
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB3	7	1.18
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	6	1.18
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	6	1.18
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE1	5	1.18
(1,1311)	1:B:108:GLN:HA	1:B:113:PHE:HE2	5	1.18
(1,1232)	1:B:100:VAL:HG11	1:B:102:GLY:H	5	1.18
(1,1232)	1:B:100:VAL:HG12	1:B:102:GLY:H	5	1.18
(1,1232)	1:B:100:VAL:HG13	1:B:102:GLY:H	5	1.18
(1,109)	1:A:77:VAL:HG21	1:A:79:LEU:H	3	1.18
(1,109)	1:A:77:VAL:HG22	1:A:79:LEU:H	3	1.18
(1,109)	1:A:77:VAL:HG23	1:A:79:LEU:H	3	1.18
(1,1057)	1:B:84:PHE:HE1	1:B:82:LYS:H	8	1.18
(1,1057)	1:B:84:PHE:HE2	1:B:82:LYS:H	8	1.18
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB2	7	1.18
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB3	7	1.18
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB2	7	1.18
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB3	7	1.18
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB2	7	1.18
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB3	7	1.18
(1,966)	1:B:77:VAL:HG21	1:B:78:ASN:HB2	7	1.17
(1,966)	1:B:77:VAL:HG22	1:B:78:ASN:HB2	7	1.17
(1,966)	1:B:77:VAL:HG23	1:B:78:ASN:HB2	7	1.17
(1,949)	1:B:77:VAL:HG21	1:B:68:MET:HA	4	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,949)	1:B:77:VAL:HG22	1:B:68:MET:HA	4	1.17
(1,949)	1:B:77:VAL:HG23	1:B:68:MET:HA	4	1.17
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG2	6	1.17
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG3	6	1.17
(1,82)	1:A:77:VAL:HG21	1:A:68:MET:HA	4	1.17
(1,82)	1:A:77:VAL:HG22	1:A:68:MET:HA	4	1.17
(1,82)	1:A:77:VAL:HG23	1:A:68:MET:HA	4	1.17
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	5	1.17
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	5	1.17
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	5	1.17
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG2	6	1.17
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG3	6	1.17
(1,568)	1:A:119:HIS:HB3	1:A:101:HIS:HA	8	1.17
(1,397)	1:A:103:LYS:HG2	1:A:116:ARG:H	5	1.17
(1,397)	1:A:103:LYS:HG3	1:A:116:ARG:H	5	1.17
(1,1750)	1:A:115:SER:HB2	1:B:119:HIS:HE1	4	1.17
(1,1435)	1:B:119:HIS:HB3	1:B:101:HIS:HA	8	1.17
(1,1264)	1:B:103:LYS:HG2	1:B:116:ARG:H	5	1.17
(1,1264)	1:B:103:LYS:HG3	1:B:116:ARG:H	5	1.17
(1,99)	1:A:77:VAL:HG21	1:A:78:ASN:HB2	7	1.16
(1,99)	1:A:77:VAL:HG22	1:A:78:ASN:HB2	7	1.16
(1,99)	1:A:77:VAL:HG23	1:A:78:ASN:HB2	7	1.16
(1,976)	1:B:77:VAL:HG21	1:B:79:LEU:H	5	1.16
(1,976)	1:B:77:VAL:HG22	1:B:79:LEU:H	5	1.16
(1,976)	1:B:77:VAL:HG23	1:B:79:LEU:H	5	1.16
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD11	5	1.16
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD12	5	1.16
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD13	5	1.16
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD11	5	1.16
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD12	5	1.16
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD13	5	1.16
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	1	1.16
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	1	1.16
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	1	1.16
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	1	1.16
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	1	1.16
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	1	1.16
(1,734)	1:A:135:SER:H	1:A:134:THR:HB	3	1.16
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	1	1.16
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	1	1.16
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	1	1.16
(1,551)	1:A:118:PHE:HD1	1:A:103:LYS:HA	8	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,551)	1:A:118:PHE:HD2	1:A:103:LYS:HA	8	1.16
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	1	1.16
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	1	1.16
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	1	1.16
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	1	1.16
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	1	1.16
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	1	1.16
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	8	1.16
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	8	1.16
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	8	1.16
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	8	1.16
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	8	1.16
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	8	1.16
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	4	1.16
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	4	1.16
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	4	1.16
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD21	4	1.16
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD22	4	1.16
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD23	4	1.16
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD21	4	1.16
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD22	4	1.16
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD23	4	1.16
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	8	1.16
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	8	1.16
(1,1750)	1:A:115:SER:HB2	1:B:119:HIS:HE1	5	1.16
(1,1740)	1:A:113:PHE:HD1	1:B:121:LYS:H	9	1.16
(1,1740)	1:A:113:PHE:HD2	1:B:121:LYS:H	9	1.16
(1,1601)	1:B:135:SER:H	1:B:134:THR:HB	3	1.16
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	1	1.16
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	1	1.16
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	1	1.16
(1,1482)	1:B:124:ILE:HB	1:B:97:VAL:HA	6	1.16
(1,1418)	1:B:118:PHE:HD1	1:B:103:LYS:HA	8	1.16
(1,1418)	1:B:118:PHE:HD2	1:B:103:LYS:HA	8	1.16
(1,1383)	1:B:114:ILE:H	1:B:114:ILE:HG12	6	1.16
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	4	1.16
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	4	1.16
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	4	1.16
(1,109)	1:A:77:VAL:HG21	1:A:79:LEU:H	5	1.16
(1,109)	1:A:77:VAL:HG22	1:A:79:LEU:H	5	1.16
(1,109)	1:A:77:VAL:HG23	1:A:79:LEU:H	5	1.16
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD21	4	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD22	4	1.16
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD23	4	1.16
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD21	4	1.16
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD22	4	1.16
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD23	4	1.16
(1,949)	1:B:77:VAL:HG21	1:B:68:MET:HA	9	1.15
(1,949)	1:B:77:VAL:HG22	1:B:68:MET:HA	9	1.15
(1,949)	1:B:77:VAL:HG23	1:B:68:MET:HA	9	1.15
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	8	1.15
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	8	1.15
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	8	1.15
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	8	1.15
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	8	1.15
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	8	1.15
(1,82)	1:A:77:VAL:HG21	1:A:68:MET:HA	1	1.15
(1,82)	1:A:77:VAL:HG22	1:A:68:MET:HA	1	1.15
(1,82)	1:A:77:VAL:HG23	1:A:68:MET:HA	1	1.15
(1,82)	1:A:77:VAL:HG21	1:A:68:MET:HA	9	1.15
(1,82)	1:A:77:VAL:HG22	1:A:68:MET:HA	9	1.15
(1,82)	1:A:77:VAL:HG23	1:A:68:MET:HA	9	1.15
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	9	1.15
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	9	1.15
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	9	1.15
(1,615)	1:A:124:ILE:HB	1:A:97:VAL:HA	6	1.15
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	9	1.15
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	9	1.15
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	9	1.15
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD11	5	1.15
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD12	5	1.15
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD13	5	1.15
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD11	5	1.15
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD12	5	1.15
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD13	5	1.15
(1,516)	1:A:114:ILE:H	1:A:114:ILE:HG12	3	1.15
(1,516)	1:A:114:ILE:H	1:A:114:ILE:HG12	6	1.15
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	8	1.15
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	8	1.15
(1,365)	1:A:100:VAL:HG11	1:A:102:GLY:H	3	1.15
(1,365)	1:A:100:VAL:HG12	1:A:102:GLY:H	3	1.15
(1,365)	1:A:100:VAL:HG13	1:A:102:GLY:H	3	1.15
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	7	1.15
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE1	2	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE2	2	1.15
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	9	1.15
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	9	1.15
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	9	1.15
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	9	1.15
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	9	1.15
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	9	1.15
(1,1383)	1:B:114:ILE:H	1:B:114:ILE:HG12	3	1.15
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	8	1.15
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	8	1.15
(1,1232)	1:B:100:VAL:HG11	1:B:102:GLY:H	3	1.15
(1,1232)	1:B:100:VAL:HG12	1:B:102:GLY:H	3	1.15
(1,1232)	1:B:100:VAL:HG13	1:B:102:GLY:H	3	1.15
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	7	1.15
(1,949)	1:B:77:VAL:HG21	1:B:68:MET:HA	1	1.14
(1,949)	1:B:77:VAL:HG22	1:B:68:MET:HA	1	1.14
(1,949)	1:B:77:VAL:HG23	1:B:68:MET:HA	1	1.14
(1,943)	1:B:76:SER:HB3	1:B:146:ASP:HA	3	1.14
(1,906)	1:B:74:ARG:HG2	1:B:73:ASP:H	5	1.14
(1,906)	1:B:74:ARG:HG3	1:B:73:ASP:H	5	1.14
(1,76)	1:A:76:SER:HB3	1:A:146:ASP:HA	3	1.14
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	8	1.14
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG11	5	1.14
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG12	5	1.14
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG13	5	1.14
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG21	5	1.14
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG22	5	1.14
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG23	5	1.14
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	1	1.14
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	1	1.14
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	7	1.14
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	7	1.14
(1,397)	1:A:103:LYS:HG2	1:A:116:ARG:H	7	1.14
(1,397)	1:A:103:LYS:HG3	1:A:116:ARG:H	7	1.14
(1,39)	1:A:74:ARG:HG2	1:A:73:ASP:H	5	1.14
(1,39)	1:A:74:ARG:HG3	1:A:73:ASP:H	5	1.14
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD1	4	1.14
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD2	4	1.14
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD1	4	1.14
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD2	4	1.14
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD1	4	1.14
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD2	4	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	8	1.14
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG11	5	1.14
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG12	5	1.14
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG13	5	1.14
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG21	5	1.14
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG22	5	1.14
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG23	5	1.14
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	1	1.14
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	1	1.14
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	7	1.14
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	7	1.14
(1,1264)	1:B:103:LYS:HG2	1:B:116:ARG:H	7	1.14
(1,1264)	1:B:103:LYS:HG3	1:B:116:ARG:H	7	1.14
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	9	1.13
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	1	1.13
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	1	1.13
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	3	1.13
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	7	1.13
(1,605)	1:A:123:ARG:HD2	1:A:98:ILE:H	8	1.13
(1,605)	1:A:123:ARG:HD3	1:A:98:ILE:H	8	1.13
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	1	1.13
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	1	1.13
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD1	4	1.13
(1,165)	1:A:81:VAL:HG21	1:A:118:PHE:HD2	4	1.13
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD1	4	1.13
(1,165)	1:A:81:VAL:HG22	1:A:118:PHE:HD2	4	1.13
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD1	4	1.13
(1,165)	1:A:81:VAL:HG23	1:A:118:PHE:HD2	4	1.13
(1,1595)	1:B:133:ILE:HG12	1:B:147:GLY:HA2	2	1.13
(1,1595)	1:B:133:ILE:HG13	1:B:147:GLY:HA2	2	1.13
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	3	1.13
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	7	1.13
(1,1472)	1:B:123:ARG:HD2	1:B:98:ILE:H	8	1.13
(1,1472)	1:B:123:ARG:HD3	1:B:98:ILE:H	8	1.13
(1,1374)	1:B:114:ILE:HD11	1:B:107:ARG:HD3	6	1.13
(1,1374)	1:B:114:ILE:HD12	1:B:107:ARG:HD3	6	1.13
(1,1374)	1:B:114:ILE:HD13	1:B:107:ARG:HD3	6	1.13
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	9	1.13
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD1	4	1.13
(1,1032)	1:B:81:VAL:HG21	1:B:118:PHE:HD2	4	1.13
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD1	4	1.13
(1,1032)	1:B:81:VAL:HG22	1:B:118:PHE:HD2	4	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD1	4	1.13
(1,1032)	1:B:81:VAL:HG23	1:B:118:PHE:HD2	4	1.13
(1,99)	1:A:77:VAL:HG21	1:A:78:ASN:HB2	1	1.12
(1,99)	1:A:77:VAL:HG22	1:A:78:ASN:HB2	1	1.12
(1,99)	1:A:77:VAL:HG23	1:A:78:ASN:HB2	1	1.12
(1,966)	1:B:77:VAL:HG21	1:B:78:ASN:HB2	1	1.12
(1,966)	1:B:77:VAL:HG22	1:B:78:ASN:HB2	1	1.12
(1,966)	1:B:77:VAL:HG23	1:B:78:ASN:HB2	1	1.12
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	4	1.12
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	4	1.12
(1,728)	1:A:133:ILE:HG12	1:A:147:GLY:HA2	2	1.12
(1,728)	1:A:133:ILE:HG13	1:A:147:GLY:HA2	2	1.12
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	4	1.12
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	4	1.12
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	4	1.12
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	1	1.12
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	1	1.12
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	1	1.12
(1,563)	1:A:118:PHE:HB2	1:A:118:PHE:H	8	1.12
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG2	3	1.12
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG3	3	1.12
(1,507)	1:A:114:ILE:HD11	1:A:107:ARG:HD3	2	1.12
(1,507)	1:A:114:ILE:HD12	1:A:107:ARG:HD3	2	1.12
(1,507)	1:A:114:ILE:HD13	1:A:107:ARG:HD3	2	1.12
(1,507)	1:A:114:ILE:HD11	1:A:107:ARG:HD3	5	1.12
(1,507)	1:A:114:ILE:HD12	1:A:107:ARG:HD3	5	1.12
(1,507)	1:A:114:ILE:HD13	1:A:107:ARG:HD3	5	1.12
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB2	2	1.12
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB3	2	1.12
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	3	1.12
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	3	1.12
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	1	1.12
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	3	1.12
(1,236)	1:A:89:LEU:HD21	1:A:85:SER:HB3	4	1.12
(1,236)	1:A:89:LEU:HD22	1:A:85:SER:HB3	4	1.12
(1,236)	1:A:89:LEU:HD23	1:A:85:SER:HB3	4	1.12
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	4	1.12
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	4	1.12
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE1	5	1.12
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE2	5	1.12
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE1	5	1.12
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE2	5	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE1	5	1.12
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE2	5	1.12
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	4	1.12
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	4	1.12
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	4	1.12
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	4	1.12
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	4	1.12
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	1	1.12
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	1	1.12
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	1	1.12
(1,1430)	1:B:118:PHE:HB2	1:B:118:PHE:H	8	1.12
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG2	3	1.12
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG3	3	1.12
(1,1374)	1:B:114:ILE:HD11	1:B:107:ARG:HD3	1	1.12
(1,1374)	1:B:114:ILE:HD12	1:B:107:ARG:HD3	1	1.12
(1,1374)	1:B:114:ILE:HD13	1:B:107:ARG:HD3	1	1.12
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB2	2	1.12
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB3	2	1.12
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	3	1.12
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	3	1.12
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	1	1.12
(1,1103)	1:B:89:LEU:HD21	1:B:85:SER:HB3	4	1.12
(1,1103)	1:B:89:LEU:HD22	1:B:85:SER:HB3	4	1.12
(1,1103)	1:B:89:LEU:HD23	1:B:85:SER:HB3	4	1.12
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE1	2	1.11
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE2	2	1.11
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE1	2	1.11
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE2	2	1.11
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE1	2	1.11
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE2	2	1.11
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	5	1.11
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	5	1.11
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	7	1.11
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	7	1.11
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	7	1.11
(1,563)	1:A:118:PHE:HB2	1:A:118:PHE:H	2	1.11
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD11	4	1.11
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD12	4	1.11
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD13	4	1.11
(1,507)	1:A:114:ILE:HD11	1:A:107:ARG:HD3	1	1.11
(1,507)	1:A:114:ILE:HD12	1:A:107:ARG:HD3	1	1.11
(1,507)	1:A:114:ILE:HD13	1:A:107:ARG:HD3	1	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,507)	1:A:114:ILE:HD11	1:A:107:ARG:HD3	6	1.11
(1,507)	1:A:114:ILE:HD12	1:A:107:ARG:HD3	6	1.11
(1,507)	1:A:114:ILE:HD13	1:A:107:ARG:HD3	6	1.11
(1,238)	1:A:89:LEU:HD11	1:A:85:SER:H	1	1.11
(1,238)	1:A:89:LEU:HD12	1:A:85:SER:H	1	1.11
(1,238)	1:A:89:LEU:HD13	1:A:85:SER:H	1	1.11
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	8	1.11
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	8	1.11
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	5	1.11
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	5	1.11
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	7	1.11
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	7	1.11
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	7	1.11
(1,1430)	1:B:118:PHE:HB2	1:B:118:PHE:H	2	1.11
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD11	4	1.11
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD12	4	1.11
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD13	4	1.11
(1,1374)	1:B:114:ILE:HD11	1:B:107:ARG:HD3	2	1.11
(1,1374)	1:B:114:ILE:HD12	1:B:107:ARG:HD3	2	1.11
(1,1374)	1:B:114:ILE:HD13	1:B:107:ARG:HD3	2	1.11
(1,1374)	1:B:114:ILE:HD11	1:B:107:ARG:HD3	5	1.11
(1,1374)	1:B:114:ILE:HD12	1:B:107:ARG:HD3	5	1.11
(1,1374)	1:B:114:ILE:HD13	1:B:107:ARG:HD3	5	1.11
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB2	2	1.11
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB3	2	1.11
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	3	1.11
(1,1105)	1:B:89:LEU:HD11	1:B:85:SER:H	1	1.11
(1,1105)	1:B:89:LEU:HD12	1:B:85:SER:H	1	1.11
(1,1105)	1:B:89:LEU:HD13	1:B:85:SER:H	1	1.11
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	6	1.1
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	7	1.1
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	7	1.1
(1,517)	1:A:114:ILE:H	1:A:114:ILE:HG13	8	1.1
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	6	1.1
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	6	1.1
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	6	1.1
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB2	2	1.1
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB3	2	1.1
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	6	1.1
(1,260)	1:A:89:LEU:HD21	1:A:103:LYS:H	4	1.1
(1,260)	1:A:89:LEU:HD22	1:A:103:LYS:H	4	1.1
(1,260)	1:A:89:LEU:HD23	1:A:103:LYS:H	4	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	6	1.1
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	6	1.1
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	6	1.1
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	8	1.1
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	8	1.1
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	8	1.1
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	6	1.1
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	7	1.1
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	7	1.1
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	6	1.1
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	6	1.1
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	6	1.1
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE1	2	1.1
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE2	2	1.1
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE1	2	1.1
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE2	2	1.1
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE1	2	1.1
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE2	2	1.1
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	6	1.1
(1,1127)	1:B:89:LEU:HD21	1:B:103:LYS:H	4	1.1
(1,1127)	1:B:89:LEU:HD22	1:B:103:LYS:H	4	1.1
(1,1127)	1:B:89:LEU:HD23	1:B:103:LYS:H	4	1.1
(1,943)	1:B:76:SER:HB3	1:B:146:ASP:HA	8	1.09
(1,936)	1:B:76:SER:HB3	1:B:146:ASP:HA	3	1.09
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	3	1.09
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	3	1.09
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	2	1.09
(1,76)	1:A:76:SER:HB3	1:A:146:ASP:HA	8	1.09
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	6	1.09
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	6	1.09
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	6	1.09
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	8	1.09
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	8	1.09
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	8	1.09
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE1	6	1.09
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE2	6	1.09
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE1	6	1.09
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE2	6	1.09
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE1	6	1.09
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE2	6	1.09
(1,69)	1:A:76:SER:HB3	1:A:146:ASP:HA	3	1.09
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	1	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	2	1.09
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	4	1.09
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	9	1.09
(1,516)	1:A:114:ILE:H	1:A:114:ILE:HG12	5	1.09
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	4	1.09
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	4	1.09
(1,260)	1:A:89:LEU:HD21	1:A:103:LYS:H	7	1.09
(1,260)	1:A:89:LEU:HD22	1:A:103:LYS:H	7	1.09
(1,260)	1:A:89:LEU:HD23	1:A:103:LYS:H	7	1.09
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	3	1.09
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	3	1.09
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	2	1.09
(1,170)	1:A:83:HIS:H	1:A:81:VAL:HB	6	1.09
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE1	6	1.09
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE2	6	1.09
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE1	6	1.09
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE2	6	1.09
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE1	6	1.09
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE2	6	1.09
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	1	1.09
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	2	1.09
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	4	1.09
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	9	1.09
(1,1384)	1:B:114:ILE:H	1:B:114:ILE:HG13	8	1.09
(1,1383)	1:B:114:ILE:H	1:B:114:ILE:HG12	5	1.09
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	4	1.09
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	4	1.09
(1,1127)	1:B:89:LEU:HD21	1:B:103:LYS:H	7	1.09
(1,1127)	1:B:89:LEU:HD22	1:B:103:LYS:H	7	1.09
(1,1127)	1:B:89:LEU:HD23	1:B:103:LYS:H	7	1.09
(1,1103)	1:B:89:LEU:HD21	1:B:85:SER:HB3	8	1.09
(1,1103)	1:B:89:LEU:HD22	1:B:85:SER:HB3	8	1.09
(1,1103)	1:B:89:LEU:HD23	1:B:85:SER:HB3	8	1.09
(1,1037)	1:B:83:HIS:H	1:B:81:VAL:HB	6	1.09
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	2	1.08
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	2	1.08
(1,652)	1:A:125:PRO:HD3	1:A:124:ILE:HA	5	1.08
(1,507)	1:A:114:ILE:HD11	1:A:107:ARG:HD3	3	1.08
(1,507)	1:A:114:ILE:HD12	1:A:107:ARG:HD3	3	1.08
(1,507)	1:A:114:ILE:HD13	1:A:107:ARG:HD3	3	1.08
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	5	1.08
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	5	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	5	1.08
(1,296)	1:A:94:LEU:H	1:A:99:GLU:H	8	1.08
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	8	1.08
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	8	1.08
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	2	1.08
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	2	1.08
(1,236)	1:A:89:LEU:HD21	1:A:85:SER:HB3	8	1.08
(1,236)	1:A:89:LEU:HD22	1:A:85:SER:HB3	8	1.08
(1,236)	1:A:89:LEU:HD23	1:A:85:SER:HB3	8	1.08
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	4	1.08
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	4	1.08
(1,1519)	1:B:125:PRO:HD3	1:B:124:ILE:HA	5	1.08
(1,1374)	1:B:114:ILE:HD11	1:B:107:ARG:HD3	3	1.08
(1,1374)	1:B:114:ILE:HD12	1:B:107:ARG:HD3	3	1.08
(1,1374)	1:B:114:ILE:HD13	1:B:107:ARG:HD3	3	1.08
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	5	1.08
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	5	1.08
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	5	1.08
(1,1163)	1:B:94:LEU:H	1:B:99:GLU:H	8	1.08
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	8	1.08
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	8	1.08
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE1	3	1.07
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE2	3	1.07
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE1	3	1.07
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE2	3	1.07
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE1	3	1.07
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE2	3	1.07
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	2	1.07
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	2	1.07
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	8	1.07
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	8	1.07
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	7	1.07
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	7	1.07
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	9	1.07
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	9	1.07
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	6	1.07
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	6	1.07
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	6	1.07
(1,365)	1:A:100:VAL:HG11	1:A:102:GLY:H	8	1.07
(1,365)	1:A:100:VAL:HG12	1:A:102:GLY:H	8	1.07
(1,365)	1:A:100:VAL:HG13	1:A:102:GLY:H	8	1.07
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	1	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	1	1.07
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	1	1.07
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	1	1.07
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	1	1.07
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	1	1.07
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	8	1.07
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	2	1.07
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	2	1.07
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	8	1.07
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	8	1.07
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	7	1.07
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	7	1.07
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	9	1.07
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	9	1.07
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD1	8	1.07
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD2	8	1.07
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD1	8	1.07
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD2	8	1.07
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD1	8	1.07
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD2	8	1.07
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	6	1.07
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	6	1.07
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	6	1.07
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	8	1.07
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	8	1.07
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	8	1.07
(1,1232)	1:B:100:VAL:HG11	1:B:102:GLY:H	8	1.07
(1,1232)	1:B:100:VAL:HG12	1:B:102:GLY:H	8	1.07
(1,1232)	1:B:100:VAL:HG13	1:B:102:GLY:H	8	1.07
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	1	1.07
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	1	1.07
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	1	1.07
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	1	1.07
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	1	1.07
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	1	1.07
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	3	1.07
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE1	3	1.07
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE2	3	1.07
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE1	3	1.07
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE2	3	1.07
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE1	3	1.07
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE2	3	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD1	8	1.07
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD2	8	1.07
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD1	8	1.07
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD2	8	1.07
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD1	8	1.07
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD2	8	1.07
(1,99)	1:A:77:VAL:HG21	1:A:78:ASN:HB2	2	1.06
(1,99)	1:A:77:VAL:HG22	1:A:78:ASN:HB2	2	1.06
(1,99)	1:A:77:VAL:HG23	1:A:78:ASN:HB2	2	1.06
(1,966)	1:B:77:VAL:HG21	1:B:78:ASN:HB2	2	1.06
(1,966)	1:B:77:VAL:HG22	1:B:78:ASN:HB2	2	1.06
(1,966)	1:B:77:VAL:HG23	1:B:78:ASN:HB2	2	1.06
(1,943)	1:B:76:SER:HB3	1:B:146:ASP:HA	4	1.06
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	4	1.06
(1,76)	1:A:76:SER:HB3	1:A:146:ASP:HA	4	1.06
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	6	1.06
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	6	1.06
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	8	1.06
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	8	1.06
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	8	1.06
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	9	1.06
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	3	1.06
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	3	1.06
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	3	1.06
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	3	1.06
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	3	1.06
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	3	1.06
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	3	1.06
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	5	1.06
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	3	1.06
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	3	1.06
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	4	1.06
(1,1482)	1:B:124:ILE:HB	1:B:97:VAL:HA	1	1.06
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	6	1.06
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	6	1.06
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	9	1.06
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	3	1.06
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	3	1.06
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	3	1.06
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	3	1.06
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	3	1.06
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	3	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	5	1.06
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE1	7	1.05
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE2	7	1.05
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE1	7	1.05
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE2	7	1.05
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE1	7	1.05
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE2	7	1.05
(1,949)	1:B:77:VAL:HG21	1:B:68:MET:HA	5	1.05
(1,949)	1:B:77:VAL:HG22	1:B:68:MET:HA	5	1.05
(1,949)	1:B:77:VAL:HG23	1:B:68:MET:HA	5	1.05
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	2	1.05
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	2	1.05
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	3	1.05
(1,82)	1:A:77:VAL:HG21	1:A:68:MET:HA	5	1.05
(1,82)	1:A:77:VAL:HG22	1:A:68:MET:HA	5	1.05
(1,82)	1:A:77:VAL:HG23	1:A:68:MET:HA	5	1.05
(1,615)	1:A:124:ILE:HB	1:A:97:VAL:HA	1	1.05
(1,600)	1:A:122:TYR:HA	1:A:123:ARG:HB3	7	1.05
(1,563)	1:A:118:PHE:HB2	1:A:118:PHE:H	6	1.05
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD11	8	1.05
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD12	8	1.05
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD13	8	1.05
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD11	8	1.05
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD12	8	1.05
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD13	8	1.05
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	9	1.05
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	9	1.05
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	7	1.05
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	7	1.05
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	7	1.05
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	2	1.05
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	2	1.05
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	3	1.05
(1,1467)	1:B:122:TYR:HA	1:B:123:ARG:HB3	7	1.05
(1,1430)	1:B:118:PHE:HB2	1:B:118:PHE:H	6	1.05
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD11	8	1.05
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD12	8	1.05
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD13	8	1.05
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD11	8	1.05
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD12	8	1.05
(1,1393)	1:B:115:SER:HA	1:B:114:ILE:HD13	8	1.05
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	9	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	9	1.05
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE1	7	1.05
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE2	7	1.05
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE1	7	1.05
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE2	7	1.05
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE1	7	1.05
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE2	7	1.05
(1,936)	1:B:76:SER:HB3	1:B:146:ASP:HA	8	1.04
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	8	1.04
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	8	1.04
(1,69)	1:A:76:SER:HB3	1:A:146:ASP:HA	8	1.04
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	7	1.04
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	5	1.04
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	4	1.04
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	4	1.04
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	8	1.04
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	6	1.04
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	8	1.04
(1,170)	1:A:83:HIS:H	1:A:81:VAL:HB	8	1.04
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB2	1	1.04
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB3	1	1.04
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB2	1	1.04
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB3	1	1.04
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB2	1	1.04
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB3	1	1.04
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	7	1.04
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	5	1.04
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	7	1.04
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	7	1.04
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	7	1.04
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD1	4	1.04
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD2	4	1.04
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD1	4	1.04
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD2	4	1.04
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD1	4	1.04
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD2	4	1.04
(1,1037)	1:B:83:HIS:H	1:B:81:VAL:HB	8	1.04
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB2	1	1.04
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB3	1	1.04
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB2	1	1.04
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB3	1	1.04
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB2	1	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB3	1	1.04
(1,976)	1:B:77:VAL:HG21	1:B:79:LEU:H	8	1.03
(1,976)	1:B:77:VAL:HG22	1:B:79:LEU:H	8	1.03
(1,976)	1:B:77:VAL:HG23	1:B:79:LEU:H	8	1.03
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	8	1.03
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	8	1.03
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	6	1.03
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	5	1.03
(1,563)	1:A:118:PHE:HB2	1:A:118:PHE:H	1	1.03
(1,1430)	1:B:118:PHE:HB2	1:B:118:PHE:H	1	1.03
(1,109)	1:A:77:VAL:HG21	1:A:79:LEU:H	8	1.03
(1,109)	1:A:77:VAL:HG22	1:A:79:LEU:H	8	1.03
(1,109)	1:A:77:VAL:HG23	1:A:79:LEU:H	8	1.03
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	6	1.03
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	6	1.03
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG11	2	1.02
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG12	2	1.02
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG13	2	1.02
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG11	2	1.02
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG12	2	1.02
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG13	2	1.02
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG11	2	1.02
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG12	2	1.02
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG13	2	1.02
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	9	1.02
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	9	1.02
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	9	1.02
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	9	1.02
(1,365)	1:A:100:VAL:HG11	1:A:102:GLY:H	6	1.02
(1,365)	1:A:100:VAL:HG12	1:A:102:GLY:H	6	1.02
(1,365)	1:A:100:VAL:HG13	1:A:102:GLY:H	6	1.02
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	5	1.02
(1,246)	1:A:89:LEU:H	1:A:89:LEU:HG	3	1.02
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	6	1.02
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	6	1.02
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	6	1.02
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	6	1.02
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	8	1.02
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	8	1.02
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	5	1.02
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	9	1.02
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	9	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	9	1.02
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	9	1.02
(1,1232)	1:B:100:VAL:HG11	1:B:102:GLY:H	6	1.02
(1,1232)	1:B:100:VAL:HG12	1:B:102:GLY:H	6	1.02
(1,1232)	1:B:100:VAL:HG13	1:B:102:GLY:H	6	1.02
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	5	1.02
(1,1113)	1:B:89:LEU:H	1:B:89:LEU:HG	3	1.02
(1,936)	1:B:76:SER:HB3	1:B:146:ASP:HA	4	1.01
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG2	1	1.01
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG3	1	1.01
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	6	1.01
(1,69)	1:A:76:SER:HB3	1:A:146:ASP:HA	4	1.01
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG2	1	1.01
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG3	1	1.01
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG21	1	1.01
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG22	1	1.01
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG23	1	1.01
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG21	1	1.01
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG22	1	1.01
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG23	1	1.01
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	1	1.01
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	2	1.01
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	1	1.01
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	1	1.01
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	5	1.01
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	5	1.01
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	6	1.01
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG21	1	1.01
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG22	1	1.01
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG23	1	1.01
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG21	1	1.01
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG22	1	1.01
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG23	1	1.01
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	1	1.01
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	5	1.01
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	2	1.01
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	1	1.01
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	1	1.01
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	5	1.01
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	5	1.01
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD1	4	1.0
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD2	4	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD1	4	1.0
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD2	4	1.0
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD1	4	1.0
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD2	4	1.0
(1,943)	1:B:76:SER:HB3	1:B:146:ASP:HA	7	1.0
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD11	1	1.0
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD12	1	1.0
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD13	1	1.0
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD21	1	1.0
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD22	1	1.0
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD23	1	1.0
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD11	1	1.0
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD12	1	1.0
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD13	1	1.0
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD21	1	1.0
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD22	1	1.0
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD23	1	1.0
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD11	1	1.0
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD12	1	1.0
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD13	1	1.0
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD21	1	1.0
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD22	1	1.0
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD23	1	1.0
(1,76)	1:A:76:SER:HB3	1:A:146:ASP:HA	7	1.0
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	8	1.0
(1,739)	1:A:135:SER:HB3	1:A:145:VAL:HA	8	1.0
(1,728)	1:A:133:ILE:HG12	1:A:147:GLY:HA2	3	1.0
(1,728)	1:A:133:ILE:HG13	1:A:147:GLY:HA2	3	1.0
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	7	1.0
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	7	1.0
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	3	1.0
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	3	1.0
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	9	1.0
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	9	1.0
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	5	1.0
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	6	1.0
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	8	1.0
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	9	1.0
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	8	1.0
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	4	1.0
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	4	1.0
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	3	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	3	1.0
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	8	1.0
(1,1606)	1:B:135:SER:HB3	1:B:145:VAL:HA	8	1.0
(1,1595)	1:B:133:ILE:HG12	1:B:147:GLY:HA2	3	1.0
(1,1595)	1:B:133:ILE:HG13	1:B:147:GLY:HA2	3	1.0
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	7	1.0
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	7	1.0
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	3	1.0
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	3	1.0
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	9	1.0
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	9	1.0
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	6	1.0
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	8	1.0
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	9	1.0
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	8	1.0
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD11	1	1.0
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD12	1	1.0
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD13	1	1.0
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD21	1	1.0
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD22	1	1.0
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD23	1	1.0
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD11	1	1.0
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD12	1	1.0
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD13	1	1.0
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD21	1	1.0
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD22	1	1.0
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD23	1	1.0
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD11	1	1.0
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD12	1	1.0
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD13	1	1.0
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD21	1	1.0
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD22	1	1.0
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD23	1	1.0
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	4	1.0
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	4	1.0
(1,950)	1:B:77:VAL:HG11	1:B:68:MET:HA	1	0.99
(1,950)	1:B:77:VAL:HG12	1:B:68:MET:HA	1	0.99
(1,950)	1:B:77:VAL:HG13	1:B:68:MET:HA	1	0.99
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG2	2	0.99
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG3	2	0.99
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG2	3	0.99
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG3	3	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG2	8	0.99
(1,873)	1:B:67:GLU:H	1:B:67:GLU:HG3	8	0.99
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD1	4	0.99
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD2	4	0.99
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD1	4	0.99
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD2	4	0.99
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD1	4	0.99
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD2	4	0.99
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE1	9	0.99
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE2	9	0.99
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE1	9	0.99
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE2	9	0.99
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE1	9	0.99
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE2	9	0.99
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG2	2	0.99
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG3	2	0.99
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG2	3	0.99
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG3	3	0.99
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG2	8	0.99
(1,6)	1:A:67:GLU:H	1:A:67:GLU:HG3	8	0.99
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	4	0.99
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	4	0.99
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	4	0.99
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	4	0.99
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	1	0.99
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	1	0.99
(1,397)	1:A:103:LYS:HG2	1:A:116:ARG:H	4	0.99
(1,397)	1:A:103:LYS:HG3	1:A:116:ARG:H	4	0.99
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	2	0.99
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	4	0.99
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	7	0.99
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB2	8	0.99
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB3	8	0.99
(1,194)	1:A:84:PHE:HD1	1:A:83:HIS:H	1	0.99
(1,194)	1:A:84:PHE:HD2	1:A:83:HIS:H	1	0.99
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE1	9	0.99
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE2	9	0.99
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE1	9	0.99
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE2	9	0.99
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE1	9	0.99
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE2	9	0.99
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	4	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	4	0.99
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	4	0.99
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	4	0.99
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	1	0.99
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	1	0.99
(1,1264)	1:B:103:LYS:HG2	1:B:116:ARG:H	4	0.99
(1,1264)	1:B:103:LYS:HG3	1:B:116:ARG:H	4	0.99
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	2	0.99
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	4	0.99
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	7	0.99
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB2	8	0.99
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB3	8	0.99
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG11	2	0.99
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG12	2	0.99
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG13	2	0.99
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG11	2	0.99
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG12	2	0.99
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG13	2	0.99
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG11	2	0.99
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG12	2	0.99
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG13	2	0.99
(1,1061)	1:B:84:PHE:HD1	1:B:83:HIS:H	1	0.99
(1,1061)	1:B:84:PHE:HD2	1:B:83:HIS:H	1	0.99
(1,83)	1:A:77:VAL:HG11	1:A:68:MET:HA	1	0.98
(1,83)	1:A:77:VAL:HG12	1:A:68:MET:HA	1	0.98
(1,83)	1:A:77:VAL:HG13	1:A:68:MET:HA	1	0.98
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	7	0.98
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	7	0.98
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	7	0.98
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD11	4	0.98
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD12	4	0.98
(1,603)	1:A:122:TYR:HA	1:A:124:ILE:HD13	4	0.98
(1,570)	1:A:119:HIS:HA	1:A:101:HIS:HB3	2	0.98
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG21	3	0.98
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG22	3	0.98
(1,440)	1:A:107:ARG:HB2	1:A:114:ILE:HG23	3	0.98
(1,386)	1:A:102:GLY:HA2	1:A:102:GLY:HA3	3	0.98
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	4	0.98
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG21	7	0.98
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG22	7	0.98
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG23	7	0.98
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	7	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	7	0.98
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	7	0.98
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD11	4	0.98
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD12	4	0.98
(1,1470)	1:B:122:TYR:HA	1:B:124:ILE:HD13	4	0.98
(1,1437)	1:B:119:HIS:HA	1:B:101:HIS:HB3	2	0.98
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG21	3	0.98
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG22	3	0.98
(1,1307)	1:B:107:ARG:HB2	1:B:114:ILE:HG23	3	0.98
(1,1253)	1:B:102:GLY:HA2	1:B:102:GLY:HA3	3	0.98
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	4	0.98
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG21	7	0.98
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG22	7	0.98
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG23	7	0.98
(1,97)	1:A:77:VAL:HG21	1:A:77:VAL:H	4	0.97
(1,97)	1:A:77:VAL:HG22	1:A:77:VAL:H	4	0.97
(1,97)	1:A:77:VAL:HG23	1:A:77:VAL:H	4	0.97
(1,964)	1:B:77:VAL:HG21	1:B:77:VAL:H	4	0.97
(1,964)	1:B:77:VAL:HG22	1:B:77:VAL:H	4	0.97
(1,964)	1:B:77:VAL:HG23	1:B:77:VAL:H	4	0.97
(1,953)	1:B:77:VAL:HG21	1:B:75:PHE:HZ	3	0.97
(1,953)	1:B:77:VAL:HG22	1:B:75:PHE:HZ	3	0.97
(1,953)	1:B:77:VAL:HG23	1:B:75:PHE:HZ	3	0.97
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	2	0.97
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	2	0.97
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	2	0.97
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	2	0.97
(1,568)	1:A:119:HIS:HB3	1:A:101:HIS:HA	7	0.97
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	4	0.97
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	4	0.97
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	1	0.97
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	1	0.97
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD1	1	0.97
(1,342)	1:A:98:ILE:HD11	1:A:122:TYR:HD2	1	0.97
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD1	1	0.97
(1,342)	1:A:98:ILE:HD12	1:A:122:TYR:HD2	1	0.97
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD1	1	0.97
(1,342)	1:A:98:ILE:HD13	1:A:122:TYR:HD2	1	0.97
(1,236)	1:A:89:LEU:HD21	1:A:85:SER:HB3	7	0.97
(1,236)	1:A:89:LEU:HD22	1:A:85:SER:HB3	7	0.97
(1,236)	1:A:89:LEU:HD23	1:A:85:SER:HB3	7	0.97
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	8	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	8	0.97
(1,1472)	1:B:123:ARG:HD2	1:B:98:ILE:H	3	0.97
(1,1472)	1:B:123:ARG:HD3	1:B:98:ILE:H	3	0.97
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	2	0.97
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	2	0.97
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	2	0.97
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	2	0.97
(1,1435)	1:B:119:HIS:HB3	1:B:101:HIS:HA	7	0.97
(1,140)	1:A:79:LEU:HD11	1:A:79:LEU:H	9	0.97
(1,140)	1:A:79:LEU:HD12	1:A:79:LEU:H	9	0.97
(1,140)	1:A:79:LEU:HD13	1:A:79:LEU:H	9	0.97
(1,140)	1:A:79:LEU:HD21	1:A:79:LEU:H	9	0.97
(1,140)	1:A:79:LEU:HD22	1:A:79:LEU:H	9	0.97
(1,140)	1:A:79:LEU:HD23	1:A:79:LEU:H	9	0.97
(1,139)	1:A:79:LEU:HD11	1:A:79:LEU:H	9	0.97
(1,139)	1:A:79:LEU:HD12	1:A:79:LEU:H	9	0.97
(1,139)	1:A:79:LEU:HD13	1:A:79:LEU:H	9	0.97
(1,139)	1:A:79:LEU:HD21	1:A:79:LEU:H	9	0.97
(1,139)	1:A:79:LEU:HD22	1:A:79:LEU:H	9	0.97
(1,139)	1:A:79:LEU:HD23	1:A:79:LEU:H	9	0.97
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	1	0.97
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	1	0.97
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB2	5	0.97
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB3	5	0.97
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD1	1	0.97
(1,1209)	1:B:98:ILE:HD11	1:B:122:TYR:HD2	1	0.97
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD1	1	0.97
(1,1209)	1:B:98:ILE:HD12	1:B:122:TYR:HD2	1	0.97
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD1	1	0.97
(1,1209)	1:B:98:ILE:HD13	1:B:122:TYR:HD2	1	0.97
(1,1103)	1:B:89:LEU:HD21	1:B:85:SER:HB3	7	0.97
(1,1103)	1:B:89:LEU:HD22	1:B:85:SER:HB3	7	0.97
(1,1103)	1:B:89:LEU:HD23	1:B:85:SER:HB3	7	0.97
(1,1007)	1:B:79:LEU:HD11	1:B:79:LEU:H	9	0.97
(1,1007)	1:B:79:LEU:HD12	1:B:79:LEU:H	9	0.97
(1,1007)	1:B:79:LEU:HD13	1:B:79:LEU:H	9	0.97
(1,1007)	1:B:79:LEU:HD21	1:B:79:LEU:H	9	0.97
(1,1007)	1:B:79:LEU:HD22	1:B:79:LEU:H	9	0.97
(1,1007)	1:B:79:LEU:HD23	1:B:79:LEU:H	9	0.97
(1,1006)	1:B:79:LEU:HD11	1:B:79:LEU:H	9	0.97
(1,1006)	1:B:79:LEU:HD12	1:B:79:LEU:H	9	0.97
(1,1006)	1:B:79:LEU:HD13	1:B:79:LEU:H	9	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1006)	1:B:79:LEU:HD21	1:B:79:LEU:H	9	0.97
(1,1006)	1:B:79:LEU:HD22	1:B:79:LEU:H	9	0.97
(1,1006)	1:B:79:LEU:HD23	1:B:79:LEU:H	9	0.97
(1,964)	1:B:77:VAL:HG21	1:B:77:VAL:H	8	0.96
(1,964)	1:B:77:VAL:HG22	1:B:77:VAL:H	8	0.96
(1,964)	1:B:77:VAL:HG23	1:B:77:VAL:H	8	0.96
(1,739)	1:A:135:SER:HB3	1:A:145:VAL:HA	9	0.96
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	5	0.96
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	5	0.96
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	5	0.96
(1,605)	1:A:123:ARG:HD2	1:A:98:ILE:H	3	0.96
(1,605)	1:A:123:ARG:HD3	1:A:98:ILE:H	3	0.96
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB2	5	0.96
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB3	5	0.96
(1,258)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	2	0.96
(1,258)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	2	0.96
(1,258)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	2	0.96
(1,257)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	2	0.96
(1,257)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	2	0.96
(1,257)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	2	0.96
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD1	5	0.96
(1,217)	1:A:86:PRO:HB2	1:A:84:PHE:HD2	5	0.96
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD1	5	0.96
(1,217)	1:A:86:PRO:HB3	1:A:84:PHE:HD2	5	0.96
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	8	0.96
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	8	0.96
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	4	0.96
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	4	0.96
(1,1606)	1:B:135:SER:HB3	1:B:145:VAL:HA	9	0.96
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	5	0.96
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	5	0.96
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	5	0.96
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	4	0.96
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	4	0.96
(1,1125)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	2	0.96
(1,1125)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	2	0.96
(1,1125)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	2	0.96
(1,1124)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	2	0.96
(1,1124)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	2	0.96
(1,1124)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	2	0.96
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD1	5	0.96
(1,1084)	1:B:86:PRO:HB2	1:B:84:PHE:HD2	5	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD1	5	0.96
(1,1084)	1:B:86:PRO:HB3	1:B:84:PHE:HD2	5	0.96
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	8	0.96
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	8	0.96
(1,993)	1:B:78:ASN:H	1:B:78:ASN:HD22	3	0.95
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD11	4	0.95
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD12	4	0.95
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD13	4	0.95
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD11	4	0.95
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD12	4	0.95
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD13	4	0.95
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD11	4	0.95
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD12	4	0.95
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD13	4	0.95
(1,97)	1:A:77:VAL:HG21	1:A:77:VAL:H	8	0.95
(1,97)	1:A:77:VAL:HG22	1:A:77:VAL:H	8	0.95
(1,97)	1:A:77:VAL:HG23	1:A:77:VAL:H	8	0.95
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	1	0.95
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	1	0.95
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	1	0.95
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	1	0.95
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	1	0.95
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	1	0.95
(1,953)	1:B:77:VAL:HG21	1:B:75:PHE:HZ	2	0.95
(1,953)	1:B:77:VAL:HG22	1:B:75:PHE:HZ	2	0.95
(1,953)	1:B:77:VAL:HG23	1:B:75:PHE:HZ	2	0.95
(1,936)	1:B:76:SER:HB3	1:B:146:ASP:HA	7	0.95
(1,862)	1:A:150:LYS:HG2	1:A:151:GLN:H	4	0.95
(1,862)	1:A:150:LYS:HG3	1:A:151:GLN:H	4	0.95
(1,734)	1:A:135:SER:H	1:A:134:THR:HB	4	0.95
(1,709)	1:A:132:THR:HB	1:A:147:GLY:HA3	8	0.95
(1,69)	1:A:76:SER:HB3	1:A:146:ASP:HA	7	0.95
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	3	0.95
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	3	0.95
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	3	0.95
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	3	0.95
(1,568)	1:A:119:HIS:HB3	1:A:101:HIS:HA	1	0.95
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	4	0.95
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	4	0.95
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	7	0.95
(1,1729)	1:B:150:LYS:HG2	1:B:151:GLN:H	4	0.95
(1,1729)	1:B:150:LYS:HG3	1:B:151:GLN:H	4	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1601)	1:B:135:SER:H	1:B:134:THR:HB	4	0.95
(1,1576)	1:B:132:THR:HB	1:B:147:GLY:HA3	8	0.95
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	3	0.95
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	3	0.95
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	3	0.95
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	3	0.95
(1,1435)	1:B:119:HIS:HB3	1:B:101:HIS:HA	1	0.95
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	4	0.95
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	4	0.95
(1,126)	1:A:78:ASN:H	1:A:78:ASN:HD22	3	0.95
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	7	0.95
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	5	0.94
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	5	0.94
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	5	0.94
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	7	0.94
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	7	0.94
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	7	0.94
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	5	0.94
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	5	0.94
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	5	0.94
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	7	0.94
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	7	0.94
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	7	0.94
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	1	0.94
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	2	0.94
(1,86)	1:A:77:VAL:HG21	1:A:75:PHE:HZ	3	0.94
(1,86)	1:A:77:VAL:HG22	1:A:75:PHE:HZ	3	0.94
(1,86)	1:A:77:VAL:HG23	1:A:75:PHE:HZ	3	0.94
(1,859)	1:A:150:LYS:H	1:A:150:LYS:HG2	7	0.94
(1,859)	1:A:150:LYS:H	1:A:150:LYS:HG3	7	0.94
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD2	6	0.94
(1,849)	1:A:147:GLY:HA2	1:A:148:PRO:HD3	6	0.94
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	2	0.94
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	8	0.94
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	8	0.94
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	8	0.94
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	8	0.94
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	9	0.94
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG2	9	0.94
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG3	9	0.94
(1,507)	1:A:114:ILE:HD11	1:A:107:ARG:HD3	8	0.94
(1,507)	1:A:114:ILE:HD12	1:A:107:ARG:HD3	8	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,507)	1:A:114:ILE:HD13	1:A:107:ARG:HD3	8	0.94
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	6	0.94
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	6	0.94
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	8	0.94
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	8	0.94
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	1	0.94
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	2	0.94
(1,1726)	1:B:150:LYS:H	1:B:150:LYS:HG2	7	0.94
(1,1726)	1:B:150:LYS:H	1:B:150:LYS:HG3	7	0.94
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD2	6	0.94
(1,1716)	1:B:147:GLY:HA2	1:B:148:PRO:HD3	6	0.94
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	7	0.94
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	7	0.94
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	2	0.94
(1,151)	1:A:81:VAL:HG11	1:A:79:LEU:HG	3	0.94
(1,151)	1:A:81:VAL:HG12	1:A:79:LEU:HG	3	0.94
(1,151)	1:A:81:VAL:HG13	1:A:79:LEU:HG	3	0.94
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	8	0.94
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	8	0.94
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	8	0.94
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	8	0.94
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	9	0.94
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG2	9	0.94
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG3	9	0.94
(1,140)	1:A:79:LEU:HD11	1:A:79:LEU:H	5	0.94
(1,140)	1:A:79:LEU:HD12	1:A:79:LEU:H	5	0.94
(1,140)	1:A:79:LEU:HD13	1:A:79:LEU:H	5	0.94
(1,140)	1:A:79:LEU:HD21	1:A:79:LEU:H	5	0.94
(1,140)	1:A:79:LEU:HD22	1:A:79:LEU:H	5	0.94
(1,140)	1:A:79:LEU:HD23	1:A:79:LEU:H	5	0.94
(1,139)	1:A:79:LEU:HD11	1:A:79:LEU:H	5	0.94
(1,139)	1:A:79:LEU:HD12	1:A:79:LEU:H	5	0.94
(1,139)	1:A:79:LEU:HD13	1:A:79:LEU:H	5	0.94
(1,139)	1:A:79:LEU:HD21	1:A:79:LEU:H	5	0.94
(1,139)	1:A:79:LEU:HD22	1:A:79:LEU:H	5	0.94
(1,139)	1:A:79:LEU:HD23	1:A:79:LEU:H	5	0.94
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	6	0.94
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	6	0.94
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	8	0.94
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	8	0.94
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	7	0.94
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	7	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1018)	1:B:81:VAL:HG11	1:B:79:LEU:HG	3	0.94
(1,1018)	1:B:81:VAL:HG12	1:B:79:LEU:HG	3	0.94
(1,1018)	1:B:81:VAL:HG13	1:B:79:LEU:HG	3	0.94
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	2	0.93
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	2	0.93
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	2	0.93
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	3	0.93
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	3	0.93
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	3	0.93
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	6	0.93
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	6	0.93
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	6	0.93
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	8	0.93
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	8	0.93
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	8	0.93
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	2	0.93
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	2	0.93
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	2	0.93
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	3	0.93
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	3	0.93
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	3	0.93
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	4	0.93
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	4	0.93
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	4	0.93
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	6	0.93
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	6	0.93
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	6	0.93
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	8	0.93
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	8	0.93
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	8	0.93
(1,96)	1:A:77:VAL:HG21	1:A:77:VAL:HB	9	0.93
(1,96)	1:A:77:VAL:HG22	1:A:77:VAL:HB	9	0.93
(1,96)	1:A:77:VAL:HG23	1:A:77:VAL:HB	9	0.93
(1,86)	1:A:77:VAL:HG21	1:A:75:PHE:HZ	2	0.93
(1,86)	1:A:77:VAL:HG22	1:A:75:PHE:HZ	2	0.93
(1,86)	1:A:77:VAL:HG23	1:A:75:PHE:HZ	2	0.93
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	6	0.93
(1,739)	1:A:135:SER:HB3	1:A:145:VAL:HA	7	0.93
(1,686)	1:A:129:ASP:H	1:A:132:THR:HG1	8	0.93
(1,600)	1:A:122:TYR:HA	1:A:123:ARG:HB3	3	0.93
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	5	0.93
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	5	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	3	0.93
(1,403)	1:A:104:HIS:HA	1:A:104:HIS:HD2	1	0.93
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG2	1	0.93
(1,319)	1:A:96:ASP:H	1:A:123:ARG:HG3	1	0.93
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	9	0.93
(1,1732)	1:B:151:GLN:H	1:B:151:GLN:HG2	4	0.93
(1,1732)	1:B:151:GLN:H	1:B:151:GLN:HG3	4	0.93
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	5	0.93
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	6	0.93
(1,1606)	1:B:135:SER:HB3	1:B:145:VAL:HA	7	0.93
(1,1467)	1:B:122:TYR:HA	1:B:123:ARG:HB3	3	0.93
(1,1374)	1:B:114:ILE:HD11	1:B:107:ARG:HD3	8	0.93
(1,1374)	1:B:114:ILE:HD12	1:B:107:ARG:HD3	8	0.93
(1,1374)	1:B:114:ILE:HD13	1:B:107:ARG:HD3	8	0.93
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	5	0.93
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	5	0.93
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	3	0.93
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG2	1	0.93
(1,1186)	1:B:96:ASP:H	1:B:123:ARG:HG3	1	0.93
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD11	4	0.93
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD12	4	0.93
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD13	4	0.93
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD11	4	0.93
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD12	4	0.93
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD13	4	0.93
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD11	4	0.93
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD12	4	0.93
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD13	4	0.93
(1,1007)	1:B:79:LEU:HD11	1:B:79:LEU:H	5	0.93
(1,1007)	1:B:79:LEU:HD12	1:B:79:LEU:H	5	0.93
(1,1007)	1:B:79:LEU:HD13	1:B:79:LEU:H	5	0.93
(1,1007)	1:B:79:LEU:HD21	1:B:79:LEU:H	5	0.93
(1,1007)	1:B:79:LEU:HD22	1:B:79:LEU:H	5	0.93
(1,1007)	1:B:79:LEU:HD23	1:B:79:LEU:H	5	0.93
(1,1006)	1:B:79:LEU:HD11	1:B:79:LEU:H	5	0.93
(1,1006)	1:B:79:LEU:HD12	1:B:79:LEU:H	5	0.93
(1,1006)	1:B:79:LEU:HD13	1:B:79:LEU:H	5	0.93
(1,1006)	1:B:79:LEU:HD21	1:B:79:LEU:H	5	0.93
(1,1006)	1:B:79:LEU:HD22	1:B:79:LEU:H	5	0.93
(1,1006)	1:B:79:LEU:HD23	1:B:79:LEU:H	5	0.93
(1,993)	1:B:78:ASN:H	1:B:78:ASN:HD22	5	0.92
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	4	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	4	0.92
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	4	0.92
(1,963)	1:B:77:VAL:HG21	1:B:77:VAL:HB	9	0.92
(1,963)	1:B:77:VAL:HG22	1:B:77:VAL:HB	9	0.92
(1,963)	1:B:77:VAL:HG23	1:B:77:VAL:HB	9	0.92
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	9	0.92
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	9	0.92
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	9	0.92
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	9	0.92
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	9	0.92
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	9	0.92
(1,865)	1:A:151:GLN:H	1:A:151:GLN:HG2	4	0.92
(1,865)	1:A:151:GLN:H	1:A:151:GLN:HG3	4	0.92
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	3	0.92
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	5	0.92
(1,571)	1:A:119:HIS:HA	1:A:101:HIS:HD2	2	0.92
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	9	0.92
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	9	0.92
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	9	0.92
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	9	0.92
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	9	0.92
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	9	0.92
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	9	0.92
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	9	0.92
(1,518)	1:A:114:ILE:HG21	1:A:114:ILE:H	3	0.92
(1,518)	1:A:114:ILE:HG22	1:A:114:ILE:H	3	0.92
(1,518)	1:A:114:ILE:HG23	1:A:114:ILE:H	3	0.92
(1,403)	1:A:104:HIS:HA	1:A:104:HIS:HD2	6	0.92
(1,1749)	1:A:115:SER:HB3	1:B:119:HIS:HE1	4	0.92
(1,1740)	1:A:113:PHE:HD1	1:B:121:LYS:H	3	0.92
(1,1740)	1:A:113:PHE:HD2	1:B:121:LYS:H	3	0.92
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	3	0.92
(1,1438)	1:B:119:HIS:HA	1:B:101:HIS:HD2	2	0.92
(1,1385)	1:B:114:ILE:HG21	1:B:114:ILE:H	3	0.92
(1,1385)	1:B:114:ILE:HG22	1:B:114:ILE:H	3	0.92
(1,1385)	1:B:114:ILE:HG23	1:B:114:ILE:H	3	0.92
(1,1270)	1:B:104:HIS:HA	1:B:104:HIS:HD2	2	0.92
(1,1270)	1:B:104:HIS:HA	1:B:104:HIS:HD2	6	0.92
(1,126)	1:A:78:ASN:H	1:A:78:ASN:HD22	5	0.92
(1,993)	1:B:78:ASN:H	1:B:78:ASN:HD22	4	0.91
(1,953)	1:B:77:VAL:HG21	1:B:75:PHE:HZ	5	0.91
(1,953)	1:B:77:VAL:HG22	1:B:75:PHE:HZ	5	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,953)	1:B:77:VAL:HG23	1:B:75:PHE:HZ	5	0.91
(1,862)	1:A:150:LYS:HG2	1:A:151:GLN:H	3	0.91
(1,862)	1:A:150:LYS:HG3	1:A:151:GLN:H	3	0.91
(1,86)	1:A:77:VAL:HG21	1:A:75:PHE:HZ	5	0.91
(1,86)	1:A:77:VAL:HG22	1:A:75:PHE:HZ	5	0.91
(1,86)	1:A:77:VAL:HG23	1:A:75:PHE:HZ	5	0.91
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	4	0.91
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	5	0.91
(1,563)	1:A:118:PHE:HB2	1:A:118:PHE:H	3	0.91
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	3	0.91
(1,504)	1:A:114:ILE:HD11	1:A:107:ARG:HD2	8	0.91
(1,504)	1:A:114:ILE:HD12	1:A:107:ARG:HD2	8	0.91
(1,504)	1:A:114:ILE:HD13	1:A:107:ARG:HD2	8	0.91
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG21	3	0.91
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG22	3	0.91
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG23	3	0.91
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	5	0.91
(1,1729)	1:B:150:LYS:HG2	1:B:151:GLN:H	3	0.91
(1,1729)	1:B:150:LYS:HG3	1:B:151:GLN:H	3	0.91
(1,1729)	1:B:150:LYS:HG2	1:B:151:GLN:H	6	0.91
(1,1729)	1:B:150:LYS:HG3	1:B:151:GLN:H	6	0.91
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	4	0.91
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	5	0.91
(1,1467)	1:B:122:TYR:HA	1:B:123:ARG:HB3	2	0.91
(1,1430)	1:B:118:PHE:HB2	1:B:118:PHE:H	3	0.91
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	9	0.91
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	9	0.91
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	3	0.91
(1,1371)	1:B:114:ILE:HD11	1:B:107:ARG:HD2	8	0.91
(1,1371)	1:B:114:ILE:HD12	1:B:107:ARG:HD2	8	0.91
(1,1371)	1:B:114:ILE:HD13	1:B:107:ARG:HD2	8	0.91
(1,126)	1:A:78:ASN:H	1:A:78:ASN:HD22	4	0.91
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG21	3	0.91
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG22	3	0.91
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG23	3	0.91
(1,862)	1:A:150:LYS:HG2	1:A:151:GLN:H	6	0.9
(1,862)	1:A:150:LYS:HG3	1:A:151:GLN:H	6	0.9
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	9	0.9
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	9	0.9
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	9	0.9
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	9	0.9
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG11	6	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG12	6	0.9
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG13	6	0.9
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG21	6	0.9
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG22	6	0.9
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG23	6	0.9
(1,600)	1:A:122:TYR:HA	1:A:123:ARG:HB3	2	0.9
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	2	0.9
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	2	0.9
(1,550)	1:A:118:PHE:HE1	1:A:102:GLY:H	5	0.9
(1,550)	1:A:118:PHE:HE2	1:A:102:GLY:H	5	0.9
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	2	0.9
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	2	0.9
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	1	0.9
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	6	0.9
(1,246)	1:A:89:LEU:H	1:A:89:LEU:HG	8	0.9
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	4	0.9
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	9	0.9
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG11	6	0.9
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG12	6	0.9
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG13	6	0.9
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG21	6	0.9
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG22	6	0.9
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG23	6	0.9
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	2	0.9
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	2	0.9
(1,1417)	1:B:118:PHE:HE1	1:B:102:GLY:H	5	0.9
(1,1417)	1:B:118:PHE:HE2	1:B:102:GLY:H	5	0.9
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	2	0.9
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	2	0.9
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	1	0.9
(1,1113)	1:B:89:LEU:H	1:B:89:LEU:HG	8	0.9
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	4	0.9
(1,859)	1:A:150:LYS:H	1:A:150:LYS:HG2	8	0.89
(1,859)	1:A:150:LYS:H	1:A:150:LYS:HG3	8	0.89
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	1	0.89
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	6	0.89
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	7	0.89
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	7	0.89
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	7	0.89
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	7	0.89
(1,550)	1:A:118:PHE:HE1	1:A:102:GLY:H	8	0.89
(1,550)	1:A:118:PHE:HE2	1:A:102:GLY:H	8	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	1	0.89
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	9	0.89
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	4	0.89
(1,246)	1:A:89:LEU:H	1:A:89:LEU:HG	2	0.89
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	6	0.89
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	6	0.89
(1,1761)	1:A:120:ARG:HB2	1:B:111:HIS:H	2	0.89
(1,1761)	1:A:120:ARG:HB3	1:B:111:HIS:H	2	0.89
(1,1729)	1:B:150:LYS:HG2	1:B:151:GLN:H	1	0.89
(1,1729)	1:B:150:LYS:HG3	1:B:151:GLN:H	1	0.89
(1,1726)	1:B:150:LYS:H	1:B:150:LYS:HG2	8	0.89
(1,1726)	1:B:150:LYS:H	1:B:150:LYS:HG3	8	0.89
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	1	0.89
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	6	0.89
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	9	0.89
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	9	0.89
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	9	0.89
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	7	0.89
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	7	0.89
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	7	0.89
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	7	0.89
(1,1417)	1:B:118:PHE:HE1	1:B:102:GLY:H	8	0.89
(1,1417)	1:B:118:PHE:HE2	1:B:102:GLY:H	8	0.89
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	1	0.89
(1,1270)	1:B:104:HIS:HA	1:B:104:HIS:HD2	1	0.89
(1,1270)	1:B:104:HIS:HA	1:B:104:HIS:HD2	9	0.89
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	6	0.89
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	4	0.89
(1,1113)	1:B:89:LEU:H	1:B:89:LEU:HG	2	0.89
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	6	0.89
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	6	0.89
(1,862)	1:A:150:LYS:HG2	1:A:151:GLN:H	1	0.88
(1,862)	1:A:150:LYS:HG3	1:A:151:GLN:H	1	0.88
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	6	0.88
(1,86)	1:A:77:VAL:HG21	1:A:75:PHE:HZ	1	0.88
(1,86)	1:A:77:VAL:HG22	1:A:75:PHE:HZ	1	0.88
(1,86)	1:A:77:VAL:HG23	1:A:75:PHE:HZ	1	0.88
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	4	0.88
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	7	0.88
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	9	0.88
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	6	0.88
(1,734)	1:A:135:SER:H	1:A:134:THR:HB	6	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE1	1	0.88
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE2	1	0.88
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE1	1	0.88
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE2	1	0.88
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE1	1	0.88
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE2	1	0.88
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	4	0.88
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	4	0.88
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	4	0.88
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	4	0.88
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	4	0.88
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	4	0.88
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	4	0.88
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	2	0.88
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	8	0.88
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	9	0.88
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	6	0.88
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG2	1	0.88
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG3	1	0.88
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	2	0.88
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	2	0.88
(1,1748)	1:A:115:SER:HB2	1:B:119:HIS:HB2	9	0.88
(1,1748)	1:A:115:SER:HB2	1:B:119:HIS:HB3	9	0.88
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	1	0.88
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	6	0.88
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	4	0.88
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	7	0.88
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	9	0.88
(1,163)	1:A:81:VAL:HG21	1:A:83:HIS:H	4	0.88
(1,163)	1:A:81:VAL:HG22	1:A:83:HIS:H	4	0.88
(1,163)	1:A:81:VAL:HG23	1:A:83:HIS:H	4	0.88
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	6	0.88
(1,1601)	1:B:135:SER:H	1:B:134:THR:HB	6	0.88
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	2	0.88
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	9	0.88
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	8	0.88
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	9	0.88
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	6	0.88
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG2	1	0.88
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG3	1	0.88
(1,1030)	1:B:81:VAL:HG21	1:B:83:HIS:H	4	0.88
(1,1030)	1:B:81:VAL:HG22	1:B:83:HIS:H	4	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:B:81:VAL:HG23	1:B:83:HIS:H	4	0.88
(1,976)	1:B:77:VAL:HG21	1:B:79:LEU:H	2	0.87
(1,976)	1:B:77:VAL:HG22	1:B:79:LEU:H	2	0.87
(1,976)	1:B:77:VAL:HG23	1:B:79:LEU:H	2	0.87
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	5	0.87
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	1	0.87
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	7	0.87
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	3	0.87
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	3	0.87
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	1	0.87
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD1	7	0.87
(1,619)	1:A:124:ILE:HA	1:A:122:TYR:HD2	7	0.87
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	8	0.87
(1,490)	1:A:113:PHE:HD1	1:A:113:PHE:HB2	7	0.87
(1,490)	1:A:113:PHE:HD2	1:A:113:PHE:HB2	7	0.87
(1,403)	1:A:104:HIS:HA	1:A:104:HIS:HD2	2	0.87
(1,397)	1:A:103:LYS:HG2	1:A:116:ARG:H	6	0.87
(1,397)	1:A:103:LYS:HG3	1:A:116:ARG:H	6	0.87
(1,1756)	1:A:118:PHE:HA	1:B:117:GLU:H	7	0.87
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	5	0.87
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	1	0.87
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	7	0.87
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE1	1	0.87
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE2	1	0.87
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE1	1	0.87
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE2	1	0.87
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE1	1	0.87
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE2	1	0.87
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	3	0.87
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	3	0.87
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	1	0.87
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	4	0.87
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD1	7	0.87
(1,1486)	1:B:124:ILE:HA	1:B:122:TYR:HD2	7	0.87
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	8	0.87
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	9	0.87
(1,1357)	1:B:113:PHE:HD1	1:B:113:PHE:HB2	7	0.87
(1,1357)	1:B:113:PHE:HD2	1:B:113:PHE:HB2	7	0.87
(1,1264)	1:B:103:LYS:HG2	1:B:116:ARG:H	6	0.87
(1,1264)	1:B:103:LYS:HG3	1:B:116:ARG:H	6	0.87
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	2	0.87
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	2	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:A:77:VAL:HG21	1:A:79:LEU:H	2	0.87
(1,109)	1:A:77:VAL:HG22	1:A:79:LEU:H	2	0.87
(1,109)	1:A:77:VAL:HG23	1:A:79:LEU:H	2	0.87
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	3	0.86
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	3	0.86
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	5	0.86
(1,859)	1:A:150:LYS:H	1:A:150:LYS:HG2	2	0.86
(1,859)	1:A:150:LYS:H	1:A:150:LYS:HG3	2	0.86
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	8	0.86
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	2	0.86
(1,734)	1:A:135:SER:H	1:A:134:THR:HB	8	0.86
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	9	0.86
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	9	0.86
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	9	0.86
(1,709)	1:A:132:THR:HB	1:A:147:GLY:HA3	4	0.86
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	8	0.86
(1,568)	1:A:119:HIS:HB3	1:A:101:HIS:HA	4	0.86
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD1	7	0.86
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD2	7	0.86
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD11	4	0.86
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD12	4	0.86
(1,527)	1:A:115:SER:HA	1:A:114:ILE:HD13	4	0.86
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	2	0.86
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	2	0.86
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	5	0.86
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	6	0.86
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	9	0.86
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	2	0.86
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	2	0.86
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	2	0.86
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	4	0.86
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB2	8	0.86
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB3	8	0.86
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	3	0.86
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	3	0.86
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	7	0.86
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	7	0.86
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE1	8	0.86
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE2	8	0.86
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	5	0.86
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	2	0.86
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	8	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	2	0.86
(1,1601)	1:B:135:SER:H	1:B:134:THR:HB	8	0.86
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	9	0.86
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	9	0.86
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	9	0.86
(1,1576)	1:B:132:THR:HB	1:B:147:GLY:HA3	4	0.86
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	8	0.86
(1,1435)	1:B:119:HIS:HB3	1:B:101:HIS:HA	4	0.86
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD1	7	0.86
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD2	7	0.86
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD11	4	0.86
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD12	4	0.86
(1,1394)	1:B:115:SER:HA	1:B:114:ILE:HD13	4	0.86
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	2	0.86
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	2	0.86
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	5	0.86
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	6	0.86
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	2	0.86
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	2	0.86
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	2	0.86
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	4	0.86
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB2	8	0.86
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB3	8	0.86
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	7	0.86
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	7	0.86
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	4	0.85
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	4	0.85
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	9	0.85
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	2	0.85
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	3	0.85
(1,846)	1:A:147:GLY:HA2	1:A:147:GLY:HA3	6	0.85
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE1	5	0.85
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE2	5	0.85
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE1	5	0.85
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE2	5	0.85
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE1	5	0.85
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE2	5	0.85
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	7	0.85
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	1	0.85
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	1	0.85
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	1	0.85
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	1	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	1	0.85
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	1	0.85
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	1	0.85
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	1	0.85
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	1	0.85
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	3	0.85
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	3	0.85
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	2	0.85
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	8	0.85
(1,418)	1:A:105:GLU:HG2	1:A:115:SER:HB3	4	0.85
(1,418)	1:A:105:GLU:HG3	1:A:115:SER:HB3	4	0.85
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG2	6	0.85
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG3	6	0.85
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	9	0.85
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	7	0.85
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	7	0.85
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	7	0.85
(1,243)	1:A:89:LEU:HD11	1:A:88:GLU:H	1	0.85
(1,243)	1:A:89:LEU:HD12	1:A:88:GLU:H	1	0.85
(1,243)	1:A:89:LEU:HD13	1:A:88:GLU:H	1	0.85
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	4	0.85
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	4	0.85
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	8	0.85
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	8	0.85
(1,1750)	1:A:115:SER:HB2	1:B:119:HIS:HE1	2	0.85
(1,1750)	1:A:115:SER:HB2	1:B:119:HIS:HE1	3	0.85
(1,1750)	1:A:115:SER:HB2	1:B:119:HIS:HE1	8	0.85
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	9	0.85
(1,1726)	1:B:150:LYS:H	1:B:150:LYS:HG2	2	0.85
(1,1726)	1:B:150:LYS:H	1:B:150:LYS:HG3	2	0.85
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	3	0.85
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE1	5	0.85
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE2	5	0.85
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE1	5	0.85
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE2	5	0.85
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE1	5	0.85
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE2	5	0.85
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	7	0.85
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	3	0.85
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	3	0.85
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	2	0.85
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	8	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1285)	1:B:105:GLU:HG2	1:B:115:SER:HB3	4	0.85
(1,1285)	1:B:105:GLU:HG3	1:B:115:SER:HB3	4	0.85
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG2	6	0.85
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG3	6	0.85
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	9	0.85
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	7	0.85
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	7	0.85
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	7	0.85
(1,1110)	1:B:89:LEU:HD11	1:B:88:GLU:H	1	0.85
(1,1110)	1:B:89:LEU:HD12	1:B:88:GLU:H	1	0.85
(1,1110)	1:B:89:LEU:HD13	1:B:88:GLU:H	1	0.85
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	8	0.85
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	8	0.85
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	2	0.84
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	2	0.84
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	2	0.84
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	7	0.84
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	4	0.84
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	9	0.84
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	4	0.84
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	3	0.84
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	5	0.84
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG2	9	0.84
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG3	9	0.84
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	7	0.84
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	7	0.84
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	7	0.84
(1,246)	1:A:89:LEU:H	1:A:89:LEU:HG	6	0.84
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	3	0.84
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	3	0.84
(1,1713)	1:B:147:GLY:HA2	1:B:147:GLY:HA3	6	0.84
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	2	0.84
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	2	0.84
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	2	0.84
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	7	0.84
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	4	0.84
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	9	0.84
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	4	0.84
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	3	0.84
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	5	0.84
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	9	0.84
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG2	9	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG3	9	0.84
(1,1250)	1:B:101:HIS:HA	1:B:119:HIS:HD2	9	0.84
(1,1113)	1:B:89:LEU:H	1:B:89:LEU:HG	6	0.84
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	3	0.84
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	3	0.84
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG21	5	0.83
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG22	5	0.83
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG23	5	0.83
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	5	0.83
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	5	0.83
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG21	5	0.83
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG22	5	0.83
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG23	5	0.83
(1,544)	1:A:117:GLU:HA	1:A:103:LYS:HA	3	0.83
(1,543)	1:A:117:GLU:HA	1:A:103:LYS:HA	3	0.83
(1,504)	1:A:114:ILE:HD11	1:A:107:ARG:HD2	3	0.83
(1,504)	1:A:114:ILE:HD12	1:A:107:ARG:HD2	3	0.83
(1,504)	1:A:114:ILE:HD13	1:A:107:ARG:HD2	3	0.83
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	9	0.83
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	1	0.83
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG21	1	0.83
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG22	1	0.83
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG23	1	0.83
(1,236)	1:A:89:LEU:HD21	1:A:85:SER:HB3	1	0.83
(1,236)	1:A:89:LEU:HD22	1:A:85:SER:HB3	1	0.83
(1,236)	1:A:89:LEU:HD23	1:A:85:SER:HB3	1	0.83
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	5	0.83
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	5	0.83
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	1	0.83
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	1	0.83
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	1	0.83
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	1	0.83
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	1	0.83
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	1	0.83
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	1	0.83
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	1	0.83
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	1	0.83
(1,1411)	1:B:117:GLU:HA	1:B:103:LYS:HA	3	0.83
(1,1410)	1:B:117:GLU:HA	1:B:103:LYS:HA	3	0.83
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	1	0.83
(1,1103)	1:B:89:LEU:HD21	1:B:85:SER:HB3	1	0.83
(1,1103)	1:B:89:LEU:HD22	1:B:85:SER:HB3	1	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1103)	1:B:89:LEU:HD23	1:B:85:SER:HB3	1	0.83
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	2	0.82
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	2	0.82
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	2	0.82
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD1	5	0.82
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD2	5	0.82
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD1	5	0.82
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD2	5	0.82
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD1	5	0.82
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD2	5	0.82
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	4	0.82
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	3	0.82
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	4	0.82
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	4	0.82
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	4	0.82
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	4	0.82
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	4	0.82
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	4	0.82
(1,595)	1:A:122:TYR:HD1	1:A:122:TYR:H	1	0.82
(1,595)	1:A:122:TYR:HD2	1:A:122:TYR:H	1	0.82
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	3	0.82
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	4	0.82
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	4	0.82
(1,433)	1:A:107:ARG:HB3	1:A:108:GLN:H	7	0.82
(1,403)	1:A:104:HIS:HA	1:A:104:HIS:HD2	3	0.82
(1,403)	1:A:104:HIS:HA	1:A:104:HIS:HD2	9	0.82
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG2	9	0.82
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG3	9	0.82
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG2	9	0.82
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG3	9	0.82
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	5	0.82
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	5	0.82
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	5	0.82
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	9	0.82
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	9	0.82
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	9	0.82
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	5	0.82
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	5	0.82
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	9	0.82
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	9	0.82
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	9	0.82
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	9	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1733)	1:B:152:VAL:H	1:B:151:GLN:H	7	0.82
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	2	0.82
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	4	0.82
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	3	0.82
(1,1462)	1:B:122:TYR:HD1	1:B:122:TYR:H	1	0.82
(1,1462)	1:B:122:TYR:HD2	1:B:122:TYR:H	1	0.82
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	3	0.82
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	4	0.82
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	4	0.82
(1,1371)	1:B:114:ILE:HD11	1:B:107:ARG:HD2	3	0.82
(1,1371)	1:B:114:ILE:HD12	1:B:107:ARG:HD2	3	0.82
(1,1371)	1:B:114:ILE:HD13	1:B:107:ARG:HD2	3	0.82
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG2	9	0.82
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG3	9	0.82
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG2	9	0.82
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG3	9	0.82
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	2	0.82
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	2	0.82
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	2	0.82
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	5	0.82
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	5	0.82
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	5	0.82
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	7	0.82
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	7	0.82
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	7	0.82
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	9	0.82
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	9	0.82
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	9	0.82
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	2	0.82
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	2	0.82
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	2	0.82
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG21	1	0.82
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG22	1	0.82
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG23	1	0.82
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	5	0.82
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	5	0.82
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	9	0.82
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	9	0.82
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	4	0.81
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	4	0.81
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	4	0.81
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	4	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	4	0.81
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	4	0.81
(1,866)	1:A:152:VAL:H	1:A:151:GLN:H	7	0.81
(1,734)	1:A:135:SER:H	1:A:134:THR:HB	1	0.81
(1,709)	1:A:132:THR:HB	1:A:147:GLY:HA3	7	0.81
(1,600)	1:A:122:TYR:HA	1:A:123:ARG:HB3	1	0.81
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	4	0.81
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	4	0.81
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	5	0.81
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	5	0.81
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	5	0.81
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	5	0.81
(1,383)	1:A:101:HIS:HA	1:A:119:HIS:HD2	9	0.81
(1,346)	1:A:98:ILE:H	1:A:122:TYR:H	2	0.81
(1,345)	1:A:98:ILE:H	1:A:122:TYR:H	2	0.81
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	2	0.81
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	2	0.81
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	2	0.81
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	4	0.81
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	4	0.81
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	4	0.81
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	6	0.81
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	6	0.81
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	6	0.81
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG11	6	0.81
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG12	6	0.81
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG13	6	0.81
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	8	0.81
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	8	0.81
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	4	0.81
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	4	0.81
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	9	0.81
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	9	0.81
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB2	6	0.81
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB3	6	0.81
(1,1768)	1:A:122:TYR:HA	1:B:112:GLY:H	6	0.81
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE1	2	0.81
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE2	2	0.81
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE1	2	0.81
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE2	2	0.81
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE1	2	0.81
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE2	2	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1601)	1:B:135:SER:H	1:B:134:THR:HB	1	0.81
(1,1576)	1:B:132:THR:HB	1:B:147:GLY:HA3	7	0.81
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	4	0.81
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	4	0.81
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	4	0.81
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	4	0.81
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	4	0.81
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	4	0.81
(1,1467)	1:B:122:TYR:HA	1:B:123:ARG:HB3	1	0.81
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	4	0.81
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	4	0.81
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	5	0.81
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	5	0.81
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	5	0.81
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	5	0.81
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	8	0.81
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	8	0.81
(1,1300)	1:B:107:ARG:HB3	1:B:108:GLN:H	7	0.81
(1,1270)	1:B:104:HIS:HA	1:B:104:HIS:HD2	3	0.81
(1,1213)	1:B:98:ILE:H	1:B:122:TYR:H	2	0.81
(1,1212)	1:B:98:ILE:H	1:B:122:TYR:H	2	0.81
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	6	0.81
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	6	0.81
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	6	0.81
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG11	6	0.81
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG12	6	0.81
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG13	6	0.81
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	8	0.81
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	8	0.81
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD1	5	0.81
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD2	5	0.81
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD1	5	0.81
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD2	5	0.81
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD1	5	0.81
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD2	5	0.81
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	4	0.81
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	4	0.81
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	9	0.81
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	9	0.81
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB2	6	0.81
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB3	6	0.81
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	2	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,930)	1:B:76:SER:HB2	1:B:77:VAL:H	9	0.8
(1,917)	1:B:75:PHE:HD1	1:B:75:PHE:H	8	0.8
(1,917)	1:B:75:PHE:HD2	1:B:75:PHE:H	8	0.8
(1,863)	1:A:150:LYS:H	1:A:151:GLN:H	7	0.8
(1,850)	1:A:147:GLY:HA2	1:A:149:ARG:H	8	0.8
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	9	0.8
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	4	0.8
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	4	0.8
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	6	0.8
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	6	0.8
(1,651)	1:A:125:PRO:HD2	1:A:124:ILE:HA	8	0.8
(1,63)	1:A:76:SER:HB2	1:A:77:VAL:H	9	0.8
(1,605)	1:A:123:ARG:HD2	1:A:98:ILE:H	4	0.8
(1,605)	1:A:123:ARG:HD3	1:A:98:ILE:H	4	0.8
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	2	0.8
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	2	0.8
(1,50)	1:A:75:PHE:HD1	1:A:75:PHE:H	8	0.8
(1,50)	1:A:75:PHE:HD2	1:A:75:PHE:H	8	0.8
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	6	0.8
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	7	0.8
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	7	0.8
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	8	0.8
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	8	0.8
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	3	0.8
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	3	0.8
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	3	0.8
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	8	0.8
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	8	0.8
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	8	0.8
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	3	0.8
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	3	0.8
(1,185)	1:A:83:HIS:HB3	1:A:104:HIS:HB2	4	0.8
(1,1739)	1:A:111:HIS:HA	1:B:122:TYR:HE1	1	0.8
(1,1739)	1:A:111:HIS:HA	1:B:122:TYR:HE2	1	0.8
(1,1717)	1:B:147:GLY:HA2	1:B:149:ARG:H	8	0.8
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	9	0.8
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	4	0.8
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	4	0.8
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	6	0.8
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	6	0.8
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	1	0.8
(1,1518)	1:B:125:PRO:HD2	1:B:124:ILE:HA	8	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1472)	1:B:123:ARG:HD2	1:B:98:ILE:H	4	0.8
(1,1472)	1:B:123:ARG:HD3	1:B:98:ILE:H	4	0.8
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	5	0.8
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	5	0.8
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	5	0.8
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	5	0.8
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	2	0.8
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	2	0.8
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	6	0.8
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	7	0.8
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	7	0.8
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	3	0.8
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	3	0.8
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	3	0.8
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	4	0.8
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	4	0.8
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	4	0.8
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	8	0.8
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	8	0.8
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	8	0.8
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	3	0.8
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	3	0.8
(1,1052)	1:B:83:HIS:HB3	1:B:104:HIS:HB2	4	0.8
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	2	0.79
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	2	0.79
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	2	0.79
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	6	0.79
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	6	0.79
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	6	0.79
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	7	0.79
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	7	0.79
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	7	0.79
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE1	3	0.79
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE2	3	0.79
(1,951)	1:B:77:VAL:HG21	1:B:68:MET:HE3	3	0.79
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE1	3	0.79
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE2	3	0.79
(1,951)	1:B:77:VAL:HG22	1:B:68:MET:HE3	3	0.79
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE1	3	0.79
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE2	3	0.79
(1,951)	1:B:77:VAL:HG23	1:B:68:MET:HE3	3	0.79
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE1	3	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE2	3	0.79
(1,946)	1:B:77:VAL:HG21	1:B:68:MET:HE3	3	0.79
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE1	3	0.79
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE2	3	0.79
(1,946)	1:B:77:VAL:HG22	1:B:68:MET:HE3	3	0.79
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE1	3	0.79
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE2	3	0.79
(1,946)	1:B:77:VAL:HG23	1:B:68:MET:HE3	3	0.79
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG21	6	0.79
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG22	6	0.79
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG23	6	0.79
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	2	0.79
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	2	0.79
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	2	0.79
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	6	0.79
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	6	0.79
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	6	0.79
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	7	0.79
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	7	0.79
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	7	0.79
(1,734)	1:A:135:SER:H	1:A:134:THR:HB	5	0.79
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	4	0.79
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	4	0.79
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	4	0.79
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	1	0.79
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	5	0.79
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	7	0.79
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	9	0.79
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG21	6	0.79
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG22	6	0.79
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG23	6	0.79
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	5	0.79
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	5	0.79
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	5	0.79
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	5	0.79
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	8	0.79
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	8	0.79
(1,498)	1:A:113:PHE:HB2	1:A:113:PHE:H	1	0.79
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	1	0.79
(1,385)	1:A:102:GLY:HA2	1:A:84:PHE:HZ	5	0.79
(1,365)	1:A:100:VAL:HG11	1:A:102:GLY:H	1	0.79
(1,365)	1:A:100:VAL:HG12	1:A:102:GLY:H	1	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:A:100:VAL:HG13	1:A:102:GLY:H	1	0.79
(1,338)	1:A:98:ILE:HG21	1:A:98:ILE:HB	1	0.79
(1,338)	1:A:98:ILE:HG22	1:A:98:ILE:HB	1	0.79
(1,338)	1:A:98:ILE:HG23	1:A:98:ILE:HB	1	0.79
(1,246)	1:A:89:LEU:H	1:A:89:LEU:HG	1	0.79
(1,1730)	1:B:150:LYS:H	1:B:151:GLN:H	7	0.79
(1,1601)	1:B:135:SER:H	1:B:134:THR:HB	5	0.79
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	4	0.79
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	4	0.79
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	4	0.79
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	5	0.79
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	7	0.79
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	3	0.79
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	3	0.79
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	3	0.79
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	3	0.79
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	3	0.79
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	3	0.79
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	3	0.79
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	3	0.79
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	3	0.79
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	8	0.79
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	8	0.79
(1,1365)	1:B:113:PHE:HB2	1:B:113:PHE:H	1	0.79
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	1	0.79
(1,1252)	1:B:102:GLY:HA2	1:B:84:PHE:HZ	5	0.79
(1,1232)	1:B:100:VAL:HG11	1:B:102:GLY:H	1	0.79
(1,1232)	1:B:100:VAL:HG12	1:B:102:GLY:H	1	0.79
(1,1232)	1:B:100:VAL:HG13	1:B:102:GLY:H	1	0.79
(1,1205)	1:B:98:ILE:HG21	1:B:98:ILE:HB	1	0.79
(1,1205)	1:B:98:ILE:HG22	1:B:98:ILE:HB	1	0.79
(1,1205)	1:B:98:ILE:HG23	1:B:98:ILE:HB	1	0.79
(1,1113)	1:B:89:LEU:H	1:B:89:LEU:HG	1	0.79
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	8	0.79
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	8	0.79
(1,1024)	1:B:81:VAL:HG21	1:B:81:VAL:H	9	0.79
(1,1024)	1:B:81:VAL:HG22	1:B:81:VAL:H	9	0.79
(1,1024)	1:B:81:VAL:HG23	1:B:81:VAL:H	9	0.79
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	1	0.78
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	1	0.78
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	1	0.78
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	9	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	9	0.78
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	9	0.78
(1,949)	1:B:77:VAL:HG21	1:B:68:MET:HA	6	0.78
(1,949)	1:B:77:VAL:HG22	1:B:68:MET:HA	6	0.78
(1,949)	1:B:77:VAL:HG23	1:B:68:MET:HA	6	0.78
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	1	0.78
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	1	0.78
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	1	0.78
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	9	0.78
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	9	0.78
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	9	0.78
(1,884)	1:B:70:LEU:H	1:B:70:LEU:HB3	8	0.78
(1,82)	1:A:77:VAL:HG21	1:A:68:MET:HA	6	0.78
(1,82)	1:A:77:VAL:HG22	1:A:68:MET:HA	6	0.78
(1,82)	1:A:77:VAL:HG23	1:A:68:MET:HA	6	0.78
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	9	0.78
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	9	0.78
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	6	0.78
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	4	0.78
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	4	0.78
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	4	0.78
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	4	0.78
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	4	0.78
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	4	0.78
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	2	0.78
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	2	0.78
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	5	0.78
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	5	0.78
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	5	0.78
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	5	0.78
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	5	0.78
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	5	0.78
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG11	4	0.78
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG12	4	0.78
(1,269)	1:A:91:VAL:H	1:A:91:VAL:HG13	4	0.78
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	4	0.78
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	4	0.78
(1,17)	1:A:70:LEU:H	1:A:70:LEU:HB3	8	0.78
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD1	1	0.78
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD2	1	0.78
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD1	1	0.78
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD2	1	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD1	1	0.78
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD2	1	0.78
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	8	0.78
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	8	0.78
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	9	0.78
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	9	0.78
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	6	0.78
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	9	0.78
(1,157)	1:A:81:VAL:HG21	1:A:81:VAL:H	9	0.78
(1,157)	1:A:81:VAL:HG22	1:A:81:VAL:H	9	0.78
(1,157)	1:A:81:VAL:HG23	1:A:81:VAL:H	9	0.78
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	7	0.78
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	7	0.78
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	7	0.78
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	7	0.78
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	7	0.78
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	7	0.78
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	7	0.78
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	7	0.78
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	7	0.78
(1,143)	1:A:79:LEU:HG	1:A:80:ASP:H	8	0.78
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	2	0.78
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	2	0.78
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	5	0.78
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	5	0.78
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	5	0.78
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	5	0.78
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	5	0.78
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	5	0.78
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG11	4	0.78
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG12	4	0.78
(1,1136)	1:B:91:VAL:H	1:B:91:VAL:HG13	4	0.78
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	4	0.78
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	4	0.78
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD1	1	0.78
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD2	1	0.78
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD1	1	0.78
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD2	1	0.78
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD1	1	0.78
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD2	1	0.78
(1,1010)	1:B:79:LEU:HG	1:B:80:ASP:H	8	0.78
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	6	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	6	0.77
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	6	0.77
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	3	0.77
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	3	0.77
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	3	0.77
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	4	0.77
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	4	0.77
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	4	0.77
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	5	0.77
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	5	0.77
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	5	0.77
(1,958)	1:B:77:VAL:HG11	1:B:77:VAL:HB	8	0.77
(1,958)	1:B:77:VAL:HG12	1:B:77:VAL:HB	8	0.77
(1,958)	1:B:77:VAL:HG13	1:B:77:VAL:HB	8	0.77
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	6	0.77
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	6	0.77
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	6	0.77
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	3	0.77
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	3	0.77
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	3	0.77
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	4	0.77
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	4	0.77
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	4	0.77
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	5	0.77
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	5	0.77
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	5	0.77
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE1	3	0.77
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE2	3	0.77
(1,84)	1:A:77:VAL:HG21	1:A:68:MET:HE3	3	0.77
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE1	3	0.77
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE2	3	0.77
(1,84)	1:A:77:VAL:HG22	1:A:68:MET:HE3	3	0.77
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE1	3	0.77
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE2	3	0.77
(1,84)	1:A:77:VAL:HG23	1:A:68:MET:HE3	3	0.77
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE1	3	0.77
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE2	3	0.77
(1,79)	1:A:77:VAL:HG21	1:A:68:MET:HE3	3	0.77
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE1	3	0.77
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE2	3	0.77
(1,79)	1:A:77:VAL:HG22	1:A:68:MET:HE3	3	0.77
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE1	3	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE2	3	0.77
(1,79)	1:A:77:VAL:HG23	1:A:68:MET:HE3	3	0.77
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	1	0.77
(1,723)	1:A:133:ILE:HG21	1:A:133:ILE:H	2	0.77
(1,723)	1:A:133:ILE:HG22	1:A:133:ILE:H	2	0.77
(1,723)	1:A:133:ILE:HG23	1:A:133:ILE:H	2	0.77
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	8	0.77
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	8	0.77
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	8	0.77
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	7	0.77
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	7	0.77
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	7	0.77
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	3	0.77
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	3	0.77
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	3	0.77
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	3	0.77
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	3	0.77
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	3	0.77
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	3	0.77
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	3	0.77
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	3	0.77
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	7	0.77
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	7	0.77
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	7	0.77
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	7	0.77
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	7	0.77
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	7	0.77
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	7	0.77
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	7	0.77
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	7	0.77
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	6	0.77
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	6	0.77
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	6	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG11	4	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG12	4	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG13	4	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG21	4	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG22	4	0.77
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG23	4	0.77
(1,579)	1:A:119:HIS:H	1:A:120:ARG:H	3	0.77
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD1	3	0.77
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD2	3	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:A:114:ILE:HG21	1:A:112:GLY:H	7	0.77
(1,511)	1:A:114:ILE:HG22	1:A:112:GLY:H	7	0.77
(1,511)	1:A:114:ILE:HG23	1:A:112:GLY:H	7	0.77
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	3	0.77
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	3	0.77
(1,449)	1:A:109:ASP:HA	1:A:111:HIS:H	8	0.77
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	1	0.77
(1,200)	1:A:84:PHE:HD1	1:A:85:SER:H	1	0.77
(1,200)	1:A:84:PHE:HD2	1:A:85:SER:H	1	0.77
(1,1762)	1:A:122:TYR:HB2	1:B:111:HIS:H	4	0.77
(1,1762)	1:A:122:TYR:HB3	1:B:111:HIS:H	4	0.77
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	1	0.77
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	8	0.77
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	8	0.77
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	8	0.77
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	7	0.77
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	7	0.77
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	7	0.77
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	4	0.77
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	4	0.77
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	4	0.77
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	4	0.77
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	4	0.77
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	4	0.77
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	6	0.77
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	6	0.77
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	6	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG11	4	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG12	4	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG13	4	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG21	4	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG22	4	0.77
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG23	4	0.77
(1,1446)	1:B:119:HIS:H	1:B:120:ARG:H	3	0.77
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD1	3	0.77
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD2	3	0.77
(1,1378)	1:B:114:ILE:HG21	1:B:112:GLY:H	7	0.77
(1,1378)	1:B:114:ILE:HG22	1:B:112:GLY:H	7	0.77
(1,1378)	1:B:114:ILE:HG23	1:B:112:GLY:H	7	0.77
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	3	0.77
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	3	0.77
(1,1316)	1:B:109:ASP:HA	1:B:111:HIS:H	8	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	1	0.77
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	3	0.77
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	3	0.77
(1,1067)	1:B:84:PHE:HD1	1:B:85:SER:H	1	0.77
(1,1067)	1:B:84:PHE:HD2	1:B:85:SER:H	1	0.77
(1,975)	1:B:77:VAL:HG11	1:B:79:LEU:H	2	0.76
(1,975)	1:B:77:VAL:HG12	1:B:79:LEU:H	2	0.76
(1,975)	1:B:77:VAL:HG13	1:B:79:LEU:H	2	0.76
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	2	0.76
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	2	0.76
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	2	0.76
(1,953)	1:B:77:VAL:HG21	1:B:75:PHE:HZ	9	0.76
(1,953)	1:B:77:VAL:HG22	1:B:75:PHE:HZ	9	0.76
(1,953)	1:B:77:VAL:HG23	1:B:75:PHE:HZ	9	0.76
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	6	0.76
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	6	0.76
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	6	0.76
(1,91)	1:A:77:VAL:HG11	1:A:77:VAL:HB	8	0.76
(1,91)	1:A:77:VAL:HG12	1:A:77:VAL:HB	8	0.76
(1,91)	1:A:77:VAL:HG13	1:A:77:VAL:HB	8	0.76
(1,908)	1:B:74:ARG:HG2	1:B:74:ARG:H	5	0.76
(1,908)	1:B:74:ARG:HG3	1:B:74:ARG:H	5	0.76
(1,902)	1:B:73:ASP:H	1:B:74:ARG:HB3	9	0.76
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	6	0.76
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	6	0.76
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	6	0.76
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	7	0.76
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	7	0.76
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	6	0.76
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	6	0.76
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	6	0.76
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	1	0.76
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	2	0.76
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	9	0.76
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	9	0.76
(1,41)	1:A:74:ARG:HG2	1:A:74:ARG:H	5	0.76
(1,41)	1:A:74:ARG:HG3	1:A:74:ARG:H	5	0.76
(1,35)	1:A:73:ASP:H	1:A:74:ARG:HB3	9	0.76
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	7	0.76
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	7	0.76
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	8	0.76
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	8	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	8	0.76
(1,243)	1:A:89:LEU:HD11	1:A:88:GLU:H	6	0.76
(1,243)	1:A:89:LEU:HD12	1:A:88:GLU:H	6	0.76
(1,243)	1:A:89:LEU:HD13	1:A:88:GLU:H	6	0.76
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	3	0.76
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	3	0.76
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	7	0.76
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	7	0.76
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD11	2	0.76
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD12	2	0.76
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD13	2	0.76
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	6	0.76
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	6	0.76
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	6	0.76
(1,1590)	1:B:133:ILE:HG21	1:B:133:ILE:H	2	0.76
(1,1590)	1:B:133:ILE:HG22	1:B:133:ILE:H	2	0.76
(1,1590)	1:B:133:ILE:HG23	1:B:133:ILE:H	2	0.76
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	5	0.76
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	5	0.76
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	5	0.76
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	5	0.76
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	5	0.76
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	5	0.76
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	5	0.76
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	5	0.76
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	5	0.76
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	4	0.76
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	4	0.76
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	4	0.76
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	8	0.76
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	8	0.76
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	8	0.76
(1,143)	1:A:79:LEU:HG	1:A:80:ASP:H	6	0.76
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	1	0.76
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	9	0.76
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	9	0.76
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG21	5	0.76
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG22	5	0.76
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG23	5	0.76
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	8	0.76
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	8	0.76
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	8	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1110)	1:B:89:LEU:HD11	1:B:88:GLU:H	6	0.76
(1,1110)	1:B:89:LEU:HD12	1:B:88:GLU:H	6	0.76
(1,1110)	1:B:89:LEU:HD13	1:B:88:GLU:H	6	0.76
(1,108)	1:A:77:VAL:HG11	1:A:79:LEU:H	2	0.76
(1,108)	1:A:77:VAL:HG12	1:A:79:LEU:H	2	0.76
(1,108)	1:A:77:VAL:HG13	1:A:79:LEU:H	2	0.76
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	2	0.76
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	2	0.76
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	2	0.76
(1,1010)	1:B:79:LEU:HG	1:B:80:ASP:H	6	0.76
(1,973)	1:B:77:VAL:HG11	1:B:79:LEU:HB2	5	0.75
(1,973)	1:B:77:VAL:HG11	1:B:79:LEU:HB3	5	0.75
(1,973)	1:B:77:VAL:HG12	1:B:79:LEU:HB2	5	0.75
(1,973)	1:B:77:VAL:HG12	1:B:79:LEU:HB3	5	0.75
(1,973)	1:B:77:VAL:HG13	1:B:79:LEU:HB2	5	0.75
(1,973)	1:B:77:VAL:HG13	1:B:79:LEU:HB3	5	0.75
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	1	0.75
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	1	0.75
(1,861)	1:A:150:LYS:HA	1:A:151:GLN:H	4	0.75
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	2	0.75
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	2	0.75
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	2	0.75
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	2	0.75
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	2	0.75
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	2	0.75
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	2	0.75
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	8	0.75
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	8	0.75
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	8	0.75
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	8	0.75
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	8	0.75
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	8	0.75
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	5	0.75
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	5	0.75
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	5	0.75
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	5	0.75
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	5	0.75
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	5	0.75
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	5	0.75
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	5	0.75
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	5	0.75
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	4	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	4	0.75
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	4	0.75
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	8	0.75
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	8	0.75
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	8	0.75
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	1	0.75
(1,582)	1:A:121:LYS:HA	1:A:97:VAL:HG11	6	0.75
(1,582)	1:A:121:LYS:HA	1:A:97:VAL:HG12	6	0.75
(1,582)	1:A:121:LYS:HA	1:A:97:VAL:HG13	6	0.75
(1,582)	1:A:121:LYS:HA	1:A:97:VAL:HG21	6	0.75
(1,582)	1:A:121:LYS:HA	1:A:97:VAL:HG22	6	0.75
(1,582)	1:A:121:LYS:HA	1:A:97:VAL:HG23	6	0.75
(1,544)	1:A:117:GLU:HA	1:A:103:LYS:HA	1	0.75
(1,543)	1:A:117:GLU:HA	1:A:103:LYS:HA	1	0.75
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	6	0.75
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	6	0.75
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	9	0.75
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	9	0.75
(1,358)	1:A:100:VAL:HG11	1:A:92:LYS:H	8	0.75
(1,358)	1:A:100:VAL:HG12	1:A:92:LYS:H	8	0.75
(1,358)	1:A:100:VAL:HG13	1:A:92:LYS:H	8	0.75
(1,296)	1:A:94:LEU:H	1:A:99:GLU:H	2	0.75
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG21	5	0.75
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG22	5	0.75
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG23	5	0.75
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	1	0.75
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	1	0.75
(1,190)	1:A:84:PHE:HE1	1:A:82:LYS:H	6	0.75
(1,190)	1:A:84:PHE:HE2	1:A:82:LYS:H	6	0.75
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	2	0.75
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	2	0.75
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	2	0.75
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	2	0.75
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	2	0.75
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	2	0.75
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	2	0.75
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	8	0.75
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	8	0.75
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	8	0.75
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	8	0.75
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	8	0.75
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	8	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	1	0.75
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG11	6	0.75
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG12	6	0.75
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG13	6	0.75
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG21	6	0.75
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG22	6	0.75
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG23	6	0.75
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	2	0.75
(1,1411)	1:B:117:GLU:HA	1:B:103:LYS:HA	1	0.75
(1,1410)	1:B:117:GLU:HA	1:B:103:LYS:HA	1	0.75
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	6	0.75
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	6	0.75
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	9	0.75
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	9	0.75
(1,1225)	1:B:100:VAL:HG11	1:B:92:LYS:H	8	0.75
(1,1225)	1:B:100:VAL:HG12	1:B:92:LYS:H	8	0.75
(1,1225)	1:B:100:VAL:HG13	1:B:92:LYS:H	8	0.75
(1,1163)	1:B:94:LEU:H	1:B:99:GLU:H	2	0.75
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	7	0.75
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	7	0.75
(1,106)	1:A:77:VAL:HG11	1:A:79:LEU:HB2	5	0.75
(1,106)	1:A:77:VAL:HG11	1:A:79:LEU:HB3	5	0.75
(1,106)	1:A:77:VAL:HG12	1:A:79:LEU:HB2	5	0.75
(1,106)	1:A:77:VAL:HG12	1:A:79:LEU:HB3	5	0.75
(1,106)	1:A:77:VAL:HG13	1:A:79:LEU:HB2	5	0.75
(1,106)	1:A:77:VAL:HG13	1:A:79:LEU:HB3	5	0.75
(1,1057)	1:B:84:PHE:HE1	1:B:82:LYS:H	6	0.75
(1,1057)	1:B:84:PHE:HE2	1:B:82:LYS:H	6	0.75
(1,975)	1:B:77:VAL:HG11	1:B:79:LEU:H	4	0.74
(1,975)	1:B:77:VAL:HG12	1:B:79:LEU:H	4	0.74
(1,975)	1:B:77:VAL:HG13	1:B:79:LEU:H	4	0.74
(1,969)	1:B:77:VAL:HG11	1:B:78:ASN:H	2	0.74
(1,969)	1:B:77:VAL:HG12	1:B:78:ASN:H	2	0.74
(1,969)	1:B:77:VAL:HG13	1:B:78:ASN:H	2	0.74
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	9	0.74
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	9	0.74
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	9	0.74
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	9	0.74
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	9	0.74
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	9	0.74
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	9	0.74
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	9	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	9	0.74
(1,917)	1:B:75:PHE:HD1	1:B:75:PHE:H	2	0.74
(1,917)	1:B:75:PHE:HD2	1:B:75:PHE:H	2	0.74
(1,908)	1:B:74:ARG:HG2	1:B:74:ARG:H	7	0.74
(1,908)	1:B:74:ARG:HG3	1:B:74:ARG:H	7	0.74
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	9	0.74
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	9	0.74
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	9	0.74
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE1	3	0.74
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE2	3	0.74
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE1	3	0.74
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE2	3	0.74
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE1	3	0.74
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE2	3	0.74
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	5	0.74
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	5	0.74
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD11	2	0.74
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD12	2	0.74
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD13	2	0.74
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	9	0.74
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	4	0.74
(1,699)	1:A:132:THR:HG1	1:A:132:THR:H	6	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	1	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	1	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	1	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	1	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	1	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	1	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	3	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	3	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	3	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	3	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	3	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	3	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	5	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	5	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	5	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	5	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	5	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	5	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	6	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	6	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	6	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	6	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	6	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	6	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	7	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	7	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	7	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	7	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	7	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	7	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD11	9	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD12	9	0.74
(1,627)	1:A:124:ILE:HG12	1:A:124:ILE:HD13	9	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD11	9	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD12	9	0.74
(1,627)	1:A:124:ILE:HG13	1:A:124:ILE:HD13	9	0.74
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	9	0.74
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	9	0.74
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	9	0.74
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	3	0.74
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	3	0.74
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	1	0.74
(1,50)	1:A:75:PHE:HD1	1:A:75:PHE:H	2	0.74
(1,50)	1:A:75:PHE:HD2	1:A:75:PHE:H	2	0.74
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	6	0.74
(1,41)	1:A:74:ARG:HG2	1:A:74:ARG:H	7	0.74
(1,41)	1:A:74:ARG:HG3	1:A:74:ARG:H	7	0.74
(1,236)	1:A:89:LEU:HD21	1:A:85:SER:HB3	2	0.74
(1,236)	1:A:89:LEU:HD22	1:A:85:SER:HB3	2	0.74
(1,236)	1:A:89:LEU:HD23	1:A:85:SER:HB3	2	0.74
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	9	0.74
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	9	0.74
(1,1768)	1:A:122:TYR:HA	1:B:112:GLY:H	1	0.74
(1,1743)	1:A:114:ILE:HG21	1:B:119:HIS:H	5	0.74
(1,1743)	1:A:114:ILE:HG22	1:B:119:HIS:H	5	0.74
(1,1743)	1:A:114:ILE:HG23	1:B:119:HIS:H	5	0.74
(1,1728)	1:B:150:LYS:HA	1:B:151:GLN:H	4	0.74
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	5	0.74
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	5	0.74
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	9	0.74
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	4	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	1	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	1	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	1	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	1	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	1	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	1	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	3	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	3	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	3	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	3	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	3	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	3	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	5	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	5	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	5	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	5	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	5	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	5	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	6	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	6	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	6	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	6	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	6	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	6	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	7	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	7	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	7	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	7	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	7	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	7	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD11	9	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD12	9	0.74
(1,1494)	1:B:124:ILE:HG12	1:B:124:ILE:HD13	9	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD11	9	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD12	9	0.74
(1,1494)	1:B:124:ILE:HG13	1:B:124:ILE:HD13	9	0.74
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	2	0.74
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	2	0.74
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	2	0.74
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	2	0.74
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	2	0.74
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	2	0.74
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	2	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	2	0.74
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	2	0.74
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	9	0.74
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	9	0.74
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	9	0.74
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	3	0.74
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	3	0.74
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	1	0.74
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	6	0.74
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE1	3	0.74
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE2	3	0.74
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE1	3	0.74
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE2	3	0.74
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE1	3	0.74
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE2	3	0.74
(1,1103)	1:B:89:LEU:HD21	1:B:85:SER:HB3	2	0.74
(1,1103)	1:B:89:LEU:HD22	1:B:85:SER:HB3	2	0.74
(1,1103)	1:B:89:LEU:HD23	1:B:85:SER:HB3	2	0.74
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	9	0.74
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	9	0.74
(1,108)	1:A:77:VAL:HG11	1:A:79:LEU:H	4	0.74
(1,108)	1:A:77:VAL:HG12	1:A:79:LEU:H	4	0.74
(1,108)	1:A:77:VAL:HG13	1:A:79:LEU:H	4	0.74
(1,102)	1:A:77:VAL:HG11	1:A:78:ASN:H	2	0.74
(1,102)	1:A:77:VAL:HG12	1:A:78:ASN:H	2	0.74
(1,102)	1:A:77:VAL:HG13	1:A:78:ASN:H	2	0.74
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD11	6	0.73
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD12	6	0.73
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD13	6	0.73
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD11	6	0.73
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD12	6	0.73
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD13	6	0.73
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD11	6	0.73
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD12	6	0.73
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD13	6	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	1	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	1	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	1	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	5	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	5	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	5	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	7	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	7	0.73
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	7	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	1	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	1	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	1	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	5	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	5	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	5	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	7	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	7	0.73
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	7	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	1	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	1	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	1	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	5	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	5	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	5	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	7	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	7	0.73
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	7	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	1	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	1	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	1	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	5	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	5	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	5	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	7	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	7	0.73
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	7	0.73
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	8	0.73
(1,723)	1:A:133:ILE:HG21	1:A:133:ILE:H	3	0.73
(1,723)	1:A:133:ILE:HG22	1:A:133:ILE:H	3	0.73
(1,723)	1:A:133:ILE:HG23	1:A:133:ILE:H	3	0.73
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	2	0.73
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	2	0.73
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	2	0.73
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	2	0.73
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	2	0.73
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	2	0.73
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	2	0.73
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	2	0.73
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	2	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	2	0.73
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	6	0.73
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	7	0.73
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	1	0.73
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	1	0.73
(1,449)	1:A:109:ASP:HA	1:A:111:HIS:H	4	0.73
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	9	0.73
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	9	0.73
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	9	0.73
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	9	0.73
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	9	0.73
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	9	0.73
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	7	0.73
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	8	0.73
(1,1590)	1:B:133:ILE:HG21	1:B:133:ILE:H	3	0.73
(1,1590)	1:B:133:ILE:HG22	1:B:133:ILE:H	3	0.73
(1,1590)	1:B:133:ILE:HG23	1:B:133:ILE:H	3	0.73
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	5	0.73
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	5	0.73
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	5	0.73
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	5	0.73
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	5	0.73
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	5	0.73
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	2	0.73
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	7	0.73
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	1	0.73
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	1	0.73
(1,1316)	1:B:109:ASP:HA	1:B:111:HIS:H	4	0.73
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	9	0.73
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	9	0.73
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	9	0.73
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	9	0.73
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	9	0.73
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	9	0.73
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	7	0.73
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD11	6	0.73
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD12	6	0.73
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD13	6	0.73
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD11	6	0.73
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD12	6	0.73
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD13	6	0.73
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD11	6	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD12	6	0.73
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD13	6	0.73
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD11	6	0.72
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD12	6	0.72
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD13	6	0.72
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD11	6	0.72
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD12	6	0.72
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD13	6	0.72
(1,86)	1:A:77:VAL:HG21	1:A:75:PHE:HZ	9	0.72
(1,86)	1:A:77:VAL:HG22	1:A:75:PHE:HZ	9	0.72
(1,86)	1:A:77:VAL:HG23	1:A:75:PHE:HZ	9	0.72
(1,831)	1:A:146:ASP:HB2	1:A:145:VAL:HA	2	0.72
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	1	0.72
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	8	0.72
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	8	0.72
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	8	0.72
(1,703)	1:A:132:THR:HA	1:A:133:ILE:HA	3	0.72
(1,642)	1:A:125:PRO:HD3	1:A:122:TYR:HD1	9	0.72
(1,642)	1:A:125:PRO:HD3	1:A:122:TYR:HD2	9	0.72
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	5	0.72
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	5	0.72
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	5	0.72
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	5	0.72
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	5	0.72
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	5	0.72
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	9	0.72
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	9	0.72
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	9	0.72
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	9	0.72
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	9	0.72
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	9	0.72
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	9	0.72
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	9	0.72
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	9	0.72
(1,498)	1:A:113:PHE:HB2	1:A:113:PHE:H	3	0.72
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG21	4	0.72
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG22	4	0.72
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG23	4	0.72
(1,409)	1:A:104:HIS:H	1:A:116:ARG:HB2	9	0.72
(1,409)	1:A:104:HIS:H	1:A:116:ARG:HB3	9	0.72
(1,397)	1:A:103:LYS:HG2	1:A:116:ARG:H	8	0.72
(1,397)	1:A:103:LYS:HG3	1:A:116:ARG:H	8	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	2	0.72
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	2	0.72
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	2	0.72
(1,1698)	1:B:146:ASP:HB2	1:B:145:VAL:HA	2	0.72
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	1	0.72
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	8	0.72
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	8	0.72
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	8	0.72
(1,1509)	1:B:125:PRO:HD3	1:B:122:TYR:HD1	9	0.72
(1,1509)	1:B:125:PRO:HD3	1:B:122:TYR:HD2	9	0.72
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	9	0.72
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	9	0.72
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	9	0.72
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	9	0.72
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	9	0.72
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	9	0.72
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	9	0.72
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	9	0.72
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	9	0.72
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	2	0.72
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	2	0.72
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	2	0.72
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	6	0.72
(1,1365)	1:B:113:PHE:HB2	1:B:113:PHE:H	3	0.72
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG21	4	0.72
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG22	4	0.72
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG23	4	0.72
(1,1276)	1:B:104:HIS:H	1:B:116:ARG:HB2	9	0.72
(1,1276)	1:B:104:HIS:H	1:B:116:ARG:HB3	9	0.72
(1,1264)	1:B:103:LYS:HG2	1:B:116:ARG:H	8	0.72
(1,1264)	1:B:103:LYS:HG3	1:B:116:ARG:H	8	0.72
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	2	0.72
(1,908)	1:B:74:ARG:HG2	1:B:74:ARG:H	2	0.71
(1,908)	1:B:74:ARG:HG3	1:B:74:ARG:H	2	0.71
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	7	0.71
(1,809)	1:A:144:THR:HG21	1:A:146:ASP:HB3	5	0.71
(1,809)	1:A:144:THR:HG22	1:A:146:ASP:HB3	5	0.71
(1,809)	1:A:144:THR:HG23	1:A:146:ASP:HB3	5	0.71
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD1	7	0.71
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD2	7	0.71
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	1	0.71
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	1	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	1	0.71
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	2	0.71
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	2	0.71
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	2	0.71
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	6	0.71
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	6	0.71
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	6	0.71
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	1	0.71
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	1	0.71
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	1	0.71
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	2	0.71
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	2	0.71
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	2	0.71
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	6	0.71
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	6	0.71
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	6	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	2	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	2	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	2	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	5	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	5	0.71
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	5	0.71
(1,579)	1:A:119:HIS:H	1:A:120:ARG:H	8	0.71
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	7	0.71
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD11	6	0.71
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD12	6	0.71
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD13	6	0.71
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD11	6	0.71
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD12	6	0.71
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD13	6	0.71
(1,432)	1:A:107:ARG:HG2	1:A:108:GLN:H	4	0.71
(1,432)	1:A:107:ARG:HG3	1:A:108:GLN:H	4	0.71
(1,41)	1:A:74:ARG:HG2	1:A:74:ARG:H	2	0.71
(1,41)	1:A:74:ARG:HG3	1:A:74:ARG:H	2	0.71
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	1	0.71
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	1	0.71
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	1	0.71
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	1	0.71
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	1	0.71
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	1	0.71
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	2	0.71
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	2	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	3	0.71
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	3	0.71
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	7	0.71
(1,1676)	1:B:144:THR:HG21	1:B:146:ASP:HB3	5	0.71
(1,1676)	1:B:144:THR:HG22	1:B:146:ASP:HB3	5	0.71
(1,1676)	1:B:144:THR:HG23	1:B:146:ASP:HB3	5	0.71
(1,1570)	1:B:132:THR:HA	1:B:133:ILE:HA	3	0.71
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD1	7	0.71
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD2	7	0.71
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	1	0.71
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	1	0.71
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	1	0.71
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	6	0.71
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	6	0.71
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	6	0.71
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	1	0.71
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	1	0.71
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	1	0.71
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	6	0.71
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	6	0.71
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	6	0.71
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	5	0.71
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	5	0.71
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	5	0.71
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	7	0.71
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	9	0.71
(1,1472)	1:B:123:ARG:HD2	1:B:98:ILE:H	6	0.71
(1,1472)	1:B:123:ARG:HD3	1:B:98:ILE:H	6	0.71
(1,1446)	1:B:119:HIS:H	1:B:120:ARG:H	8	0.71
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	7	0.71
(1,1299)	1:B:107:ARG:HG2	1:B:108:GLN:H	4	0.71
(1,1299)	1:B:107:ARG:HG3	1:B:108:GLN:H	4	0.71
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	1	0.71
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	1	0.71
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	1	0.71
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	1	0.71
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	1	0.71
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	1	0.71
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	5	0.71
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	5	0.71
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	2	0.71
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	2	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	7	0.71
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	9	0.71
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG11	2	0.7
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG12	2	0.7
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG13	2	0.7
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG11	2	0.7
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG12	2	0.7
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG13	2	0.7
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG11	2	0.7
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG12	2	0.7
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG13	2	0.7
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG11	2	0.7
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG12	2	0.7
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG13	2	0.7
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	8	0.7
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	2	0.7
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	2	0.7
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	2	0.7
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	9	0.7
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	9	0.7
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	9	0.7
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	9	0.7
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	9	0.7
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	9	0.7
(1,605)	1:A:123:ARG:HD2	1:A:98:ILE:H	6	0.7
(1,605)	1:A:123:ARG:HD3	1:A:98:ILE:H	6	0.7
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	6	0.7
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	6	0.7
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	6	0.7
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	6	0.7
(1,592)	1:A:122:TYR:HA	1:A:122:TYR:HD1	6	0.7
(1,592)	1:A:122:TYR:HA	1:A:122:TYR:HD2	6	0.7
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	1	0.7
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	4	0.7
(1,511)	1:A:114:ILE:HG21	1:A:112:GLY:H	3	0.7
(1,511)	1:A:114:ILE:HG22	1:A:112:GLY:H	3	0.7
(1,511)	1:A:114:ILE:HG23	1:A:112:GLY:H	3	0.7
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	6	0.7
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	6	0.7
(1,452)	1:A:109:ASP:H	1:A:114:ILE:HG13	8	0.7
(1,451)	1:A:109:ASP:H	1:A:112:GLY:H	2	0.7
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	5	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	5	0.7
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	1	0.7
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	1	0.7
(1,251)	1:A:89:LEU:HG	1:A:90:LYS:H	7	0.7
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	8	0.7
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	2	0.7
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	2	0.7
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	2	0.7
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD1	4	0.7
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD2	4	0.7
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD1	4	0.7
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD2	4	0.7
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD1	4	0.7
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD2	4	0.7
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD1	6	0.7
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD2	6	0.7
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD1	6	0.7
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD2	6	0.7
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD1	6	0.7
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD2	6	0.7
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	2	0.7
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	2	0.7
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	2	0.7
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	9	0.7
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	9	0.7
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	9	0.7
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	2	0.7
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	2	0.7
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	2	0.7
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	9	0.7
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	9	0.7
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	9	0.7
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	1	0.7
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	2	0.7
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	4	0.7
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	5	0.7
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	6	0.7
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	6	0.7
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	6	0.7
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	6	0.7
(1,1459)	1:B:122:TYR:HA	1:B:122:TYR:HD1	6	0.7
(1,1459)	1:B:122:TYR:HA	1:B:122:TYR:HD2	6	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	1	0.7
(1,143)	1:A:79:LEU:HG	1:A:80:ASP:H	2	0.7
(1,143)	1:A:79:LEU:HG	1:A:80:ASP:H	4	0.7
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	4	0.7
(1,1378)	1:B:114:ILE:HG21	1:B:112:GLY:H	3	0.7
(1,1378)	1:B:114:ILE:HG22	1:B:112:GLY:H	3	0.7
(1,1378)	1:B:114:ILE:HG23	1:B:112:GLY:H	3	0.7
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	6	0.7
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	6	0.7
(1,1319)	1:B:109:ASP:H	1:B:114:ILE:HG13	8	0.7
(1,1318)	1:B:109:ASP:H	1:B:112:GLY:H	2	0.7
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	1	0.7
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	1	0.7
(1,1118)	1:B:89:LEU:HG	1:B:90:LYS:H	7	0.7
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD1	4	0.7
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD2	4	0.7
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD1	4	0.7
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD2	4	0.7
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD1	4	0.7
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD2	4	0.7
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD1	6	0.7
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD2	6	0.7
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD1	6	0.7
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD2	6	0.7
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD1	6	0.7
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD2	6	0.7
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	1	0.7
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	2	0.7
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	4	0.7
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	5	0.7
(1,1010)	1:B:79:LEU:HG	1:B:80:ASP:H	2	0.7
(1,1010)	1:B:79:LEU:HG	1:B:80:ASP:H	4	0.7
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	3	0.69
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	3	0.69
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	3	0.69
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	3	0.69
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	3	0.69
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	3	0.69
(1,908)	1:B:74:ARG:HG2	1:B:74:ARG:H	1	0.69
(1,908)	1:B:74:ARG:HG3	1:B:74:ARG:H	1	0.69
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	7	0.69
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	7	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	7	0.69
(1,754)	1:A:137:LEU:H	1:A:137:LEU:HD11	2	0.69
(1,754)	1:A:137:LEU:H	1:A:137:LEU:HD12	2	0.69
(1,754)	1:A:137:LEU:H	1:A:137:LEU:HD13	2	0.69
(1,754)	1:A:137:LEU:H	1:A:137:LEU:HD21	2	0.69
(1,754)	1:A:137:LEU:H	1:A:137:LEU:HD22	2	0.69
(1,754)	1:A:137:LEU:H	1:A:137:LEU:HD23	2	0.69
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	5	0.69
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	6	0.69
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	6	0.69
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	6	0.69
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	1	0.69
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	1	0.69
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	8	0.69
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	8	0.69
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	8	0.69
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	8	0.69
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	8	0.69
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	8	0.69
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	7	0.69
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	7	0.69
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	4	0.69
(1,565)	1:A:118:PHE:HB2	1:A:119:HIS:H	9	0.69
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	1	0.69
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	1	0.69
(1,550)	1:A:118:PHE:HE1	1:A:102:GLY:H	2	0.69
(1,550)	1:A:118:PHE:HE2	1:A:102:GLY:H	2	0.69
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	1	0.69
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	5	0.69
(1,547)	1:A:117:GLU:H	1:A:117:GLU:HG2	3	0.69
(1,547)	1:A:117:GLU:H	1:A:117:GLU:HG3	3	0.69
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	1	0.69
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	4	0.69
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	5	0.69
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	1	0.69
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	4	0.69
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	5	0.69
(1,41)	1:A:74:ARG:HG2	1:A:74:ARG:H	1	0.69
(1,41)	1:A:74:ARG:HG3	1:A:74:ARG:H	1	0.69
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	5	0.69
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	5	0.69
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	9	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	9	0.69
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	6	0.69
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG2	2	0.69
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG3	2	0.69
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG2	2	0.69
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG3	2	0.69
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG21	9	0.69
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG22	9	0.69
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG23	9	0.69
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	7	0.69
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	7	0.69
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	7	0.69
(1,1621)	1:B:137:LEU:H	1:B:137:LEU:HD11	2	0.69
(1,1621)	1:B:137:LEU:H	1:B:137:LEU:HD12	2	0.69
(1,1621)	1:B:137:LEU:H	1:B:137:LEU:HD13	2	0.69
(1,1621)	1:B:137:LEU:H	1:B:137:LEU:HD21	2	0.69
(1,1621)	1:B:137:LEU:H	1:B:137:LEU:HD22	2	0.69
(1,1621)	1:B:137:LEU:H	1:B:137:LEU:HD23	2	0.69
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	5	0.69
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	5	0.69
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	5	0.69
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	6	0.69
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	6	0.69
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	6	0.69
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	1	0.69
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	1	0.69
(1,157)	1:A:81:VAL:HG21	1:A:81:VAL:H	8	0.69
(1,157)	1:A:81:VAL:HG22	1:A:81:VAL:H	8	0.69
(1,157)	1:A:81:VAL:HG23	1:A:81:VAL:H	8	0.69
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	8	0.69
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	8	0.69
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	8	0.69
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	8	0.69
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	8	0.69
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	8	0.69
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	4	0.69
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	4	0.69
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	4	0.69
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	4	0.69
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	4	0.69
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	4	0.69
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	4	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	4	0.69
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	4	0.69
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	6	0.69
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	6	0.69
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	6	0.69
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	6	0.69
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	6	0.69
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	6	0.69
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	6	0.69
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	6	0.69
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	6	0.69
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	6	0.69
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	4	0.69
(1,1432)	1:B:118:PHE:HB2	1:B:119:HIS:H	9	0.69
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	1	0.69
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	1	0.69
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	7	0.69
(1,1417)	1:B:118:PHE:HE1	1:B:102:GLY:H	2	0.69
(1,1417)	1:B:118:PHE:HE2	1:B:102:GLY:H	2	0.69
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	1	0.69
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	5	0.69
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	1	0.69
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	4	0.69
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	5	0.69
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	1	0.69
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	4	0.69
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	5	0.69
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	5	0.69
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	5	0.69
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	8	0.69
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	8	0.69
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	9	0.69
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	9	0.69
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	6	0.69
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG2	2	0.69
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG3	2	0.69
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG2	2	0.69
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG3	2	0.69
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG21	9	0.69
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG22	9	0.69
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG23	9	0.69
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	5	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	5	0.69
(1,1024)	1:B:81:VAL:HG21	1:B:81:VAL:H	8	0.69
(1,1024)	1:B:81:VAL:HG22	1:B:81:VAL:H	8	0.69
(1,1024)	1:B:81:VAL:HG23	1:B:81:VAL:H	8	0.69
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG11	8	0.68
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG12	8	0.68
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG13	8	0.68
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG11	8	0.68
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG12	8	0.68
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG13	8	0.68
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG11	8	0.68
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG12	8	0.68
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG13	8	0.68
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG11	8	0.68
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG12	8	0.68
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG13	8	0.68
(1,831)	1:A:146:ASP:HB2	1:A:145:VAL:HA	4	0.68
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	5	0.68
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	5	0.68
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	5	0.68
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	4	0.68
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	4	0.68
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	4	0.68
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	4	0.68
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	4	0.68
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	4	0.68
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	4	0.68
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	4	0.68
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	4	0.68
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	6	0.68
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	6	0.68
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	6	0.68
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	6	0.68
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	6	0.68
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	6	0.68
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	6	0.68
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	6	0.68
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	6	0.68
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	7	0.68
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	7	0.68
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	7	0.68
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	2	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	6	0.68
(1,512)	1:A:114:ILE:HD11	1:A:113:PHE:HA	4	0.68
(1,512)	1:A:114:ILE:HD12	1:A:113:PHE:HA	4	0.68
(1,512)	1:A:114:ILE:HD13	1:A:113:PHE:HA	4	0.68
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	3	0.68
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	8	0.68
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	3	0.68
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	8	0.68
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	9	0.68
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	4	0.68
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	4	0.68
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	7	0.68
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	7	0.68
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	8	0.68
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	8	0.68
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG2	1	0.68
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG3	1	0.68
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG2	1	0.68
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG3	1	0.68
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG2	6	0.68
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG3	6	0.68
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG2	6	0.68
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG3	6	0.68
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	6	0.68
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	6	0.68
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	6	0.68
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	6	0.68
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	6	0.68
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	6	0.68
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	9	0.68
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	2	0.68
(1,212)	1:A:85:SER:HB2	1:A:88:GLU:H	9	0.68
(1,1740)	1:A:113:PHE:HD1	1:B:121:LYS:H	1	0.68
(1,1740)	1:A:113:PHE:HD2	1:B:121:LYS:H	1	0.68
(1,1698)	1:B:146:ASP:HB2	1:B:145:VAL:HA	4	0.68
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	2	0.68
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	2	0.68
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	2	0.68
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	2	0.68
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	2	0.68
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	2	0.68
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD11	8	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD12	8	0.68
(1,1492)	1:B:124:ILE:HG21	1:B:124:ILE:HD13	8	0.68
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD11	8	0.68
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD12	8	0.68
(1,1492)	1:B:124:ILE:HG22	1:B:124:ILE:HD13	8	0.68
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD11	8	0.68
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD12	8	0.68
(1,1492)	1:B:124:ILE:HG23	1:B:124:ILE:HD13	8	0.68
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	3	0.68
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	3	0.68
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	3	0.68
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	7	0.68
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	7	0.68
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	7	0.68
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	3	0.68
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	7	0.68
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	7	0.68
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	2	0.68
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	6	0.68
(1,1414)	1:B:117:GLU:H	1:B:117:GLU:HG2	3	0.68
(1,1414)	1:B:117:GLU:H	1:B:117:GLU:HG3	3	0.68
(1,1379)	1:B:114:ILE:HD11	1:B:113:PHE:HA	4	0.68
(1,1379)	1:B:114:ILE:HD12	1:B:113:PHE:HA	4	0.68
(1,1379)	1:B:114:ILE:HD13	1:B:113:PHE:HA	4	0.68
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	3	0.68
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	8	0.68
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	3	0.68
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	8	0.68
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	9	0.68
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	4	0.68
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	4	0.68
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	7	0.68
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	7	0.68
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG2	1	0.68
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG3	1	0.68
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG2	1	0.68
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG3	1	0.68
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG2	6	0.68
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG3	6	0.68
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG2	6	0.68
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG3	6	0.68
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	6	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	6	0.68
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	6	0.68
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	6	0.68
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	6	0.68
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	6	0.68
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	9	0.68
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	2	0.68
(1,1079)	1:B:85:SER:HB2	1:B:88:GLU:H	9	0.68
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	6	0.68
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	3	0.68
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	6	0.68
(1,1010)	1:B:79:LEU:HG	1:B:80:ASP:H	3	0.68
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG11	5	0.67
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG12	5	0.67
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG13	5	0.67
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG11	5	0.67
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG12	5	0.67
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG13	5	0.67
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	2	0.67
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	2	0.67
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	2	0.67
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	2	0.67
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	2	0.67
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	2	0.67
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	2	0.67
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	5	0.67
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	5	0.67
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	5	0.67
(1,713)	1:A:133:ILE:HD11	1:A:130:PRO:HB2	2	0.67
(1,713)	1:A:133:ILE:HD11	1:A:130:PRO:HB3	2	0.67
(1,713)	1:A:133:ILE:HD12	1:A:130:PRO:HB2	2	0.67
(1,713)	1:A:133:ILE:HD12	1:A:130:PRO:HB3	2	0.67
(1,713)	1:A:133:ILE:HD13	1:A:130:PRO:HB2	2	0.67
(1,713)	1:A:133:ILE:HD13	1:A:130:PRO:HB3	2	0.67
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	3	0.67
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	3	0.67
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	3	0.67
(1,632)	1:A:124:ILE:HG21	1:A:124:ILE:HA	7	0.67
(1,632)	1:A:124:ILE:HG22	1:A:124:ILE:HA	7	0.67
(1,632)	1:A:124:ILE:HG23	1:A:124:ILE:HA	7	0.67
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	3	0.67
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	3	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	3	0.67
(1,631)	1:A:124:ILE:HG21	1:A:124:ILE:HA	7	0.67
(1,631)	1:A:124:ILE:HG22	1:A:124:ILE:HA	7	0.67
(1,631)	1:A:124:ILE:HG23	1:A:124:ILE:HA	7	0.67
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD11	8	0.67
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD12	8	0.67
(1,625)	1:A:124:ILE:HG21	1:A:124:ILE:HD13	8	0.67
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD11	8	0.67
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD12	8	0.67
(1,625)	1:A:124:ILE:HG22	1:A:124:ILE:HD13	8	0.67
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD11	8	0.67
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD12	8	0.67
(1,625)	1:A:124:ILE:HG23	1:A:124:ILE:HD13	8	0.67
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	3	0.67
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	3	0.67
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	3	0.67
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	6	0.67
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	6	0.67
(1,480)	1:A:112:GLY:HA3	1:A:113:PHE:H	3	0.67
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	2	0.67
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	9	0.67
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	2	0.67
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	9	0.67
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	2	0.67
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	6	0.67
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	6	0.67
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	6	0.67
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	6	0.67
(1,191)	1:A:84:PHE:HD1	1:A:82:LYS:H	5	0.67
(1,191)	1:A:84:PHE:HD2	1:A:82:LYS:H	5	0.67
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB2	8	0.67
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB3	8	0.67
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	6	0.67
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	5	0.67
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	5	0.67
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	5	0.67
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	2	0.67
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	5	0.67
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	5	0.67
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	5	0.67
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB2	8	0.67
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB3	8	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB2	8	0.67
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB3	8	0.67
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB2	8	0.67
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB3	8	0.67
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	3	0.67
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	3	0.67
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	3	0.67
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	3	0.67
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	3	0.67
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	3	0.67
(1,143)	1:A:79:LEU:HG	1:A:80:ASP:H	3	0.67
(1,1425)	1:B:118:PHE:HA	1:B:118:PHE:HZ	8	0.67
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	6	0.67
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	6	0.67
(1,1347)	1:B:112:GLY:HA3	1:B:113:PHE:H	3	0.67
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	2	0.67
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	9	0.67
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	2	0.67
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	9	0.67
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	2	0.67
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	6	0.67
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	6	0.67
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	6	0.67
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	6	0.67
(1,1058)	1:B:84:PHE:HD1	1:B:82:LYS:H	5	0.67
(1,1058)	1:B:84:PHE:HD2	1:B:82:LYS:H	5	0.67
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB2	8	0.67
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB3	8	0.67
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB2	8	0.67
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB3	8	0.67
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB2	8	0.67
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB3	8	0.67
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG11	4	0.66
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG12	4	0.66
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG13	4	0.66
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG11	5	0.66
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG12	5	0.66
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG13	5	0.66
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG11	4	0.66
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG12	4	0.66
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG13	4	0.66
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG11	5	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG12	5	0.66
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG13	5	0.66
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG11	4	0.66
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG12	4	0.66
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG13	4	0.66
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG11	4	0.66
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG12	4	0.66
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG13	4	0.66
(1,884)	1:B:70:LEU:H	1:B:70:LEU:HB3	6	0.66
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	6	0.66
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	6	0.66
(1,831)	1:A:146:ASP:HB2	1:A:145:VAL:HA	5	0.66
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	5	0.66
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	8	0.66
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	8	0.66
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	8	0.66
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	8	0.66
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	8	0.66
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	8	0.66
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	1	0.66
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	1	0.66
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	1	0.66
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	7	0.66
(1,558)	1:A:118:PHE:HA	1:A:118:PHE:HZ	8	0.66
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	9	0.66
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	2	0.66
(1,511)	1:A:114:ILE:HG21	1:A:112:GLY:H	2	0.66
(1,511)	1:A:114:ILE:HG22	1:A:112:GLY:H	2	0.66
(1,511)	1:A:114:ILE:HG23	1:A:112:GLY:H	2	0.66
(1,476)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	7	0.66
(1,475)	1:A:112:GLY:HA2	1:A:112:GLY:HA3	7	0.66
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	9	0.66
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	9	0.66
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	7	0.66
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	7	0.66
(1,180)	1:A:83:HIS:HB2	1:A:83:HIS:H	3	0.66
(1,180)	1:A:83:HIS:HB2	1:A:83:HIS:H	7	0.66
(1,1745)	1:A:114:ILE:H	1:B:121:LYS:H	3	0.66
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE1	8	0.66
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE2	8	0.66
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE1	8	0.66
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE2	8	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE1	8	0.66
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE2	8	0.66
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	6	0.66
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	6	0.66
(1,17)	1:A:70:LEU:H	1:A:70:LEU:HB3	6	0.66
(1,1698)	1:B:146:ASP:HB2	1:B:145:VAL:HA	5	0.66
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	8	0.66
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	8	0.66
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	8	0.66
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	8	0.66
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	8	0.66
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	8	0.66
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	1	0.66
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	1	0.66
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	1	0.66
(1,1499)	1:B:124:ILE:HG21	1:B:124:ILE:HA	7	0.66
(1,1499)	1:B:124:ILE:HG22	1:B:124:ILE:HA	7	0.66
(1,1499)	1:B:124:ILE:HG23	1:B:124:ILE:HA	7	0.66
(1,1498)	1:B:124:ILE:HG21	1:B:124:ILE:HA	7	0.66
(1,1498)	1:B:124:ILE:HG22	1:B:124:ILE:HA	7	0.66
(1,1498)	1:B:124:ILE:HG23	1:B:124:ILE:HA	7	0.66
(1,149)	1:A:80:ASP:HA	1:A:81:VAL:H	8	0.66
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	9	0.66
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	2	0.66
(1,1378)	1:B:114:ILE:HG21	1:B:112:GLY:H	2	0.66
(1,1378)	1:B:114:ILE:HG22	1:B:112:GLY:H	2	0.66
(1,1378)	1:B:114:ILE:HG23	1:B:112:GLY:H	2	0.66
(1,1343)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	7	0.66
(1,1342)	1:B:112:GLY:HA2	1:B:112:GLY:HA3	7	0.66
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	9	0.66
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	9	0.66
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	7	0.66
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	7	0.66
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB2	8	0.66
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB3	8	0.66
(1,1047)	1:B:83:HIS:HB2	1:B:83:HIS:H	3	0.66
(1,1047)	1:B:83:HIS:HB2	1:B:83:HIS:H	7	0.66
(1,1016)	1:B:80:ASP:HA	1:B:81:VAL:H	8	0.66
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE1	5	0.65
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE2	5	0.65
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE1	5	0.65
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE2	5	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE1	5	0.65
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE2	5	0.65
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	9	0.65
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	9	0.65
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	9	0.65
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	4	0.65
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	4	0.65
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	4	0.65
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	8	0.65
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	8	0.65
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	8	0.65
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	4	0.65
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	4	0.65
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	4	0.65
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	8	0.65
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	8	0.65
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	8	0.65
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	4	0.65
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	4	0.65
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	4	0.65
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	8	0.65
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	8	0.65
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	8	0.65
(1,923)	1:B:75:PHE:HD1	1:B:148:PRO:HA	5	0.65
(1,923)	1:B:75:PHE:HD2	1:B:148:PRO:HA	5	0.65
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	4	0.65
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	4	0.65
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	4	0.65
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	8	0.65
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	8	0.65
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	8	0.65
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	6	0.65
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	6	0.65
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	1	0.65
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	1	0.65
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	3	0.65
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	3	0.65
(1,762)	1:A:138:SER:HB2	1:A:142:VAL:H	4	0.65
(1,762)	1:A:138:SER:HB3	1:A:142:VAL:H	4	0.65
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	4	0.65
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	4	0.65
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	4	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	4	0.65
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	4	0.65
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	4	0.65
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	9	0.65
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	9	0.65
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	9	0.65
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	9	0.65
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	9	0.65
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	9	0.65
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	3	0.65
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	7	0.65
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	9	0.65
(1,56)	1:A:75:PHE:HD1	1:A:148:PRO:HA	5	0.65
(1,56)	1:A:75:PHE:HD2	1:A:148:PRO:HA	5	0.65
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	4	0.65
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	8	0.65
(1,511)	1:A:114:ILE:HG21	1:A:112:GLY:H	1	0.65
(1,511)	1:A:114:ILE:HG22	1:A:112:GLY:H	1	0.65
(1,511)	1:A:114:ILE:HG23	1:A:112:GLY:H	1	0.65
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	2	0.65
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	2	0.65
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	3	0.65
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	3	0.65
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	3	0.65
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	5	0.65
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	7	0.65
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	7	0.65
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	7	0.65
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	7	0.65
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	7	0.65
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	7	0.65
(1,346)	1:A:98:ILE:H	1:A:122:TYR:H	8	0.65
(1,345)	1:A:98:ILE:H	1:A:122:TYR:H	8	0.65
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE1	3	0.65
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE2	3	0.65
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE1	3	0.65
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE2	3	0.65
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE1	3	0.65
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE2	3	0.65
(1,1738)	1:A:111:HIS:HA	1:B:122:TYR:HD1	6	0.65
(1,1738)	1:A:111:HIS:HA	1:B:122:TYR:HD2	6	0.65
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	6	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	6	0.65
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	1	0.65
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	1	0.65
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	3	0.65
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	3	0.65
(1,1629)	1:B:138:SER:HB2	1:B:142:VAL:H	4	0.65
(1,1629)	1:B:138:SER:HB3	1:B:142:VAL:H	4	0.65
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	5	0.65
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	4	0.65
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	4	0.65
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	4	0.65
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	4	0.65
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	4	0.65
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	4	0.65
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	9	0.65
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	9	0.65
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	9	0.65
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	9	0.65
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	9	0.65
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	9	0.65
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	3	0.65
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	7	0.65
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	9	0.65
(1,143)	1:A:79:LEU:HG	1:A:80:ASP:H	7	0.65
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	4	0.65
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	8	0.65
(1,1378)	1:B:114:ILE:HG21	1:B:112:GLY:H	1	0.65
(1,1378)	1:B:114:ILE:HG22	1:B:112:GLY:H	1	0.65
(1,1378)	1:B:114:ILE:HG23	1:B:112:GLY:H	1	0.65
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	2	0.65
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	2	0.65
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	3	0.65
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	3	0.65
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	3	0.65
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	5	0.65
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	7	0.65
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	7	0.65
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	7	0.65
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	7	0.65
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	7	0.65
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	7	0.65
(1,1213)	1:B:98:ILE:H	1:B:122:TYR:H	8	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1212)	1:B:98:ILE:H	1:B:122:TYR:H	8	0.65
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE1	5	0.65
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE2	5	0.65
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE1	5	0.65
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE2	5	0.65
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE1	5	0.65
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE2	5	0.65
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	9	0.65
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	9	0.65
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	9	0.65
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG11	1	0.64
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG12	1	0.64
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG13	1	0.64
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG11	3	0.64
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG12	3	0.64
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG13	3	0.64
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG11	1	0.64
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG12	1	0.64
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG13	1	0.64
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG11	3	0.64
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG12	3	0.64
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG13	3	0.64
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	3	0.64
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	3	0.64
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	3	0.64
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG11	1	0.64
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG12	1	0.64
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG13	1	0.64
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG11	3	0.64
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG12	3	0.64
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG13	3	0.64
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG11	1	0.64
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG12	1	0.64
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG13	1	0.64
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG11	3	0.64
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG12	3	0.64
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG13	3	0.64
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	3	0.64
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	3	0.64
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	3	0.64
(1,881)	1:B:68:MET:HE1	1:B:122:TYR:HD1	9	0.64
(1,881)	1:B:68:MET:HE1	1:B:122:TYR:HD2	9	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,881)	1:B:68:MET:HE2	1:B:122:TYR:HD1	9	0.64
(1,881)	1:B:68:MET:HE2	1:B:122:TYR:HD2	9	0.64
(1,881)	1:B:68:MET:HE3	1:B:122:TYR:HD1	9	0.64
(1,881)	1:B:68:MET:HE3	1:B:122:TYR:HD2	9	0.64
(1,811)	1:A:145:VAL:HB	1:A:77:VAL:HB	5	0.64
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	1	0.64
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	1	0.64
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	1	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	1	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	1	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	1	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	1	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	1	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	1	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	6	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	6	0.64
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	6	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	6	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	6	0.64
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	6	0.64
(1,700)	1:A:132:THR:HG21	1:A:132:THR:H	8	0.64
(1,700)	1:A:132:THR:HG22	1:A:132:THR:H	8	0.64
(1,700)	1:A:132:THR:HG23	1:A:132:THR:H	8	0.64
(1,699)	1:A:132:THR:HG1	1:A:132:THR:H	5	0.64
(1,496)	1:A:113:PHE:HB3	1:A:113:PHE:H	5	0.64
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	6	0.64
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	6	0.64
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	1	0.64
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	2	0.64
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	2	0.64
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	2	0.64
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	2	0.64
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	2	0.64
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	2	0.64
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	3	0.64
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	3	0.64
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	3	0.64
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	3	0.64
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	3	0.64
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	3	0.64
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	1	0.64
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	1	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	8	0.64
(1,194)	1:A:84:PHE:HD1	1:A:83:HIS:H	5	0.64
(1,194)	1:A:84:PHE:HD2	1:A:83:HIS:H	5	0.64
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB2	4	0.64
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB3	4	0.64
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG12	1	0.64
(1,1757)	1:A:119:HIS:H	1:B:114:ILE:HG13	1	0.64
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	1	0.64
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	1	0.64
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	1	0.64
(1,1678)	1:B:145:VAL:HB	1:B:77:VAL:HB	5	0.64
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	1	0.64
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	1	0.64
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	1	0.64
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	1	0.64
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	1	0.64
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	1	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	1	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	1	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	1	0.64
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	6	0.64
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	6	0.64
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	6	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	6	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	6	0.64
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	6	0.64
(1,157)	1:A:81:VAL:HG21	1:A:81:VAL:H	2	0.64
(1,157)	1:A:81:VAL:HG22	1:A:81:VAL:H	2	0.64
(1,157)	1:A:81:VAL:HG23	1:A:81:VAL:H	2	0.64
(1,1567)	1:B:132:THR:HG21	1:B:132:THR:H	8	0.64
(1,1567)	1:B:132:THR:HG22	1:B:132:THR:H	8	0.64
(1,1567)	1:B:132:THR:HG23	1:B:132:THR:H	8	0.64
(1,1527)	1:B:126:ALA:HA	1:B:128:VAL:H	8	0.64
(1,151)	1:A:81:VAL:HG11	1:A:79:LEU:HG	5	0.64
(1,151)	1:A:81:VAL:HG12	1:A:79:LEU:HG	5	0.64
(1,151)	1:A:81:VAL:HG13	1:A:79:LEU:HG	5	0.64
(1,14)	1:A:68:MET:HE1	1:A:122:TYR:HD1	9	0.64
(1,14)	1:A:68:MET:HE1	1:A:122:TYR:HD2	9	0.64
(1,14)	1:A:68:MET:HE2	1:A:122:TYR:HD1	9	0.64
(1,14)	1:A:68:MET:HE2	1:A:122:TYR:HD2	9	0.64
(1,14)	1:A:68:MET:HE3	1:A:122:TYR:HD1	9	0.64
(1,14)	1:A:68:MET:HE3	1:A:122:TYR:HD2	9	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1363)	1:B:113:PHE:HB3	1:B:113:PHE:H	5	0.64
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	6	0.64
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	6	0.64
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	1	0.64
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	2	0.64
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	2	0.64
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	2	0.64
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	2	0.64
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	2	0.64
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	2	0.64
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	3	0.64
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	3	0.64
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	3	0.64
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	3	0.64
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	3	0.64
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	3	0.64
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	1	0.64
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	1	0.64
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	8	0.64
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	6	0.64
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	6	0.64
(1,1061)	1:B:84:PHE:HD1	1:B:83:HIS:H	5	0.64
(1,1061)	1:B:84:PHE:HD2	1:B:83:HIS:H	5	0.64
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB2	4	0.64
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB3	4	0.64
(1,1024)	1:B:81:VAL:HG21	1:B:81:VAL:H	2	0.64
(1,1024)	1:B:81:VAL:HG22	1:B:81:VAL:H	2	0.64
(1,1024)	1:B:81:VAL:HG23	1:B:81:VAL:H	2	0.64
(1,1018)	1:B:81:VAL:HG11	1:B:79:LEU:HG	5	0.64
(1,1018)	1:B:81:VAL:HG12	1:B:79:LEU:HG	5	0.64
(1,1018)	1:B:81:VAL:HG13	1:B:79:LEU:HG	5	0.64
(1,1010)	1:B:79:LEU:HG	1:B:80:ASP:H	7	0.64
(1,929)	1:B:76:SER:HB3	1:B:76:SER:H	7	0.63
(1,870)	1:B:66:SER:HB2	1:B:66:SER:H	5	0.63
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	6	0.63
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	1	0.63
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	1	0.63
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	1	0.63
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	5	0.63
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	5	0.63
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	5	0.63
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	5	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	5	0.63
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	5	0.63
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	7	0.63
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	7	0.63
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	7	0.63
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	7	0.63
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	7	0.63
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	7	0.63
(1,660)	1:A:126:ALA:HA	1:A:128:VAL:H	8	0.63
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG21	2	0.63
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG22	2	0.63
(1,649)	1:A:125:PRO:HD2	1:A:124:ILE:HG23	2	0.63
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD11	1	0.63
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD12	1	0.63
(1,624)	1:A:124:ILE:HB	1:A:124:ILE:HD13	1	0.63
(1,62)	1:A:76:SER:HB3	1:A:76:SER:H	7	0.63
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG11	8	0.63
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG12	8	0.63
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG13	8	0.63
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG21	8	0.63
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG22	8	0.63
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG23	8	0.63
(1,568)	1:A:119:HIS:HB3	1:A:101:HIS:HA	2	0.63
(1,551)	1:A:118:PHE:HD1	1:A:103:LYS:HA	2	0.63
(1,551)	1:A:118:PHE:HD2	1:A:103:LYS:HA	2	0.63
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	8	0.63
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	9	0.63
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	3	0.63
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	4	0.63
(1,498)	1:A:113:PHE:HB2	1:A:113:PHE:H	4	0.63
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	5	0.63
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	8	0.63
(1,381)	1:A:101:HIS:HA	1:A:102:GLY:H	8	0.63
(1,346)	1:A:98:ILE:H	1:A:122:TYR:H	9	0.63
(1,345)	1:A:98:ILE:H	1:A:122:TYR:H	9	0.63
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	8	0.63
(1,3)	1:A:66:SER:HB2	1:A:66:SER:H	5	0.63
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	6	0.63
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	6	0.63
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	1	0.63
(1,1762)	1:A:122:TYR:HB2	1:B:111:HIS:H	3	0.63
(1,1762)	1:A:122:TYR:HB3	1:B:111:HIS:H	3	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	6	0.63
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	5	0.63
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	5	0.63
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	5	0.63
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	5	0.63
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	5	0.63
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	5	0.63
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	7	0.63
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	7	0.63
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	7	0.63
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	7	0.63
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	7	0.63
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	7	0.63
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	5	0.63
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	5	0.63
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	5	0.63
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG21	2	0.63
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG22	2	0.63
(1,1516)	1:B:125:PRO:HD2	1:B:124:ILE:HG23	2	0.63
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD11	1	0.63
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD12	1	0.63
(1,1491)	1:B:124:ILE:HB	1:B:124:ILE:HD13	1	0.63
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG11	8	0.63
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG12	8	0.63
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG13	8	0.63
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG21	8	0.63
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG22	8	0.63
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG23	8	0.63
(1,1418)	1:B:118:PHE:HD1	1:B:103:LYS:HA	2	0.63
(1,1418)	1:B:118:PHE:HD2	1:B:103:LYS:HA	2	0.63
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	8	0.63
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	9	0.63
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	4	0.63
(1,1365)	1:B:113:PHE:HB2	1:B:113:PHE:H	4	0.63
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	5	0.63
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	8	0.63
(1,1248)	1:B:101:HIS:HA	1:B:102:GLY:H	8	0.63
(1,1213)	1:B:98:ILE:H	1:B:122:TYR:H	9	0.63
(1,1212)	1:B:98:ILE:H	1:B:122:TYR:H	9	0.63
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	8	0.63
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	1	0.63
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	5	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	5	0.63
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	5	0.63
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG11	1	0.62
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG12	1	0.62
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG13	1	0.62
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG11	1	0.62
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG12	1	0.62
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG13	1	0.62
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG11	1	0.62
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG12	1	0.62
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG13	1	0.62
(1,969)	1:B:77:VAL:HG11	1:B:78:ASN:H	1	0.62
(1,969)	1:B:77:VAL:HG12	1:B:78:ASN:H	1	0.62
(1,969)	1:B:77:VAL:HG13	1:B:78:ASN:H	1	0.62
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG21	2	0.62
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG22	2	0.62
(1,962)	1:B:77:VAL:HA	1:B:77:VAL:HG23	2	0.62
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG11	7	0.62
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG12	7	0.62
(1,960)	1:B:77:VAL:HA	1:B:77:VAL:HG13	7	0.62
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG11	7	0.62
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG12	7	0.62
(1,959)	1:B:77:VAL:HA	1:B:77:VAL:HG13	7	0.62
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG21	2	0.62
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG22	2	0.62
(1,956)	1:B:77:VAL:HA	1:B:77:VAL:HG23	2	0.62
(1,953)	1:B:77:VAL:HG21	1:B:75:PHE:HZ	7	0.62
(1,953)	1:B:77:VAL:HG22	1:B:75:PHE:HZ	7	0.62
(1,953)	1:B:77:VAL:HG23	1:B:75:PHE:HZ	7	0.62
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG21	2	0.62
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG22	2	0.62
(1,95)	1:A:77:VAL:HA	1:A:77:VAL:HG23	2	0.62
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG11	7	0.62
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG12	7	0.62
(1,93)	1:A:77:VAL:HA	1:A:77:VAL:HG13	7	0.62
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG11	7	0.62
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG12	7	0.62
(1,92)	1:A:77:VAL:HA	1:A:77:VAL:HG13	7	0.62
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	3	0.62
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	3	0.62
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	3	0.62
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	3	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	3	0.62
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	3	0.62
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD11	7	0.62
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD12	7	0.62
(1,919)	1:B:75:PHE:HE1	1:B:98:ILE:HD13	7	0.62
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD11	7	0.62
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD12	7	0.62
(1,919)	1:B:75:PHE:HE2	1:B:98:ILE:HD13	7	0.62
(1,902)	1:B:73:ASP:H	1:B:74:ARG:HB3	3	0.62
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG2	1	0.62
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG3	1	0.62
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG21	2	0.62
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG22	2	0.62
(1,89)	1:A:77:VAL:HA	1:A:77:VAL:HG23	2	0.62
(1,886)	1:B:70:LEU:HD11	1:B:70:LEU:H	6	0.62
(1,886)	1:B:70:LEU:HD12	1:B:70:LEU:H	6	0.62
(1,886)	1:B:70:LEU:HD13	1:B:70:LEU:H	6	0.62
(1,886)	1:B:70:LEU:HD21	1:B:70:LEU:H	6	0.62
(1,886)	1:B:70:LEU:HD22	1:B:70:LEU:H	6	0.62
(1,886)	1:B:70:LEU:HD23	1:B:70:LEU:H	6	0.62
(1,885)	1:B:70:LEU:HD11	1:B:70:LEU:H	6	0.62
(1,885)	1:B:70:LEU:HD12	1:B:70:LEU:H	6	0.62
(1,885)	1:B:70:LEU:HD13	1:B:70:LEU:H	6	0.62
(1,885)	1:B:70:LEU:HD21	1:B:70:LEU:H	6	0.62
(1,885)	1:B:70:LEU:HD22	1:B:70:LEU:H	6	0.62
(1,885)	1:B:70:LEU:HD23	1:B:70:LEU:H	6	0.62
(1,86)	1:A:77:VAL:HG21	1:A:75:PHE:HZ	7	0.62
(1,86)	1:A:77:VAL:HG22	1:A:75:PHE:HZ	7	0.62
(1,86)	1:A:77:VAL:HG23	1:A:75:PHE:HZ	7	0.62
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	1	0.62
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	7	0.62
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	7	0.62
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	7	0.62
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	3	0.62
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	3	0.62
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	9	0.62
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	9	0.62
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	6	0.62
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	6	0.62
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	7	0.62
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	8	0.62
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	3	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	3	0.62
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	3	0.62
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	3	0.62
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	3	0.62
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	3	0.62
(1,35)	1:A:73:ASP:H	1:A:74:ARG:HB3	3	0.62
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	5	0.62
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	5	0.62
(1,263)	1:A:90:LYS:H	1:A:90:LYS:HD2	9	0.62
(1,263)	1:A:90:LYS:H	1:A:90:LYS:HD3	9	0.62
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG2	1	0.62
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG3	1	0.62
(1,19)	1:A:70:LEU:HD11	1:A:70:LEU:H	6	0.62
(1,19)	1:A:70:LEU:HD12	1:A:70:LEU:H	6	0.62
(1,19)	1:A:70:LEU:HD13	1:A:70:LEU:H	6	0.62
(1,19)	1:A:70:LEU:HD21	1:A:70:LEU:H	6	0.62
(1,19)	1:A:70:LEU:HD22	1:A:70:LEU:H	6	0.62
(1,19)	1:A:70:LEU:HD23	1:A:70:LEU:H	6	0.62
(1,18)	1:A:70:LEU:HD11	1:A:70:LEU:H	6	0.62
(1,18)	1:A:70:LEU:HD12	1:A:70:LEU:H	6	0.62
(1,18)	1:A:70:LEU:HD13	1:A:70:LEU:H	6	0.62
(1,18)	1:A:70:LEU:HD21	1:A:70:LEU:H	6	0.62
(1,18)	1:A:70:LEU:HD22	1:A:70:LEU:H	6	0.62
(1,18)	1:A:70:LEU:HD23	1:A:70:LEU:H	6	0.62
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	1	0.62
(1,170)	1:A:83:HIS:H	1:A:81:VAL:HB	4	0.62
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	3	0.62
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	3	0.62
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	7	0.62
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	7	0.62
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	7	0.62
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	3	0.62
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	3	0.62
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	9	0.62
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	9	0.62
(1,1435)	1:B:119:HIS:HB3	1:B:101:HIS:HA	2	0.62
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	6	0.62
(1,143)	1:A:79:LEU:HG	1:A:80:ASP:H	1	0.62
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	6	0.62
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	7	0.62
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	1	0.62
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	1	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	3	0.62
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	5	0.62
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	5	0.62
(1,1130)	1:B:90:LYS:H	1:B:90:LYS:HD2	9	0.62
(1,1130)	1:B:90:LYS:H	1:B:90:LYS:HD3	9	0.62
(1,1037)	1:B:83:HIS:H	1:B:81:VAL:HB	4	0.62
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	3	0.62
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	3	0.62
(1,102)	1:A:77:VAL:HG11	1:A:78:ASN:H	1	0.62
(1,102)	1:A:77:VAL:HG12	1:A:78:ASN:H	1	0.62
(1,102)	1:A:77:VAL:HG13	1:A:78:ASN:H	1	0.62
(1,1010)	1:B:79:LEU:HG	1:B:80:ASP:H	1	0.62
(1,930)	1:B:76:SER:HB2	1:B:77:VAL:H	6	0.61
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	9	0.61
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	9	0.61
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	9	0.61
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	8	0.61
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	9	0.61
(1,831)	1:A:146:ASP:HB2	1:A:145:VAL:HA	7	0.61
(1,811)	1:A:145:VAL:HB	1:A:77:VAL:HB	1	0.61
(1,811)	1:A:145:VAL:HB	1:A:77:VAL:HB	2	0.61
(1,810)	1:A:144:THR:HG21	1:A:146:ASP:HB2	6	0.61
(1,810)	1:A:144:THR:HG22	1:A:146:ASP:HB2	6	0.61
(1,810)	1:A:144:THR:HG23	1:A:146:ASP:HB2	6	0.61
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	1	0.61
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	1	0.61
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	1	0.61
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	2	0.61
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	2	0.61
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	2	0.61
(1,697)	1:A:132:THR:HG21	1:A:129:ASP:H	8	0.61
(1,697)	1:A:132:THR:HG22	1:A:129:ASP:H	8	0.61
(1,697)	1:A:132:THR:HG23	1:A:129:ASP:H	8	0.61
(1,63)	1:A:76:SER:HB2	1:A:77:VAL:H	6	0.61
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	7	0.61
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	1	0.61
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	1	0.61
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	7	0.61
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	7	0.61
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD11	7	0.61
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD12	7	0.61
(1,52)	1:A:75:PHE:HE1	1:A:98:ILE:HD13	7	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD11	7	0.61
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD12	7	0.61
(1,52)	1:A:75:PHE:HE2	1:A:98:ILE:HD13	7	0.61
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	5	0.61
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	5	0.61
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	6	0.61
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	2	0.61
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	9	0.61
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	9	0.61
(1,259)	1:A:89:LEU:HD11	1:A:103:LYS:H	3	0.61
(1,259)	1:A:89:LEU:HD12	1:A:103:LYS:H	3	0.61
(1,259)	1:A:89:LEU:HD13	1:A:103:LYS:H	3	0.61
(1,243)	1:A:89:LEU:HD11	1:A:88:GLU:H	8	0.61
(1,243)	1:A:89:LEU:HD12	1:A:88:GLU:H	8	0.61
(1,243)	1:A:89:LEU:HD13	1:A:88:GLU:H	8	0.61
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	9	0.61
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	9	0.61
(1,212)	1:A:85:SER:HB2	1:A:88:GLU:H	5	0.61
(1,198)	1:A:84:PHE:HB2	1:A:84:PHE:H	8	0.61
(1,198)	1:A:84:PHE:HB3	1:A:84:PHE:H	8	0.61
(1,196)	1:A:84:PHE:HB2	1:A:84:PHE:H	8	0.61
(1,196)	1:A:84:PHE:HB3	1:A:84:PHE:H	8	0.61
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	1	0.61
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	1	0.61
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD1	4	0.61
(1,1746)	1:A:114:ILE:HD11	1:B:122:TYR:HD2	4	0.61
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD1	4	0.61
(1,1746)	1:A:114:ILE:HD12	1:B:122:TYR:HD2	4	0.61
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD1	4	0.61
(1,1746)	1:A:114:ILE:HD13	1:B:122:TYR:HD2	4	0.61
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	8	0.61
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	9	0.61
(1,1698)	1:B:146:ASP:HB2	1:B:145:VAL:HA	7	0.61
(1,1690)	1:B:145:VAL:HG21	1:B:146:ASP:H	3	0.61
(1,1690)	1:B:145:VAL:HG22	1:B:146:ASP:H	3	0.61
(1,1690)	1:B:145:VAL:HG23	1:B:146:ASP:H	3	0.61
(1,1678)	1:B:145:VAL:HB	1:B:77:VAL:HB	1	0.61
(1,1678)	1:B:145:VAL:HB	1:B:77:VAL:HB	2	0.61
(1,1677)	1:B:144:THR:HG21	1:B:146:ASP:HB2	6	0.61
(1,1677)	1:B:144:THR:HG22	1:B:146:ASP:HB2	6	0.61
(1,1677)	1:B:144:THR:HG23	1:B:146:ASP:HB2	6	0.61
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	1	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	1	0.61
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	1	0.61
(1,1564)	1:B:132:THR:HG21	1:B:129:ASP:H	8	0.61
(1,1564)	1:B:132:THR:HG22	1:B:129:ASP:H	8	0.61
(1,1564)	1:B:132:THR:HG23	1:B:129:ASP:H	8	0.61
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	6	0.61
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	6	0.61
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	6	0.61
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	7	0.61
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	7	0.61
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	7	0.61
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	8	0.61
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	5	0.61
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	5	0.61
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	6	0.61
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	2	0.61
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	9	0.61
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	9	0.61
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG11	1	0.61
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG12	1	0.61
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG13	1	0.61
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG11	1	0.61
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG12	1	0.61
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG13	1	0.61
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG11	1	0.61
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG12	1	0.61
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG13	1	0.61
(1,1126)	1:B:89:LEU:HD11	1:B:103:LYS:H	3	0.61
(1,1126)	1:B:89:LEU:HD12	1:B:103:LYS:H	3	0.61
(1,1126)	1:B:89:LEU:HD13	1:B:103:LYS:H	3	0.61
(1,1110)	1:B:89:LEU:HD11	1:B:88:GLU:H	8	0.61
(1,1110)	1:B:89:LEU:HD12	1:B:88:GLU:H	8	0.61
(1,1110)	1:B:89:LEU:HD13	1:B:88:GLU:H	8	0.61
(1,1079)	1:B:85:SER:HB2	1:B:88:GLU:H	5	0.61
(1,1065)	1:B:84:PHE:HB2	1:B:84:PHE:H	8	0.61
(1,1065)	1:B:84:PHE:HB3	1:B:84:PHE:H	8	0.61
(1,1063)	1:B:84:PHE:HB2	1:B:84:PHE:H	8	0.61
(1,1063)	1:B:84:PHE:HB3	1:B:84:PHE:H	8	0.61
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	1	0.61
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	1	0.61
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	6	0.61
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	6	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	6	0.61
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	6	0.61
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	6	0.61
(1,884)	1:B:70:LEU:H	1:B:70:LEU:HB3	2	0.6
(1,862)	1:A:150:LYS:HG2	1:A:151:GLN:H	2	0.6
(1,862)	1:A:150:LYS:HG3	1:A:151:GLN:H	2	0.6
(1,829)	1:A:146:ASP:H	1:A:134:THR:H	3	0.6
(1,828)	1:A:146:ASP:H	1:A:134:THR:H	3	0.6
(1,823)	1:A:145:VAL:HG21	1:A:146:ASP:H	3	0.6
(1,823)	1:A:145:VAL:HG22	1:A:146:ASP:H	3	0.6
(1,823)	1:A:145:VAL:HG23	1:A:146:ASP:H	3	0.6
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	3	0.6
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	6	0.6
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	3	0.6
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	3	0.6
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	3	0.6
(1,555)	1:A:118:PHE:HB2	1:A:117:GLU:H	7	0.6
(1,451)	1:A:109:ASP:H	1:A:112:GLY:H	8	0.6
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	7	0.6
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	1	0.6
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	1	0.6
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	6	0.6
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	6	0.6
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	6	0.6
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	6	0.6
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	5	0.6
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	2	0.6
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	9	0.6
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	9	0.6
(1,251)	1:A:89:LEU:HG	1:A:90:LYS:H	4	0.6
(1,243)	1:A:89:LEU:HD11	1:A:88:GLU:H	2	0.6
(1,243)	1:A:89:LEU:HD12	1:A:88:GLU:H	2	0.6
(1,243)	1:A:89:LEU:HD13	1:A:88:GLU:H	2	0.6
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD21	2	0.6
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD22	2	0.6
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD23	2	0.6
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD21	2	0.6
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD22	2	0.6
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD23	2	0.6
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	5	0.6
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	5	0.6
(1,1740)	1:A:113:PHE:HD1	1:B:121:LYS:H	4	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1740)	1:A:113:PHE:HD2	1:B:121:LYS:H	4	0.6
(1,1729)	1:B:150:LYS:HG2	1:B:151:GLN:H	2	0.6
(1,1729)	1:B:150:LYS:HG3	1:B:151:GLN:H	2	0.6
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	9	0.6
(1,17)	1:A:70:LEU:H	1:A:70:LEU:HB3	2	0.6
(1,1696)	1:B:146:ASP:H	1:B:134:THR:H	3	0.6
(1,1695)	1:B:146:ASP:H	1:B:134:THR:H	3	0.6
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	3	0.6
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	6	0.6
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	6	0.6
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	3	0.6
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	3	0.6
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	3	0.6
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	6	0.6
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	3	0.6
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	3	0.6
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	3	0.6
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	8	0.6
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	8	0.6
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	8	0.6
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	9	0.6
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	9	0.6
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	9	0.6
(1,1422)	1:B:118:PHE:HB2	1:B:117:GLU:H	7	0.6
(1,1318)	1:B:109:ASP:H	1:B:112:GLY:H	8	0.6
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	7	0.6
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	1	0.6
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	1	0.6
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	6	0.6
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	6	0.6
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	6	0.6
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	6	0.6
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	5	0.6
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	2	0.6
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	9	0.6
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	9	0.6
(1,1118)	1:B:89:LEU:HG	1:B:90:LYS:H	4	0.6
(1,1110)	1:B:89:LEU:HD11	1:B:88:GLU:H	2	0.6
(1,1110)	1:B:89:LEU:HD12	1:B:88:GLU:H	2	0.6
(1,1110)	1:B:89:LEU:HD13	1:B:88:GLU:H	2	0.6
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD21	2	0.6
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD22	2	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD23	2	0.6
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD21	2	0.6
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD22	2	0.6
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD23	2	0.6
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	5	0.6
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	5	0.6
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	3	0.6
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	3	0.6
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	3	0.6
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	8	0.6
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	8	0.6
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	8	0.6
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	9	0.6
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	9	0.6
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	9	0.6
(1,1020)	1:B:81:VAL:HG11	1:B:80:ASP:HA	1	0.6
(1,1020)	1:B:81:VAL:HG12	1:B:80:ASP:HA	1	0.6
(1,1020)	1:B:81:VAL:HG13	1:B:80:ASP:HA	1	0.6
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG2	6	0.59
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG3	6	0.59
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	2	0.59
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	2	0.59
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	8	0.59
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	8	0.59
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	7	0.59
(1,831)	1:A:146:ASP:HB2	1:A:145:VAL:HA	8	0.59
(1,796)	1:A:144:THR:HA	1:A:79:LEU:HD11	5	0.59
(1,796)	1:A:144:THR:HA	1:A:79:LEU:HD12	5	0.59
(1,796)	1:A:144:THR:HA	1:A:79:LEU:HD13	5	0.59
(1,796)	1:A:144:THR:HA	1:A:79:LEU:HD21	5	0.59
(1,796)	1:A:144:THR:HA	1:A:79:LEU:HD22	5	0.59
(1,796)	1:A:144:THR:HA	1:A:79:LEU:HD23	5	0.59
(1,758)	1:A:138:SER:HA	1:A:141:GLY:H	3	0.59
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	6	0.59
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	6	0.59
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	6	0.59
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	6	0.59
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	6	0.59
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	6	0.59
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	6	0.59
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	6	0.59
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	6	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	6	0.59
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	6	0.59
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	6	0.59
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD1	1	0.59
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD2	1	0.59
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	2	0.59
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	9	0.59
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	8	0.59
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	5	0.59
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG2	6	0.59
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG3	6	0.59
(1,244)	1:A:89:LEU:HD21	1:A:88:GLU:H	1	0.59
(1,244)	1:A:89:LEU:HD22	1:A:88:GLU:H	1	0.59
(1,244)	1:A:89:LEU:HD23	1:A:88:GLU:H	1	0.59
(1,198)	1:A:84:PHE:HB2	1:A:84:PHE:H	3	0.59
(1,198)	1:A:84:PHE:HB3	1:A:84:PHE:H	3	0.59
(1,196)	1:A:84:PHE:HB2	1:A:84:PHE:H	3	0.59
(1,196)	1:A:84:PHE:HB3	1:A:84:PHE:H	3	0.59
(1,1768)	1:A:122:TYR:HA	1:B:112:GLY:H	9	0.59
(1,1750)	1:A:115:SER:HB2	1:B:119:HIS:HE1	6	0.59
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	2	0.59
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	2	0.59
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	8	0.59
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	8	0.59
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	7	0.59
(1,1698)	1:B:146:ASP:HB2	1:B:145:VAL:HA	8	0.59
(1,1663)	1:B:144:THR:HA	1:B:79:LEU:HD11	5	0.59
(1,1663)	1:B:144:THR:HA	1:B:79:LEU:HD12	5	0.59
(1,1663)	1:B:144:THR:HA	1:B:79:LEU:HD13	5	0.59
(1,1663)	1:B:144:THR:HA	1:B:79:LEU:HD21	5	0.59
(1,1663)	1:B:144:THR:HA	1:B:79:LEU:HD22	5	0.59
(1,1663)	1:B:144:THR:HA	1:B:79:LEU:HD23	5	0.59
(1,1625)	1:B:138:SER:HA	1:B:141:GLY:H	3	0.59
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	2	0.59
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	2	0.59
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	2	0.59
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	6	0.59
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	6	0.59
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	6	0.59
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	6	0.59
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	6	0.59
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	6	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,154)	1:A:81:VAL:HG21	1:A:81:VAL:HA	7	0.59
(1,154)	1:A:81:VAL:HG22	1:A:81:VAL:HA	7	0.59
(1,154)	1:A:81:VAL:HG23	1:A:81:VAL:HA	7	0.59
(1,153)	1:A:81:VAL:HG11	1:A:80:ASP:HA	1	0.59
(1,153)	1:A:81:VAL:HG12	1:A:80:ASP:HA	1	0.59
(1,153)	1:A:81:VAL:HG13	1:A:80:ASP:HA	1	0.59
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	6	0.59
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	6	0.59
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	6	0.59
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	6	0.59
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	6	0.59
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	6	0.59
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD1	1	0.59
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD2	1	0.59
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	6	0.59
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	2	0.59
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	9	0.59
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	8	0.59
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	5	0.59
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE1	4	0.59
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE2	4	0.59
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE1	4	0.59
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE2	4	0.59
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE1	4	0.59
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE2	4	0.59
(1,1065)	1:B:84:PHE:HB2	1:B:84:PHE:H	3	0.59
(1,1065)	1:B:84:PHE:HB3	1:B:84:PHE:H	3	0.59
(1,1063)	1:B:84:PHE:HB2	1:B:84:PHE:H	3	0.59
(1,1063)	1:B:84:PHE:HB3	1:B:84:PHE:H	3	0.59
(1,1021)	1:B:81:VAL:HG21	1:B:81:VAL:HA	7	0.59
(1,1021)	1:B:81:VAL:HG22	1:B:81:VAL:HA	7	0.59
(1,1021)	1:B:81:VAL:HG23	1:B:81:VAL:HA	7	0.59
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE1	4	0.58
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE2	4	0.58
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE1	4	0.58
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE2	4	0.58
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE1	4	0.58
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE2	4	0.58
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB2	5	0.58
(1,971)	1:B:77:VAL:HG21	1:B:79:LEU:HB3	5	0.58
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB2	5	0.58
(1,971)	1:B:77:VAL:HG22	1:B:79:LEU:HB3	5	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB2	5	0.58
(1,971)	1:B:77:VAL:HG23	1:B:79:LEU:HB3	5	0.58
(1,923)	1:B:75:PHE:HD1	1:B:148:PRO:HA	1	0.58
(1,923)	1:B:75:PHE:HD2	1:B:148:PRO:HA	1	0.58
(1,9)	1:A:68:MET:HE1	1:A:68:MET:H	8	0.58
(1,9)	1:A:68:MET:HE2	1:A:68:MET:H	8	0.58
(1,9)	1:A:68:MET:HE3	1:A:68:MET:H	8	0.58
(1,899)	1:B:73:ASP:H	1:B:72:LYS:H	3	0.58
(1,876)	1:B:68:MET:HE1	1:B:68:MET:H	8	0.58
(1,876)	1:B:68:MET:HE2	1:B:68:MET:H	8	0.58
(1,876)	1:B:68:MET:HE3	1:B:68:MET:H	8	0.58
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	3	0.58
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	3	0.58
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	2	0.58
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	5	0.58
(1,813)	1:A:145:VAL:HA	1:A:135:SER:H	3	0.58
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	5	0.58
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	5	0.58
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	5	0.58
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	8	0.58
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	8	0.58
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	8	0.58
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	5	0.58
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	5	0.58
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	5	0.58
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	5	0.58
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	5	0.58
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	5	0.58
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	1	0.58
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	6	0.58
(1,579)	1:A:119:HIS:H	1:A:120:ARG:H	7	0.58
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	1	0.58
(1,56)	1:A:75:PHE:HD1	1:A:148:PRO:HA	1	0.58
(1,56)	1:A:75:PHE:HD2	1:A:148:PRO:HA	1	0.58
(1,550)	1:A:118:PHE:HE1	1:A:102:GLY:H	1	0.58
(1,550)	1:A:118:PHE:HE2	1:A:102:GLY:H	1	0.58
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	6	0.58
(1,516)	1:A:114:ILE:H	1:A:114:ILE:HG12	1	0.58
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	4	0.58
(1,432)	1:A:107:ARG:HG2	1:A:108:GLN:H	5	0.58
(1,432)	1:A:107:ARG:HG3	1:A:108:GLN:H	5	0.58
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	1	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	3	0.58
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	9	0.58
(1,32)	1:A:73:ASP:H	1:A:72:LYS:H	3	0.58
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB2	2	0.58
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB3	2	0.58
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	5	0.58
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	3	0.58
(1,198)	1:A:84:PHE:HB2	1:A:84:PHE:H	6	0.58
(1,198)	1:A:84:PHE:HB3	1:A:84:PHE:H	6	0.58
(1,196)	1:A:84:PHE:HB2	1:A:84:PHE:H	6	0.58
(1,196)	1:A:84:PHE:HB3	1:A:84:PHE:H	6	0.58
(1,195)	1:A:84:PHE:HD1	1:A:84:PHE:H	1	0.58
(1,195)	1:A:84:PHE:HD2	1:A:84:PHE:H	1	0.58
(1,192)	1:A:84:PHE:HD1	1:A:83:HIS:HB3	4	0.58
(1,192)	1:A:84:PHE:HD2	1:A:83:HIS:HB3	4	0.58
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	3	0.58
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	3	0.58
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	2	0.58
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	5	0.58
(1,1680)	1:B:145:VAL:HA	1:B:135:SER:H	3	0.58
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	5	0.58
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	5	0.58
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	5	0.58
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	8	0.58
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	8	0.58
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	8	0.58
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	5	0.58
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	5	0.58
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	5	0.58
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	5	0.58
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	5	0.58
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	5	0.58
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	1	0.58
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	6	0.58
(1,1446)	1:B:119:HIS:H	1:B:120:ARG:H	7	0.58
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	1	0.58
(1,1417)	1:B:118:PHE:HE1	1:B:102:GLY:H	1	0.58
(1,1417)	1:B:118:PHE:HE2	1:B:102:GLY:H	1	0.58
(1,1383)	1:B:114:ILE:H	1:B:114:ILE:HG12	1	0.58
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	3	0.58
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	4	0.58
(1,1299)	1:B:107:ARG:HG2	1:B:108:GLN:H	5	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1299)	1:B:107:ARG:HG3	1:B:108:GLN:H	5	0.58
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	1	0.58
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	9	0.58
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB2	2	0.58
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB3	2	0.58
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	5	0.58
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	3	0.58
(1,1111)	1:B:89:LEU:HD21	1:B:88:GLU:H	1	0.58
(1,1111)	1:B:89:LEU:HD22	1:B:88:GLU:H	1	0.58
(1,1111)	1:B:89:LEU:HD23	1:B:88:GLU:H	1	0.58
(1,1065)	1:B:84:PHE:HB2	1:B:84:PHE:H	6	0.58
(1,1065)	1:B:84:PHE:HB3	1:B:84:PHE:H	6	0.58
(1,1063)	1:B:84:PHE:HB2	1:B:84:PHE:H	6	0.58
(1,1063)	1:B:84:PHE:HB3	1:B:84:PHE:H	6	0.58
(1,1062)	1:B:84:PHE:HD1	1:B:84:PHE:H	1	0.58
(1,1062)	1:B:84:PHE:HD2	1:B:84:PHE:H	1	0.58
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB2	5	0.58
(1,104)	1:A:77:VAL:HG21	1:A:79:LEU:HB3	5	0.58
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB2	5	0.58
(1,104)	1:A:77:VAL:HG22	1:A:79:LEU:HB3	5	0.58
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB2	5	0.58
(1,104)	1:A:77:VAL:HG23	1:A:79:LEU:HB3	5	0.58
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	1	0.57
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	1	0.57
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	1	0.57
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	3	0.57
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	3	0.57
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	3	0.57
(1,97)	1:A:77:VAL:HG21	1:A:77:VAL:H	3	0.57
(1,97)	1:A:77:VAL:HG22	1:A:77:VAL:H	3	0.57
(1,97)	1:A:77:VAL:HG23	1:A:77:VAL:H	3	0.57
(1,902)	1:B:73:ASP:H	1:B:74:ARG:HB3	6	0.57
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD11	3	0.57
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD12	3	0.57
(1,845)	1:A:147:GLY:HA2	1:A:133:ILE:HD13	3	0.57
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	5	0.57
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	5	0.57
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	5	0.57
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	5	0.57
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG21	3	0.57
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG22	3	0.57
(1,720)	1:A:133:ILE:HG12	1:A:133:ILE:HG23	3	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG21	3	0.57
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG22	3	0.57
(1,720)	1:A:133:ILE:HG13	1:A:133:ILE:HG23	3	0.57
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	9	0.57
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	9	0.57
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	9	0.57
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	4	0.57
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	4	0.57
(1,580)	1:A:120:ARG:H	1:A:100:VAL:H	8	0.57
(1,565)	1:A:118:PHE:HB2	1:A:119:HIS:H	4	0.57
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	3	0.57
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG2	7	0.57
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG3	7	0.57
(1,35)	1:A:73:ASP:H	1:A:74:ARG:HB3	6	0.57
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	8	0.57
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	8	0.57
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	1	0.57
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	6	0.57
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	7	0.57
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	2	0.57
(1,244)	1:A:89:LEU:HD21	1:A:88:GLU:H	6	0.57
(1,244)	1:A:89:LEU:HD22	1:A:88:GLU:H	6	0.57
(1,244)	1:A:89:LEU:HD23	1:A:88:GLU:H	6	0.57
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	5	0.57
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	5	0.57
(1,198)	1:A:84:PHE:HB2	1:A:84:PHE:H	7	0.57
(1,198)	1:A:84:PHE:HB3	1:A:84:PHE:H	7	0.57
(1,196)	1:A:84:PHE:HB2	1:A:84:PHE:H	7	0.57
(1,196)	1:A:84:PHE:HB3	1:A:84:PHE:H	7	0.57
(1,180)	1:A:83:HIS:HB2	1:A:83:HIS:H	1	0.57
(1,180)	1:A:83:HIS:HB2	1:A:83:HIS:H	9	0.57
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD11	3	0.57
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD12	3	0.57
(1,1712)	1:B:147:GLY:HA2	1:B:133:ILE:HD13	3	0.57
(1,171)	1:A:83:HIS:H	1:A:82:LYS:HG2	2	0.57
(1,171)	1:A:83:HIS:H	1:A:82:LYS:HG3	2	0.57
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	5	0.57
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	5	0.57
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	5	0.57
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	5	0.57
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	6	0.57
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	6	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	6	0.57
(1,163)	1:A:81:VAL:HG21	1:A:83:HIS:H	7	0.57
(1,163)	1:A:81:VAL:HG22	1:A:83:HIS:H	7	0.57
(1,163)	1:A:81:VAL:HG23	1:A:83:HIS:H	7	0.57
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG21	3	0.57
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG22	3	0.57
(1,1587)	1:B:133:ILE:HG12	1:B:133:ILE:HG23	3	0.57
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG21	3	0.57
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG22	3	0.57
(1,1587)	1:B:133:ILE:HG13	1:B:133:ILE:HG23	3	0.57
(1,157)	1:A:81:VAL:HG21	1:A:81:VAL:H	6	0.57
(1,157)	1:A:81:VAL:HG22	1:A:81:VAL:H	6	0.57
(1,157)	1:A:81:VAL:HG23	1:A:81:VAL:H	6	0.57
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	9	0.57
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	9	0.57
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	9	0.57
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	4	0.57
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	4	0.57
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	4	0.57
(1,1432)	1:B:118:PHE:HB2	1:B:119:HIS:H	4	0.57
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG2	7	0.57
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG3	7	0.57
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	3	0.57
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	8	0.57
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	8	0.57
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	1	0.57
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	1	0.57
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	6	0.57
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	7	0.57
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	2	0.57
(1,1111)	1:B:89:LEU:HD21	1:B:88:GLU:H	6	0.57
(1,1111)	1:B:89:LEU:HD22	1:B:88:GLU:H	6	0.57
(1,1111)	1:B:89:LEU:HD23	1:B:88:GLU:H	6	0.57
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	5	0.57
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	5	0.57
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	3	0.57
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	3	0.57
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	3	0.57
(1,1065)	1:B:84:PHE:HB2	1:B:84:PHE:H	7	0.57
(1,1065)	1:B:84:PHE:HB3	1:B:84:PHE:H	7	0.57
(1,1063)	1:B:84:PHE:HB2	1:B:84:PHE:H	7	0.57
(1,1063)	1:B:84:PHE:HB3	1:B:84:PHE:H	7	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1059)	1:B:84:PHE:HD1	1:B:83:HIS:HB3	4	0.57
(1,1059)	1:B:84:PHE:HD2	1:B:83:HIS:HB3	4	0.57
(1,1047)	1:B:83:HIS:HB2	1:B:83:HIS:H	1	0.57
(1,1047)	1:B:83:HIS:HB2	1:B:83:HIS:H	9	0.57
(1,1038)	1:B:83:HIS:H	1:B:82:LYS:HG2	2	0.57
(1,1038)	1:B:83:HIS:H	1:B:82:LYS:HG3	2	0.57
(1,1030)	1:B:81:VAL:HG21	1:B:83:HIS:H	7	0.57
(1,1030)	1:B:81:VAL:HG22	1:B:83:HIS:H	7	0.57
(1,1030)	1:B:81:VAL:HG23	1:B:83:HIS:H	7	0.57
(1,1024)	1:B:81:VAL:HG21	1:B:81:VAL:H	6	0.57
(1,1024)	1:B:81:VAL:HG22	1:B:81:VAL:H	6	0.57
(1,1024)	1:B:81:VAL:HG23	1:B:81:VAL:H	6	0.57
(1,1018)	1:B:81:VAL:HG11	1:B:79:LEU:HG	2	0.57
(1,1018)	1:B:81:VAL:HG12	1:B:79:LEU:HG	2	0.57
(1,1018)	1:B:81:VAL:HG13	1:B:79:LEU:HG	2	0.57
(1,986)	1:B:77:VAL:HB	1:B:146:ASP:HB3	4	0.56
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD11	3	0.56
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD12	3	0.56
(1,977)	1:B:77:VAL:HG11	1:B:98:ILE:HD13	3	0.56
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD11	3	0.56
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD12	3	0.56
(1,977)	1:B:77:VAL:HG12	1:B:98:ILE:HD13	3	0.56
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD11	3	0.56
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD12	3	0.56
(1,977)	1:B:77:VAL:HG13	1:B:98:ILE:HD13	3	0.56
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	9	0.56
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	6	0.56
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	6	0.56
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	6	0.56
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD11	4	0.56
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD12	4	0.56
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD13	4	0.56
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD21	4	0.56
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD22	4	0.56
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD23	4	0.56
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	2	0.56
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	2	0.56
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	2	0.56
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	2	0.56
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	2	0.56
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	2	0.56
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	4	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	7	0.56
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	7	0.56
(1,481)	1:A:113:PHE:HA	1:A:107:ARG:HB2	4	0.56
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB2	6	0.56
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB3	6	0.56
(1,443)	1:A:108:GLN:HA	1:A:109:ASP:H	1	0.56
(1,432)	1:A:107:ARG:HG2	1:A:108:GLN:H	7	0.56
(1,432)	1:A:107:ARG:HG3	1:A:108:GLN:H	7	0.56
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	5	0.56
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	6	0.56
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG2	5	0.56
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG3	5	0.56
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG2	5	0.56
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG3	5	0.56
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	1	0.56
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	4	0.56
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	9	0.56
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	6	0.56
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	7	0.56
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB2	8	0.56
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB3	8	0.56
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	1	0.56
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	1	0.56
(1,256)	1:A:89:LEU:HA	1:A:102:GLY:HA2	3	0.56
(1,255)	1:A:89:LEU:HA	1:A:102:GLY:HA2	3	0.56
(1,1762)	1:A:122:TYR:HB2	1:B:111:HIS:H	6	0.56
(1,1762)	1:A:122:TYR:HB3	1:B:111:HIS:H	6	0.56
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	9	0.56
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD11	4	0.56
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD12	4	0.56
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD13	4	0.56
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD21	4	0.56
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD22	4	0.56
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD23	4	0.56
(1,158)	1:A:81:VAL:H	1:A:81:VAL:HB	5	0.56
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	2	0.56
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	2	0.56
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	2	0.56
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	2	0.56
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	2	0.56
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	2	0.56
(1,151)	1:A:81:VAL:HG11	1:A:79:LEU:HG	2	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,151)	1:A:81:VAL:HG12	1:A:79:LEU:HG	2	0.56
(1,151)	1:A:81:VAL:HG13	1:A:79:LEU:HG	2	0.56
(1,1447)	1:B:120:ARG:H	1:B:100:VAL:H	8	0.56
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	7	0.56
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	7	0.56
(1,1348)	1:B:113:PHE:HA	1:B:107:ARG:HB2	4	0.56
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB2	6	0.56
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB3	6	0.56
(1,1299)	1:B:107:ARG:HG2	1:B:108:GLN:H	7	0.56
(1,1299)	1:B:107:ARG:HG3	1:B:108:GLN:H	7	0.56
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	5	0.56
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	6	0.56
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG2	5	0.56
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG3	5	0.56
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG2	5	0.56
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG3	5	0.56
(1,119)	1:A:77:VAL:HB	1:A:146:ASP:HB3	4	0.56
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	4	0.56
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	9	0.56
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	1	0.56
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	6	0.56
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	7	0.56
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	1	0.56
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	1	0.56
(1,1123)	1:B:89:LEU:HA	1:B:102:GLY:HA2	3	0.56
(1,1122)	1:B:89:LEU:HA	1:B:102:GLY:HA2	3	0.56
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD11	3	0.56
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD12	3	0.56
(1,110)	1:A:77:VAL:HG11	1:A:98:ILE:HD13	3	0.56
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD11	3	0.56
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD12	3	0.56
(1,110)	1:A:77:VAL:HG12	1:A:98:ILE:HD13	3	0.56
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD11	3	0.56
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD12	3	0.56
(1,110)	1:A:77:VAL:HG13	1:A:98:ILE:HD13	3	0.56
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	1	0.56
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	1	0.56
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	1	0.56
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	8	0.56
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	8	0.56
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	8	0.56
(1,1025)	1:B:81:VAL:H	1:B:81:VAL:HB	5	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG11	5	0.55
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG12	5	0.55
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG13	5	0.55
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG11	5	0.55
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG12	5	0.55
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG13	5	0.55
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG11	5	0.55
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG12	5	0.55
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG13	5	0.55
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE1	1	0.55
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE2	1	0.55
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE1	1	0.55
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE2	1	0.55
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE1	1	0.55
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE2	1	0.55
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	8	0.55
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	8	0.55
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	8	0.55
(1,964)	1:B:77:VAL:HG21	1:B:77:VAL:H	3	0.55
(1,964)	1:B:77:VAL:HG22	1:B:77:VAL:H	3	0.55
(1,964)	1:B:77:VAL:HG23	1:B:77:VAL:H	3	0.55
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD1	6	0.55
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD2	6	0.55
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD1	6	0.55
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD2	6	0.55
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD1	6	0.55
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD2	6	0.55
(1,917)	1:B:75:PHE:HD1	1:B:75:PHE:H	4	0.55
(1,917)	1:B:75:PHE:HD2	1:B:75:PHE:H	4	0.55
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD1	6	0.55
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD2	6	0.55
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD1	6	0.55
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD2	6	0.55
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD1	6	0.55
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD2	6	0.55
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	1	0.55
(1,841)	1:A:147:GLY:HA2	1:A:132:THR:HA	1	0.55
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	2	0.55
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	1	0.55
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	1	0.55
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	1	0.55
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	1	0.55
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	1	0.55
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	6	0.55
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	7	0.55
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	7	0.55
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	7	0.55
(1,615)	1:A:124:ILE:HB	1:A:97:VAL:HA	2	0.55
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD11	1	0.55
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD12	1	0.55
(1,53)	1:A:75:PHE:HE1	1:A:133:ILE:HD13	1	0.55
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD11	1	0.55
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD12	1	0.55
(1,53)	1:A:75:PHE:HE2	1:A:133:ILE:HD13	1	0.55
(1,50)	1:A:75:PHE:HD1	1:A:75:PHE:H	4	0.55
(1,50)	1:A:75:PHE:HD2	1:A:75:PHE:H	4	0.55
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE1	6	0.55
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE2	6	0.55
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE1	8	0.55
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE2	8	0.55
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	4	0.55
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	4	0.55
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	1	0.55
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	4	0.55
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	9	0.55
(1,216)	1:A:85:SER:HB2	1:A:89:LEU:H	1	0.55
(1,192)	1:A:84:PHE:HD1	1:A:83:HIS:HB3	6	0.55
(1,192)	1:A:84:PHE:HD2	1:A:83:HIS:HB3	6	0.55
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	8	0.55
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	1	0.55
(1,1708)	1:B:147:GLY:HA2	1:B:132:THR:HA	1	0.55
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	2	0.55
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	2	0.55
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	2	0.55
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	2	0.55
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	4	0.55
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	4	0.55
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	4	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	1	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	1	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	1	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	1	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	1	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	9	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	9	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	9	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	9	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	9	0.55
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	9	0.55
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	6	0.55
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	7	0.55
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	7	0.55
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	7	0.55
(1,1482)	1:B:124:ILE:HB	1:B:97:VAL:HA	2	0.55
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE1	6	0.55
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE2	6	0.55
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE1	8	0.55
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE2	8	0.55
(1,1310)	1:B:108:GLN:HA	1:B:109:ASP:H	1	0.55
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	8	0.55
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	4	0.55
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	4	0.55
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	4	0.55
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	4	0.55
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	4	0.55
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	4	0.55
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	4	0.55
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	9	0.55
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB2	8	0.55
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB3	8	0.55
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG11	5	0.55
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG12	5	0.55
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG13	5	0.55
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG11	5	0.55
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG12	5	0.55
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG13	5	0.55
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG11	5	0.55
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG12	5	0.55
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG13	5	0.55
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE1	1	0.55
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE2	1	0.55
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE1	1	0.55
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE2	1	0.55
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE1	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE2	1	0.55
(1,1083)	1:B:85:SER:HB2	1:B:89:LEU:H	1	0.55
(1,1059)	1:B:84:PHE:HD1	1:B:83:HIS:HB3	6	0.55
(1,1059)	1:B:84:PHE:HD2	1:B:83:HIS:HB3	6	0.55
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	8	0.55
(1,976)	1:B:77:VAL:HG21	1:B:79:LEU:H	4	0.54
(1,976)	1:B:77:VAL:HG22	1:B:79:LEU:H	4	0.54
(1,976)	1:B:77:VAL:HG23	1:B:79:LEU:H	4	0.54
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD11	1	0.54
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD12	1	0.54
(1,920)	1:B:75:PHE:HE1	1:B:133:ILE:HD13	1	0.54
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD11	1	0.54
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD12	1	0.54
(1,920)	1:B:75:PHE:HE2	1:B:133:ILE:HD13	1	0.54
(1,886)	1:B:70:LEU:HD11	1:B:70:LEU:H	8	0.54
(1,886)	1:B:70:LEU:HD12	1:B:70:LEU:H	8	0.54
(1,886)	1:B:70:LEU:HD13	1:B:70:LEU:H	8	0.54
(1,886)	1:B:70:LEU:HD21	1:B:70:LEU:H	8	0.54
(1,886)	1:B:70:LEU:HD22	1:B:70:LEU:H	8	0.54
(1,886)	1:B:70:LEU:HD23	1:B:70:LEU:H	8	0.54
(1,885)	1:B:70:LEU:HD11	1:B:70:LEU:H	8	0.54
(1,885)	1:B:70:LEU:HD12	1:B:70:LEU:H	8	0.54
(1,885)	1:B:70:LEU:HD13	1:B:70:LEU:H	8	0.54
(1,885)	1:B:70:LEU:HD21	1:B:70:LEU:H	8	0.54
(1,885)	1:B:70:LEU:HD22	1:B:70:LEU:H	8	0.54
(1,885)	1:B:70:LEU:HD23	1:B:70:LEU:H	8	0.54
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD11	1	0.54
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD12	1	0.54
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD13	1	0.54
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD21	1	0.54
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD22	1	0.54
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD23	1	0.54
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	6	0.54
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	2	0.54
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	2	0.54
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	2	0.54
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	4	0.54
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	4	0.54
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	4	0.54
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	7	0.54
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	7	0.54
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	7	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,700)	1:A:132:THR:HG21	1:A:132:THR:H	5	0.54
(1,700)	1:A:132:THR:HG22	1:A:132:THR:H	5	0.54
(1,700)	1:A:132:THR:HG23	1:A:132:THR:H	5	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	9	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	9	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	9	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	9	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	9	0.54
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	9	0.54
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	9	0.54
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG11	9	0.54
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG12	9	0.54
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG13	9	0.54
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG21	9	0.54
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG22	9	0.54
(1,604)	1:A:123:ARG:HB2	1:A:97:VAL:HG23	9	0.54
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	6	0.54
(1,569)	1:A:119:HIS:HA	1:A:101:HIS:HA	9	0.54
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	3	0.54
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	8	0.54
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	8	0.54
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE1	5	0.54
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE2	5	0.54
(1,451)	1:A:109:ASP:H	1:A:112:GLY:H	7	0.54
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD11	1	0.54
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD12	1	0.54
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD13	1	0.54
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD21	1	0.54
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD22	1	0.54
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD23	1	0.54
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	8	0.54
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	9	0.54
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	9	0.54
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	9	0.54
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	9	0.54
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	9	0.54
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	9	0.54
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	5	0.54
(1,193)	1:A:84:PHE:HD1	1:A:83:HIS:HA	6	0.54
(1,193)	1:A:84:PHE:HD2	1:A:83:HIS:HA	6	0.54
(1,19)	1:A:70:LEU:HD11	1:A:70:LEU:H	8	0.54
(1,19)	1:A:70:LEU:HD12	1:A:70:LEU:H	8	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,19)	1:A:70:LEU:HD13	1:A:70:LEU:H	8	0.54
(1,19)	1:A:70:LEU:HD21	1:A:70:LEU:H	8	0.54
(1,19)	1:A:70:LEU:HD22	1:A:70:LEU:H	8	0.54
(1,19)	1:A:70:LEU:HD23	1:A:70:LEU:H	8	0.54
(1,18)	1:A:70:LEU:HD11	1:A:70:LEU:H	8	0.54
(1,18)	1:A:70:LEU:HD12	1:A:70:LEU:H	8	0.54
(1,18)	1:A:70:LEU:HD13	1:A:70:LEU:H	8	0.54
(1,18)	1:A:70:LEU:HD21	1:A:70:LEU:H	8	0.54
(1,18)	1:A:70:LEU:HD22	1:A:70:LEU:H	8	0.54
(1,18)	1:A:70:LEU:HD23	1:A:70:LEU:H	8	0.54
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	2	0.54
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	6	0.54
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	3	0.54
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	3	0.54
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	3	0.54
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	7	0.54
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	7	0.54
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	7	0.54
(1,158)	1:A:81:VAL:H	1:A:81:VAL:HB	3	0.54
(1,1567)	1:B:132:THR:HG21	1:B:132:THR:H	5	0.54
(1,1567)	1:B:132:THR:HG22	1:B:132:THR:H	5	0.54
(1,1567)	1:B:132:THR:HG23	1:B:132:THR:H	5	0.54
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	1	0.54
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	1	0.54
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	1	0.54
(1,153)	1:A:81:VAL:HG11	1:A:80:ASP:HA	4	0.54
(1,153)	1:A:81:VAL:HG12	1:A:80:ASP:HA	4	0.54
(1,153)	1:A:81:VAL:HG13	1:A:80:ASP:HA	4	0.54
(1,153)	1:A:81:VAL:HG11	1:A:80:ASP:HA	7	0.54
(1,153)	1:A:81:VAL:HG12	1:A:80:ASP:HA	7	0.54
(1,153)	1:A:81:VAL:HG13	1:A:80:ASP:HA	7	0.54
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	9	0.54
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG11	9	0.54
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG12	9	0.54
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG13	9	0.54
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG21	9	0.54
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG22	9	0.54
(1,1471)	1:B:123:ARG:HB2	1:B:97:VAL:HG23	9	0.54
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	6	0.54
(1,1436)	1:B:119:HIS:HA	1:B:101:HIS:HA	9	0.54
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	3	0.54
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	8	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	8	0.54
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE1	5	0.54
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE2	5	0.54
(1,1318)	1:B:109:ASP:H	1:B:112:GLY:H	7	0.54
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	4	0.54
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	4	0.54
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	9	0.54
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	9	0.54
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	9	0.54
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	9	0.54
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	9	0.54
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	9	0.54
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	5	0.54
(1,109)	1:A:77:VAL:HG21	1:A:79:LEU:H	4	0.54
(1,109)	1:A:77:VAL:HG22	1:A:79:LEU:H	4	0.54
(1,109)	1:A:77:VAL:HG23	1:A:79:LEU:H	4	0.54
(1,1060)	1:B:84:PHE:HD1	1:B:83:HIS:HA	6	0.54
(1,1060)	1:B:84:PHE:HD2	1:B:83:HIS:HA	6	0.54
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	9	0.54
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	9	0.54
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	2	0.54
(1,1025)	1:B:81:VAL:H	1:B:81:VAL:HB	3	0.54
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	1	0.54
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	1	0.54
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	1	0.54
(1,1020)	1:B:81:VAL:HG11	1:B:80:ASP:HA	4	0.54
(1,1020)	1:B:81:VAL:HG12	1:B:80:ASP:HA	4	0.54
(1,1020)	1:B:81:VAL:HG13	1:B:80:ASP:HA	4	0.54
(1,1020)	1:B:81:VAL:HG11	1:B:80:ASP:HA	7	0.54
(1,1020)	1:B:81:VAL:HG12	1:B:80:ASP:HA	7	0.54
(1,1020)	1:B:81:VAL:HG13	1:B:80:ASP:HA	7	0.54
(1,97)	1:A:77:VAL:HG21	1:A:77:VAL:H	7	0.53
(1,97)	1:A:77:VAL:HG22	1:A:77:VAL:H	7	0.53
(1,97)	1:A:77:VAL:HG23	1:A:77:VAL:H	7	0.53
(1,964)	1:B:77:VAL:HG21	1:B:77:VAL:H	7	0.53
(1,964)	1:B:77:VAL:HG22	1:B:77:VAL:H	7	0.53
(1,964)	1:B:77:VAL:HG23	1:B:77:VAL:H	7	0.53
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	3	0.53
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	3	0.53
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	3	0.53
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	8	0.53
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	8	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	8	0.53
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	9	0.53
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	9	0.53
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	9	0.53
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD11	7	0.53
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD12	7	0.53
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD13	7	0.53
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD21	7	0.53
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD22	7	0.53
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD23	7	0.53
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD11	2	0.53
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD12	2	0.53
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD13	2	0.53
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD21	2	0.53
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD22	2	0.53
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD23	2	0.53
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	7	0.53
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	5	0.53
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	5	0.53
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	6	0.53
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	6	0.53
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	5	0.53
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	8	0.53
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB2	3	0.53
(1,538)	1:A:116:ARG:H	1:A:116:ARG:HB3	3	0.53
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE1	2	0.53
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE2	2	0.53
(1,470)	1:A:111:HIS:HA	1:A:112:GLY:H	1	0.53
(1,432)	1:A:107:ARG:HG2	1:A:108:GLN:H	2	0.53
(1,432)	1:A:107:ARG:HG3	1:A:108:GLN:H	2	0.53
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	4	0.53
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	4	0.53
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	4	0.53
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	4	0.53
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	4	0.53
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	4	0.53
(1,281)	1:A:92:LYS:H	1:A:101:HIS:H	7	0.53
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	9	0.53
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	9	0.53
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	9	0.53
(1,193)	1:A:84:PHE:HD1	1:A:83:HIS:HA	8	0.53
(1,193)	1:A:84:PHE:HD2	1:A:83:HIS:HA	8	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	9	0.53
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	9	0.53
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	8	0.53
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	8	0.53
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	4	0.53
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	1	0.53
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	8	0.53
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	8	0.53
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	8	0.53
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	9	0.53
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	9	0.53
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	9	0.53
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD11	7	0.53
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD12	7	0.53
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD13	7	0.53
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD21	7	0.53
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD22	7	0.53
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD23	7	0.53
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD11	2	0.53
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD12	2	0.53
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD13	2	0.53
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD21	2	0.53
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD22	2	0.53
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD23	2	0.53
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	2	0.53
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	2	0.53
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	2	0.53
(1,1553)	1:B:129:ASP:H	1:B:132:THR:HG1	8	0.53
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	2	0.53
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	2	0.53
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	2	0.53
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	7	0.53
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	5	0.53
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	5	0.53
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	6	0.53
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	6	0.53
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	5	0.53
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	8	0.53
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB2	3	0.53
(1,1405)	1:B:116:ARG:H	1:B:116:ARG:HB3	3	0.53
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE1	2	0.53
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE2	2	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1337)	1:B:111:HIS:HA	1:B:112:GLY:H	1	0.53
(1,1299)	1:B:107:ARG:HG2	1:B:108:GLN:H	2	0.53
(1,1299)	1:B:107:ARG:HG3	1:B:108:GLN:H	2	0.53
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	3	0.53
(1,1148)	1:B:92:LYS:H	1:B:101:HIS:H	7	0.53
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	9	0.53
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	9	0.53
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	9	0.53
(1,1060)	1:B:84:PHE:HD1	1:B:83:HIS:HA	8	0.53
(1,1060)	1:B:84:PHE:HD2	1:B:83:HIS:HA	8	0.53
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	4	0.53
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	1	0.53
(1,893)	1:B:71:GLU:H	1:B:76:SER:H	9	0.52
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	3	0.52
(1,799)	1:A:144:THR:HG21	1:A:144:THR:HA	1	0.52
(1,799)	1:A:144:THR:HG22	1:A:144:THR:HA	1	0.52
(1,799)	1:A:144:THR:HG23	1:A:144:THR:HA	1	0.52
(1,783)	1:A:142:VAL:HG11	1:A:142:VAL:H	5	0.52
(1,783)	1:A:142:VAL:HG12	1:A:142:VAL:H	5	0.52
(1,783)	1:A:142:VAL:HG13	1:A:142:VAL:H	5	0.52
(1,783)	1:A:142:VAL:HG21	1:A:142:VAL:H	5	0.52
(1,783)	1:A:142:VAL:HG22	1:A:142:VAL:H	5	0.52
(1,783)	1:A:142:VAL:HG23	1:A:142:VAL:H	5	0.52
(1,782)	1:A:142:VAL:HG11	1:A:142:VAL:H	5	0.52
(1,782)	1:A:142:VAL:HG12	1:A:142:VAL:H	5	0.52
(1,782)	1:A:142:VAL:HG13	1:A:142:VAL:H	5	0.52
(1,782)	1:A:142:VAL:HG21	1:A:142:VAL:H	5	0.52
(1,782)	1:A:142:VAL:HG22	1:A:142:VAL:H	5	0.52
(1,782)	1:A:142:VAL:HG23	1:A:142:VAL:H	5	0.52
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	5	0.52
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	5	0.52
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	5	0.52
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	2	0.52
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	2	0.52
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	2	0.52
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	5	0.52
(1,544)	1:A:117:GLU:HA	1:A:103:LYS:HA	5	0.52
(1,543)	1:A:117:GLU:HA	1:A:103:LYS:HA	5	0.52
(1,512)	1:A:114:ILE:HD11	1:A:113:PHE:HA	1	0.52
(1,512)	1:A:114:ILE:HD12	1:A:113:PHE:HA	1	0.52
(1,512)	1:A:114:ILE:HD13	1:A:113:PHE:HA	1	0.52
(1,451)	1:A:109:ASP:H	1:A:112:GLY:H	1	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	3	0.52
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	4	0.52
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	4	0.52
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	4	0.52
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	4	0.52
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	4	0.52
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	4	0.52
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	5	0.52
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	5	0.52
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	5	0.52
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	5	0.52
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	5	0.52
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	5	0.52
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	6	0.52
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	6	0.52
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	6	0.52
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	6	0.52
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	6	0.52
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	6	0.52
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	7	0.52
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	7	0.52
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	7	0.52
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	7	0.52
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	7	0.52
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	7	0.52
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	6	0.52
(1,260)	1:A:89:LEU:HD21	1:A:103:LYS:H	1	0.52
(1,260)	1:A:89:LEU:HD22	1:A:103:LYS:H	1	0.52
(1,260)	1:A:89:LEU:HD23	1:A:103:LYS:H	1	0.52
(1,26)	1:A:71:GLU:H	1:A:76:SER:H	9	0.52
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	2	0.52
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	2	0.52
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	7	0.52
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	7	0.52
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD21	8	0.52
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD22	8	0.52
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD23	8	0.52
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD21	8	0.52
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD22	8	0.52
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD23	8	0.52
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	3	0.52
(1,1666)	1:B:144:THR:HG21	1:B:144:THR:HA	1	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1666)	1:B:144:THR:HG22	1:B:144:THR:HA	1	0.52
(1,1666)	1:B:144:THR:HG23	1:B:144:THR:HA	1	0.52
(1,1650)	1:B:142:VAL:HG11	1:B:142:VAL:H	5	0.52
(1,1650)	1:B:142:VAL:HG12	1:B:142:VAL:H	5	0.52
(1,1650)	1:B:142:VAL:HG13	1:B:142:VAL:H	5	0.52
(1,1650)	1:B:142:VAL:HG21	1:B:142:VAL:H	5	0.52
(1,1650)	1:B:142:VAL:HG22	1:B:142:VAL:H	5	0.52
(1,1650)	1:B:142:VAL:HG23	1:B:142:VAL:H	5	0.52
(1,1649)	1:B:142:VAL:HG11	1:B:142:VAL:H	5	0.52
(1,1649)	1:B:142:VAL:HG12	1:B:142:VAL:H	5	0.52
(1,1649)	1:B:142:VAL:HG13	1:B:142:VAL:H	5	0.52
(1,1649)	1:B:142:VAL:HG21	1:B:142:VAL:H	5	0.52
(1,1649)	1:B:142:VAL:HG22	1:B:142:VAL:H	5	0.52
(1,1649)	1:B:142:VAL:HG23	1:B:142:VAL:H	5	0.52
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	5	0.52
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	5	0.52
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	5	0.52
(1,157)	1:A:81:VAL:HG21	1:A:81:VAL:H	3	0.52
(1,157)	1:A:81:VAL:HG22	1:A:81:VAL:H	3	0.52
(1,157)	1:A:81:VAL:HG23	1:A:81:VAL:H	3	0.52
(1,1436)	1:B:119:HIS:HA	1:B:101:HIS:HA	5	0.52
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	5	0.52
(1,1411)	1:B:117:GLU:HA	1:B:103:LYS:HA	5	0.52
(1,1410)	1:B:117:GLU:HA	1:B:103:LYS:HA	5	0.52
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	5	0.52
(1,1379)	1:B:114:ILE:HD11	1:B:113:PHE:HA	1	0.52
(1,1379)	1:B:114:ILE:HD12	1:B:113:PHE:HA	1	0.52
(1,1379)	1:B:114:ILE:HD13	1:B:113:PHE:HA	1	0.52
(1,1318)	1:B:109:ASP:H	1:B:112:GLY:H	1	0.52
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	4	0.52
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	4	0.52
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	4	0.52
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	4	0.52
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	4	0.52
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	4	0.52
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	5	0.52
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	5	0.52
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	5	0.52
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	5	0.52
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	5	0.52
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	5	0.52
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	6	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	6	0.52
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	6	0.52
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	6	0.52
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	6	0.52
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	6	0.52
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	7	0.52
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	7	0.52
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	7	0.52
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	7	0.52
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	7	0.52
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	7	0.52
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	6	0.52
(1,1127)	1:B:89:LEU:HD21	1:B:103:LYS:H	1	0.52
(1,1127)	1:B:89:LEU:HD22	1:B:103:LYS:H	1	0.52
(1,1127)	1:B:89:LEU:HD23	1:B:103:LYS:H	1	0.52
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	7	0.52
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	7	0.52
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD21	8	0.52
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD22	8	0.52
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD23	8	0.52
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD21	8	0.52
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD22	8	0.52
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD23	8	0.52
(1,1024)	1:B:81:VAL:HG21	1:B:81:VAL:H	3	0.52
(1,1024)	1:B:81:VAL:HG22	1:B:81:VAL:H	3	0.52
(1,1024)	1:B:81:VAL:HG23	1:B:81:VAL:H	3	0.52
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	2	0.52
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	2	0.52
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	2	0.52
(1,926)	1:B:76:SER:HB2	1:B:75:PHE:HD1	9	0.51
(1,926)	1:B:76:SER:HB2	1:B:75:PHE:HD2	9	0.51
(1,887)	1:B:70:LEU:HB3	1:B:71:GLU:H	2	0.51
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	6	0.51
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	6	0.51
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	5	0.51
(1,831)	1:A:146:ASP:HB2	1:A:145:VAL:HA	3	0.51
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD11	3	0.51
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD12	3	0.51
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD13	3	0.51
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD21	3	0.51
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD22	3	0.51
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD23	3	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	9	0.51
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	9	0.51
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	9	0.51
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD2	8	0.51
(1,710)	1:A:132:THR:HB	1:A:148:PRO:HD3	8	0.51
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	5	0.51
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	5	0.51
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	5	0.51
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	9	0.51
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	9	0.51
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	9	0.51
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	5	0.51
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	5	0.51
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	5	0.51
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	9	0.51
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	9	0.51
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	9	0.51
(1,59)	1:A:76:SER:HB2	1:A:75:PHE:HD1	9	0.51
(1,59)	1:A:76:SER:HB2	1:A:75:PHE:HD2	9	0.51
(1,569)	1:A:119:HIS:HA	1:A:101:HIS:HA	5	0.51
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	9	0.51
(1,553)	1:A:118:PHE:HD1	1:A:103:LYS:H	9	0.51
(1,553)	1:A:118:PHE:HD2	1:A:103:LYS:H	9	0.51
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	5	0.51
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB2	8	0.51
(1,522)	1:A:115:SER:HB3	1:A:105:GLU:HB3	8	0.51
(1,510)	1:A:114:ILE:HG21	1:A:111:HIS:H	8	0.51
(1,510)	1:A:114:ILE:HG22	1:A:111:HIS:H	8	0.51
(1,510)	1:A:114:ILE:HG23	1:A:111:HIS:H	8	0.51
(1,471)	1:A:111:HIS:H	1:A:112:GLY:H	6	0.51
(1,468)	1:A:111:HIS:H	1:A:112:GLY:H	6	0.51
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	3	0.51
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	4	0.51
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	4	0.51
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	9	0.51
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	6	0.51
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	3	0.51
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	3	0.51
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	4	0.51
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	4	0.51
(1,320)	1:A:96:ASP:HA	1:A:124:ILE:H	3	0.51
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	2	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD2	3	0.51
(1,274)	1:A:92:LYS:H	1:A:92:LYS:HD3	3	0.51
(1,246)	1:A:89:LEU:H	1:A:89:LEU:HG	5	0.51
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	4	0.51
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	4	0.51
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD21	6	0.51
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD22	6	0.51
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD23	6	0.51
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD21	6	0.51
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD22	6	0.51
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD23	6	0.51
(1,203)	1:A:84:PHE:HE1	1:A:116:ARG:H	6	0.51
(1,203)	1:A:84:PHE:HE2	1:A:116:ARG:H	6	0.51
(1,20)	1:A:70:LEU:HB3	1:A:71:GLU:H	2	0.51
(1,177)	1:A:83:HIS:HA	1:A:83:HIS:HB2	6	0.51
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	6	0.51
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	6	0.51
(1,172)	1:A:83:HIS:HA	1:A:83:HIS:HB2	6	0.51
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	5	0.51
(1,1698)	1:B:146:ASP:HB2	1:B:145:VAL:HA	3	0.51
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	8	0.51
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD11	3	0.51
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD12	3	0.51
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD13	3	0.51
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD21	3	0.51
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD22	3	0.51
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD23	3	0.51
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	9	0.51
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	9	0.51
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	9	0.51
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD2	8	0.51
(1,1577)	1:B:132:THR:HB	1:B:148:PRO:HD3	8	0.51
(1,154)	1:A:81:VAL:HG21	1:A:81:VAL:HA	4	0.51
(1,154)	1:A:81:VAL:HG22	1:A:81:VAL:HA	4	0.51
(1,154)	1:A:81:VAL:HG23	1:A:81:VAL:HA	4	0.51
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	5	0.51
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	5	0.51
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	5	0.51
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	9	0.51
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	9	0.51
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	9	0.51
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	5	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	5	0.51
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	5	0.51
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	9	0.51
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	9	0.51
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	9	0.51
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	9	0.51
(1,1420)	1:B:118:PHE:HD1	1:B:103:LYS:H	9	0.51
(1,1420)	1:B:118:PHE:HD2	1:B:103:LYS:H	9	0.51
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB2	8	0.51
(1,1389)	1:B:115:SER:HB3	1:B:105:GLU:HB3	8	0.51
(1,1377)	1:B:114:ILE:HG21	1:B:111:HIS:H	8	0.51
(1,1377)	1:B:114:ILE:HG22	1:B:111:HIS:H	8	0.51
(1,1377)	1:B:114:ILE:HG23	1:B:111:HIS:H	8	0.51
(1,1338)	1:B:111:HIS:H	1:B:112:GLY:H	6	0.51
(1,1335)	1:B:111:HIS:H	1:B:112:GLY:H	6	0.51
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	3	0.51
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	4	0.51
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	4	0.51
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	9	0.51
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	6	0.51
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	3	0.51
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	3	0.51
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	4	0.51
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	4	0.51
(1,1187)	1:B:96:ASP:HA	1:B:124:ILE:H	3	0.51
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	2	0.51
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD2	3	0.51
(1,1141)	1:B:92:LYS:H	1:B:92:LYS:HD3	3	0.51
(1,1113)	1:B:89:LEU:H	1:B:89:LEU:HG	5	0.51
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	2	0.51
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	2	0.51
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	4	0.51
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	4	0.51
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD21	6	0.51
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD22	6	0.51
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD23	6	0.51
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD21	6	0.51
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD22	6	0.51
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD23	6	0.51
(1,1070)	1:B:84:PHE:HE1	1:B:116:ARG:H	6	0.51
(1,1070)	1:B:84:PHE:HE2	1:B:116:ARG:H	6	0.51
(1,1044)	1:B:83:HIS:HA	1:B:83:HIS:HB2	6	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1043)	1:B:83:HIS:HB3	1:B:83:HIS:HD2	3	0.51
(1,1039)	1:B:83:HIS:HA	1:B:83:HIS:HB2	6	0.51
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	8	0.51
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	4	0.5
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	4	0.5
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	4	0.5
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	8	0.5
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	8	0.5
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	8	0.5
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	9	0.5
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	9	0.5
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	9	0.5
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	7	0.5
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	7	0.5
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	7	0.5
(1,855)	1:A:149:ARG:HB2	1:A:149:ARG:H	9	0.5
(1,855)	1:A:149:ARG:HB3	1:A:149:ARG:H	9	0.5
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	5	0.5
(1,568)	1:A:119:HIS:HB3	1:A:101:HIS:HA	6	0.5
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	4	0.5
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	8	0.5
(1,565)	1:A:118:PHE:HB2	1:A:119:HIS:H	5	0.5
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	4	0.5
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	6	0.5
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	8	0.5
(1,518)	1:A:114:ILE:HG21	1:A:114:ILE:H	8	0.5
(1,518)	1:A:114:ILE:HG22	1:A:114:ILE:H	8	0.5
(1,518)	1:A:114:ILE:HG23	1:A:114:ILE:H	8	0.5
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	4	0.5
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	4	0.5
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	4	0.5
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	4	0.5
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	4	0.5
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	4	0.5
(1,488)	1:A:113:PHE:HA	1:A:113:PHE:HB2	7	0.5
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB2	5	0.5
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB3	5	0.5
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	7	0.5
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	6	0.5
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	6	0.5
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	6	0.5
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	3	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	3	0.5
(1,215)	1:A:85:SER:HB3	1:A:89:LEU:H	1	0.5
(1,198)	1:A:84:PHE:HB2	1:A:84:PHE:H	9	0.5
(1,198)	1:A:84:PHE:HB3	1:A:84:PHE:H	9	0.5
(1,196)	1:A:84:PHE:HB2	1:A:84:PHE:H	9	0.5
(1,196)	1:A:84:PHE:HB3	1:A:84:PHE:H	9	0.5
(1,1580)	1:B:133:ILE:HD11	1:B:130:PRO:HB2	2	0.5
(1,1580)	1:B:133:ILE:HD11	1:B:130:PRO:HB3	2	0.5
(1,1580)	1:B:133:ILE:HD12	1:B:130:PRO:HB2	2	0.5
(1,1580)	1:B:133:ILE:HD12	1:B:130:PRO:HB3	2	0.5
(1,1580)	1:B:133:ILE:HD13	1:B:130:PRO:HB2	2	0.5
(1,1580)	1:B:133:ILE:HD13	1:B:130:PRO:HB3	2	0.5
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	5	0.5
(1,1435)	1:B:119:HIS:HB3	1:B:101:HIS:HA	6	0.5
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	4	0.5
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	8	0.5
(1,1432)	1:B:118:PHE:HB2	1:B:119:HIS:H	5	0.5
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	4	0.5
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	8	0.5
(1,1385)	1:B:114:ILE:HG21	1:B:114:ILE:H	8	0.5
(1,1385)	1:B:114:ILE:HG22	1:B:114:ILE:H	8	0.5
(1,1385)	1:B:114:ILE:HG23	1:B:114:ILE:H	8	0.5
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	4	0.5
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	4	0.5
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	4	0.5
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	4	0.5
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	4	0.5
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	4	0.5
(1,1355)	1:B:113:PHE:HA	1:B:113:PHE:HB2	7	0.5
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB2	5	0.5
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB3	5	0.5
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	7	0.5
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	6	0.5
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	6	0.5
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	6	0.5
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	3	0.5
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	3	0.5
(1,1082)	1:B:85:SER:HB3	1:B:89:LEU:H	1	0.5
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	4	0.5
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	4	0.5
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	4	0.5
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	9	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	9	0.5
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	9	0.5
(1,1065)	1:B:84:PHE:HB2	1:B:84:PHE:H	9	0.5
(1,1065)	1:B:84:PHE:HB3	1:B:84:PHE:H	9	0.5
(1,1063)	1:B:84:PHE:HB2	1:B:84:PHE:H	9	0.5
(1,1063)	1:B:84:PHE:HB3	1:B:84:PHE:H	9	0.5
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	7	0.5
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	7	0.5
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	7	0.5
(1,950)	1:B:77:VAL:HG11	1:B:68:MET:HA	5	0.49
(1,950)	1:B:77:VAL:HG12	1:B:68:MET:HA	5	0.49
(1,950)	1:B:77:VAL:HG13	1:B:68:MET:HA	5	0.49
(1,83)	1:A:77:VAL:HG11	1:A:68:MET:HA	5	0.49
(1,83)	1:A:77:VAL:HG12	1:A:68:MET:HA	5	0.49
(1,83)	1:A:77:VAL:HG13	1:A:68:MET:HA	5	0.49
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	3	0.49
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	3	0.49
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	3	0.49
(1,686)	1:A:129:ASP:H	1:A:132:THR:HG1	7	0.49
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	2	0.49
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	1	0.49
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	2	0.49
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	5	0.49
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	7	0.49
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	9	0.49
(1,469)	1:A:111:HIS:HB2	1:A:112:GLY:H	3	0.49
(1,376)	1:A:101:HIS:HB2	1:A:101:HIS:HD2	1	0.49
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	2	0.49
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	9	0.49
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	9	0.49
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	5	0.49
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	1	0.49
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	1	0.49
(1,195)	1:A:84:PHE:HD1	1:A:84:PHE:H	2	0.49
(1,195)	1:A:84:PHE:HD2	1:A:84:PHE:H	2	0.49
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	7	0.49
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	7	0.49
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE1	3	0.49
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE2	3	0.49
(1,1722)	1:B:149:ARG:HB2	1:B:149:ARG:H	9	0.49
(1,1722)	1:B:149:ARG:HB3	1:B:149:ARG:H	9	0.49
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	3	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	3	0.49
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	3	0.49
(1,1566)	1:B:132:THR:HG1	1:B:132:THR:H	4	0.49
(1,154)	1:A:81:VAL:HG21	1:A:81:VAL:HA	1	0.49
(1,154)	1:A:81:VAL:HG22	1:A:81:VAL:HA	1	0.49
(1,154)	1:A:81:VAL:HG23	1:A:81:VAL:HA	1	0.49
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG21	4	0.49
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG22	4	0.49
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG23	4	0.49
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG21	4	0.49
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG22	4	0.49
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG23	4	0.49
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	2	0.49
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	1	0.49
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	2	0.49
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	5	0.49
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	6	0.49
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	7	0.49
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	9	0.49
(1,1336)	1:B:111:HIS:HB2	1:B:112:GLY:H	3	0.49
(1,1243)	1:B:101:HIS:HB2	1:B:101:HIS:HD2	1	0.49
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	2	0.49
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	9	0.49
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	9	0.49
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD1	8	0.49
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD2	8	0.49
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD1	8	0.49
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD2	8	0.49
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD1	8	0.49
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD2	8	0.49
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	5	0.49
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	1	0.49
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	1	0.49
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	8	0.49
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	8	0.49
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	8	0.49
(1,1062)	1:B:84:PHE:HD1	1:B:84:PHE:H	2	0.49
(1,1062)	1:B:84:PHE:HD2	1:B:84:PHE:H	2	0.49
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	7	0.49
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	7	0.49
(1,1021)	1:B:81:VAL:HG21	1:B:81:VAL:HA	1	0.49
(1,1021)	1:B:81:VAL:HG22	1:B:81:VAL:HA	1	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:B:81:VAL:HG23	1:B:81:VAL:HA	1	0.49
(1,1021)	1:B:81:VAL:HG21	1:B:81:VAL:HA	4	0.49
(1,1021)	1:B:81:VAL:HG22	1:B:81:VAL:HA	4	0.49
(1,1021)	1:B:81:VAL:HG23	1:B:81:VAL:HA	4	0.49
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD1	8	0.48
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD2	8	0.48
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD1	8	0.48
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD2	8	0.48
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD1	8	0.48
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD2	8	0.48
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE1	8	0.48
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE2	8	0.48
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE3	8	0.48
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE1	8	0.48
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE2	8	0.48
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE3	8	0.48
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE1	8	0.48
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE2	8	0.48
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE3	8	0.48
(1,875)	1:B:68:MET:HG2	1:B:68:MET:H	9	0.48
(1,875)	1:B:68:MET:HG3	1:B:68:MET:H	9	0.48
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	8	0.48
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	8	0.48
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	8	0.48
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE1	8	0.48
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE2	8	0.48
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE3	8	0.48
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE1	8	0.48
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE2	8	0.48
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE3	8	0.48
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE1	8	0.48
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE2	8	0.48
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE3	8	0.48
(1,8)	1:A:68:MET:HG2	1:A:68:MET:H	9	0.48
(1,8)	1:A:68:MET:HG3	1:A:68:MET:H	9	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD11	1	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD12	1	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD13	1	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD21	1	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD22	1	0.48
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD23	1	0.48
(1,569)	1:A:119:HIS:HA	1:A:101:HIS:HA	4	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:A:117:GLU:HA	1:A:103:LYS:HA	2	0.48
(1,543)	1:A:117:GLU:HA	1:A:103:LYS:HA	2	0.48
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	1	0.48
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	1	0.48
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	3	0.48
(1,523)	1:A:115:SER:HB3	1:A:106:GLU:H	1	0.48
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE1	7	0.48
(1,492)	1:A:113:PHE:HA	1:A:113:PHE:HE2	7	0.48
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG2	8	0.48
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG3	8	0.48
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	1	0.48
(1,244)	1:A:89:LEU:HD21	1:A:88:GLU:H	8	0.48
(1,244)	1:A:89:LEU:HD22	1:A:88:GLU:H	8	0.48
(1,244)	1:A:89:LEU:HD23	1:A:88:GLU:H	8	0.48
(1,243)	1:A:89:LEU:HD11	1:A:88:GLU:H	9	0.48
(1,243)	1:A:89:LEU:HD12	1:A:88:GLU:H	9	0.48
(1,243)	1:A:89:LEU:HD13	1:A:88:GLU:H	9	0.48
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	1	0.48
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	1	0.48
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	8	0.48
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	8	0.48
(1,192)	1:A:84:PHE:HD1	1:A:83:HIS:HB3	8	0.48
(1,192)	1:A:84:PHE:HD2	1:A:83:HIS:HB3	8	0.48
(1,185)	1:A:83:HIS:HB3	1:A:104:HIS:HB2	8	0.48
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	2	0.48
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	2	0.48
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	1	0.48
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	1	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD11	1	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD12	1	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD13	1	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD21	1	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD22	1	0.48
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD23	1	0.48
(1,157)	1:A:81:VAL:HG21	1:A:81:VAL:H	5	0.48
(1,157)	1:A:81:VAL:HG22	1:A:81:VAL:H	5	0.48
(1,157)	1:A:81:VAL:HG23	1:A:81:VAL:H	5	0.48
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	3	0.48
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	3	0.48
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	3	0.48
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	3	0.48
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	3	0.48
(1,1436)	1:B:119:HIS:HA	1:B:101:HIS:HA	4	0.48
(1,1411)	1:B:117:GLU:HA	1:B:103:LYS:HA	2	0.48
(1,1410)	1:B:117:GLU:HA	1:B:103:LYS:HA	2	0.48
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	1	0.48
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	1	0.48
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	3	0.48
(1,1397)	1:B:115:SER:HB2	1:B:115:SER:HB3	9	0.48
(1,1390)	1:B:115:SER:HB3	1:B:106:GLU:H	1	0.48
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE1	7	0.48
(1,1359)	1:B:113:PHE:HA	1:B:113:PHE:HE2	7	0.48
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	8	0.48
(1,1262)	1:B:103:LYS:HG2	1:B:103:LYS:H	4	0.48
(1,1262)	1:B:103:LYS:HG3	1:B:103:LYS:H	4	0.48
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG2	8	0.48
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG3	8	0.48
(1,1243)	1:B:101:HIS:HB2	1:B:101:HIS:HD2	7	0.48
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	1	0.48
(1,1111)	1:B:89:LEU:HD21	1:B:88:GLU:H	8	0.48
(1,1111)	1:B:89:LEU:HD22	1:B:88:GLU:H	8	0.48
(1,1111)	1:B:89:LEU:HD23	1:B:88:GLU:H	8	0.48
(1,1110)	1:B:89:LEU:HD11	1:B:88:GLU:H	9	0.48
(1,1110)	1:B:89:LEU:HD12	1:B:88:GLU:H	9	0.48
(1,1110)	1:B:89:LEU:HD13	1:B:88:GLU:H	9	0.48
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	1	0.48
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	1	0.48
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	8	0.48
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	8	0.48
(1,1059)	1:B:84:PHE:HD1	1:B:83:HIS:HB3	8	0.48
(1,1059)	1:B:84:PHE:HD2	1:B:83:HIS:HB3	8	0.48
(1,1052)	1:B:83:HIS:HB3	1:B:104:HIS:HB2	8	0.48
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	2	0.48
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	2	0.48
(1,1024)	1:B:81:VAL:HG21	1:B:81:VAL:H	5	0.48
(1,1024)	1:B:81:VAL:HG22	1:B:81:VAL:H	5	0.48
(1,1024)	1:B:81:VAL:HG23	1:B:81:VAL:H	5	0.48
(1,787)	1:A:143:LEU:H	1:A:79:LEU:H	6	0.47
(1,715)	1:A:133:ILE:HD11	1:A:130:PRO:HG2	3	0.47
(1,715)	1:A:133:ILE:HD11	1:A:130:PRO:HG3	3	0.47
(1,715)	1:A:133:ILE:HD12	1:A:130:PRO:HG2	3	0.47
(1,715)	1:A:133:ILE:HD12	1:A:130:PRO:HG3	3	0.47
(1,715)	1:A:133:ILE:HD13	1:A:130:PRO:HG2	3	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,715)	1:A:133:ILE:HD13	1:A:130:PRO:HG3	3	0.47
(1,700)	1:A:132:THR:HG21	1:A:132:THR:H	1	0.47
(1,700)	1:A:132:THR:HG22	1:A:132:THR:H	1	0.47
(1,700)	1:A:132:THR:HG23	1:A:132:THR:H	1	0.47
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	7	0.47
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	7	0.47
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	7	0.47
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	7	0.47
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	7	0.47
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	7	0.47
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	8	0.47
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG21	4	0.47
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG22	4	0.47
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG23	4	0.47
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG21	4	0.47
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG22	4	0.47
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG23	4	0.47
(1,579)	1:A:119:HIS:H	1:A:120:ARG:H	1	0.47
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	2	0.47
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	7	0.47
(1,530)	1:A:115:SER:HB2	1:A:115:SER:HB3	9	0.47
(1,488)	1:A:113:PHE:HA	1:A:113:PHE:HB2	5	0.47
(1,468)	1:A:111:HIS:H	1:A:112:GLY:H	8	0.47
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	8	0.47
(1,464)	1:A:111:HIS:H	1:A:111:HIS:HD2	2	0.47
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	2	0.47
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	4	0.47
(1,395)	1:A:103:LYS:HG2	1:A:103:LYS:H	4	0.47
(1,395)	1:A:103:LYS:HG3	1:A:103:LYS:H	4	0.47
(1,365)	1:A:100:VAL:HG11	1:A:102:GLY:H	9	0.47
(1,365)	1:A:100:VAL:HG12	1:A:102:GLY:H	9	0.47
(1,365)	1:A:100:VAL:HG13	1:A:102:GLY:H	9	0.47
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	3	0.47
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	3	0.47
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	5	0.47
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	5	0.47
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	5	0.47
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	5	0.47
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	5	0.47
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	5	0.47
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	5	0.47
(1,281)	1:A:92:LYS:H	1:A:101:HIS:H	5	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,280)	1:A:92:LYS:H	1:A:100:VAL:HA	5	0.47
(1,179)	1:A:83:HIS:HA	1:A:83:HIS:H	4	0.47
(1,177)	1:A:83:HIS:HA	1:A:83:HIS:HB2	8	0.47
(1,172)	1:A:83:HIS:HA	1:A:83:HIS:HB2	8	0.47
(1,171)	1:A:83:HIS:H	1:A:82:LYS:HG2	9	0.47
(1,171)	1:A:83:HIS:H	1:A:82:LYS:HG3	9	0.47
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	8	0.47
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	8	0.47
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	8	0.47
(1,1654)	1:B:143:LEU:H	1:B:79:LEU:H	6	0.47
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	4	0.47
(1,1582)	1:B:133:ILE:HD11	1:B:130:PRO:HG2	3	0.47
(1,1582)	1:B:133:ILE:HD11	1:B:130:PRO:HG3	3	0.47
(1,1582)	1:B:133:ILE:HD12	1:B:130:PRO:HG2	3	0.47
(1,1582)	1:B:133:ILE:HD12	1:B:130:PRO:HG3	3	0.47
(1,1582)	1:B:133:ILE:HD13	1:B:130:PRO:HG2	3	0.47
(1,1582)	1:B:133:ILE:HD13	1:B:130:PRO:HG3	3	0.47
(1,1567)	1:B:132:THR:HG21	1:B:132:THR:H	1	0.47
(1,1567)	1:B:132:THR:HG22	1:B:132:THR:H	1	0.47
(1,1567)	1:B:132:THR:HG23	1:B:132:THR:H	1	0.47
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	7	0.47
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	7	0.47
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	7	0.47
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	7	0.47
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	7	0.47
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	7	0.47
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	8	0.47
(1,1446)	1:B:119:HIS:H	1:B:120:ARG:H	1	0.47
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	2	0.47
(1,1335)	1:B:111:HIS:H	1:B:112:GLY:H	8	0.47
(1,1331)	1:B:111:HIS:H	1:B:111:HIS:HD2	2	0.47
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	2	0.47
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	4	0.47
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	3	0.47
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	3	0.47
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	5	0.47
(1,1148)	1:B:92:LYS:H	1:B:101:HIS:H	5	0.47
(1,1147)	1:B:92:LYS:H	1:B:100:VAL:HA	5	0.47
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG2	6	0.47
(1,1107)	1:B:89:LEU:H	1:B:88:GLU:HG3	6	0.47
(1,1046)	1:B:83:HIS:HA	1:B:83:HIS:H	4	0.47
(1,1044)	1:B:83:HIS:HA	1:B:83:HIS:HB2	8	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1039)	1:B:83:HIS:HA	1:B:83:HIS:HB2	8	0.47
(1,1038)	1:B:83:HIS:H	1:B:82:LYS:HG2	9	0.47
(1,1038)	1:B:83:HIS:H	1:B:82:LYS:HG3	9	0.47
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	4	0.47
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	7	0.46
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	7	0.46
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	7	0.46
(1,930)	1:B:76:SER:HB2	1:B:77:VAL:H	2	0.46
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD11	3	0.46
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD12	3	0.46
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD13	3	0.46
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD21	3	0.46
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD22	3	0.46
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD23	3	0.46
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD11	3	0.46
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD12	3	0.46
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD13	3	0.46
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD21	3	0.46
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD22	3	0.46
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD23	3	0.46
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD11	3	0.46
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD12	3	0.46
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD13	3	0.46
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD21	3	0.46
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD22	3	0.46
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD23	3	0.46
(1,866)	1:A:152:VAL:H	1:A:151:GLN:H	8	0.46
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	3	0.46
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	7	0.46
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	7	0.46
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	7	0.46
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD11	5	0.46
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD12	5	0.46
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD13	5	0.46
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD21	5	0.46
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD22	5	0.46
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD23	5	0.46
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	4	0.46
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	4	0.46
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	8	0.46
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	8	0.46
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	3	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	3	0.46
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	3	0.46
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	3	0.46
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	3	0.46
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	3	0.46
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	3	0.46
(1,63)	1:A:76:SER:HB2	1:A:77:VAL:H	2	0.46
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	4	0.46
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	4	0.46
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	4	0.46
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	4	0.46
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	4	0.46
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	4	0.46
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	6	0.46
(1,571)	1:A:119:HIS:HA	1:A:101:HIS:HD2	3	0.46
(1,509)	1:A:114:ILE:HG21	1:A:109:ASP:H	3	0.46
(1,509)	1:A:114:ILE:HG22	1:A:109:ASP:H	3	0.46
(1,509)	1:A:114:ILE:HG23	1:A:109:ASP:H	3	0.46
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	5	0.46
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	5	0.46
(1,488)	1:A:113:PHE:HA	1:A:113:PHE:HB2	2	0.46
(1,488)	1:A:113:PHE:HA	1:A:113:PHE:HB2	6	0.46
(1,430)	1:A:107:ARG:H	1:A:108:GLN:H	9	0.46
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	1	0.46
(1,376)	1:A:101:HIS:HB2	1:A:101:HIS:HD2	4	0.46
(1,346)	1:A:98:ILE:H	1:A:122:TYR:H	7	0.46
(1,345)	1:A:98:ILE:H	1:A:122:TYR:H	7	0.46
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	8	0.46
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	8	0.46
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	8	0.46
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	5	0.46
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	5	0.46
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB2	6	0.46
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB3	6	0.46
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	5	0.46
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	5	0.46
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	5	0.46
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	5	0.46
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	5	0.46
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	5	0.46
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	8	0.46
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	9	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,259)	1:A:89:LEU:HD11	1:A:103:LYS:H	9	0.46
(1,259)	1:A:89:LEU:HD12	1:A:103:LYS:H	9	0.46
(1,259)	1:A:89:LEU:HD13	1:A:103:LYS:H	9	0.46
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG2	6	0.46
(1,240)	1:A:89:LEU:H	1:A:88:GLU:HG3	6	0.46
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	3	0.46
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	3	0.46
(1,179)	1:A:83:HIS:HA	1:A:83:HIS:H	2	0.46
(1,1756)	1:A:118:PHE:HA	1:B:117:GLU:H	9	0.46
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE1	9	0.46
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE2	9	0.46
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE1	9	0.46
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE2	9	0.46
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE1	9	0.46
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE2	9	0.46
(1,1733)	1:B:152:VAL:H	1:B:151:GLN:H	8	0.46
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	3	0.46
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	7	0.46
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	7	0.46
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	7	0.46
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	6	0.46
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD11	5	0.46
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD12	5	0.46
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD13	5	0.46
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD21	5	0.46
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD22	5	0.46
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD23	5	0.46
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	4	0.46
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	4	0.46
(1,158)	1:A:81:VAL:H	1:A:81:VAL:HB	2	0.46
(1,158)	1:A:81:VAL:H	1:A:81:VAL:HB	6	0.46
(1,158)	1:A:81:VAL:H	1:A:81:VAL:HB	9	0.46
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	3	0.46
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	4	0.46
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	4	0.46
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	4	0.46
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	4	0.46
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	4	0.46
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	4	0.46
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	6	0.46
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	7	0.46
(1,1376)	1:B:114:ILE:HG21	1:B:109:ASP:H	3	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1376)	1:B:114:ILE:HG22	1:B:109:ASP:H	3	0.46
(1,1376)	1:B:114:ILE:HG23	1:B:109:ASP:H	3	0.46
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	5	0.46
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	5	0.46
(1,1355)	1:B:113:PHE:HA	1:B:113:PHE:HB2	2	0.46
(1,1355)	1:B:113:PHE:HA	1:B:113:PHE:HB2	5	0.46
(1,1355)	1:B:113:PHE:HA	1:B:113:PHE:HB2	6	0.46
(1,1297)	1:B:107:ARG:H	1:B:108:GLN:H	9	0.46
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	1	0.46
(1,1243)	1:B:101:HIS:HB2	1:B:101:HIS:HD2	4	0.46
(1,1232)	1:B:100:VAL:HG11	1:B:102:GLY:H	9	0.46
(1,1232)	1:B:100:VAL:HG12	1:B:102:GLY:H	9	0.46
(1,1232)	1:B:100:VAL:HG13	1:B:102:GLY:H	9	0.46
(1,1213)	1:B:98:ILE:H	1:B:122:TYR:H	7	0.46
(1,1212)	1:B:98:ILE:H	1:B:122:TYR:H	7	0.46
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	8	0.46
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	8	0.46
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	8	0.46
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD11	3	0.46
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD12	3	0.46
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD13	3	0.46
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD21	3	0.46
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD22	3	0.46
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD23	3	0.46
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD11	3	0.46
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD12	3	0.46
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD13	3	0.46
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD21	3	0.46
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD22	3	0.46
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD23	3	0.46
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD11	3	0.46
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD12	3	0.46
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD13	3	0.46
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD21	3	0.46
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD22	3	0.46
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD23	3	0.46
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	5	0.46
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	5	0.46
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB2	6	0.46
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB3	6	0.46
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	5	0.46
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	5	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	5	0.46
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	5	0.46
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	5	0.46
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	5	0.46
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	8	0.46
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	9	0.46
(1,1126)	1:B:89:LEU:HD11	1:B:103:LYS:H	9	0.46
(1,1126)	1:B:89:LEU:HD12	1:B:103:LYS:H	9	0.46
(1,1126)	1:B:89:LEU:HD13	1:B:103:LYS:H	9	0.46
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	7	0.46
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	7	0.46
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	7	0.46
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	3	0.46
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	3	0.46
(1,1046)	1:B:83:HIS:HA	1:B:83:HIS:H	2	0.46
(1,1025)	1:B:81:VAL:H	1:B:81:VAL:HB	2	0.46
(1,1025)	1:B:81:VAL:H	1:B:81:VAL:HB	6	0.46
(1,1025)	1:B:81:VAL:H	1:B:81:VAL:HB	9	0.46
(1,986)	1:B:77:VAL:HB	1:B:146:ASP:HB3	8	0.45
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD1	3	0.45
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD2	3	0.45
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD1	3	0.45
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD2	3	0.45
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD1	3	0.45
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD2	3	0.45
(1,929)	1:B:76:SER:HB3	1:B:76:SER:H	8	0.45
(1,870)	1:B:66:SER:HB2	1:B:66:SER:H	3	0.45
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	4	0.45
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	4	0.45
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	4	0.45
(1,812)	1:A:145:VAL:HB	1:A:135:SER:HA	3	0.45
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	2	0.45
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	2	0.45
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	2	0.45
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	3	0.45
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	3	0.45
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	3	0.45
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	3	0.45
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	3	0.45
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	3	0.45
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	6	0.45
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	2	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:A:76:SER:HB3	1:A:76:SER:H	8	0.45
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	3	0.45
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	7	0.45
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	8	0.45
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	3	0.45
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	4	0.45
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	6	0.45
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG2	7	0.45
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG3	7	0.45
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	5	0.45
(1,498)	1:A:113:PHE:HB2	1:A:113:PHE:H	9	0.45
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG21	6	0.45
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG22	6	0.45
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG23	6	0.45
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB2	2	0.45
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB3	2	0.45
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	6	0.45
(1,383)	1:A:101:HIS:HA	1:A:119:HIS:HD2	1	0.45
(1,376)	1:A:101:HIS:HB2	1:A:101:HIS:HD2	7	0.45
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	9	0.45
(1,3)	1:A:66:SER:HB2	1:A:66:SER:H	3	0.45
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	5	0.45
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	4	0.45
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	4	0.45
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	7	0.45
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	7	0.45
(1,228)	1:A:87:GLU:H	1:A:88:GLU:H	5	0.45
(1,225)	1:A:87:GLU:H	1:A:88:GLU:H	5	0.45
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	3	0.45
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	3	0.45
(1,212)	1:A:85:SER:HB2	1:A:88:GLU:H	6	0.45
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	6	0.45
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	6	0.45
(1,163)	1:A:81:VAL:HG21	1:A:83:HIS:H	1	0.45
(1,163)	1:A:81:VAL:HG22	1:A:83:HIS:H	1	0.45
(1,163)	1:A:81:VAL:HG23	1:A:83:HIS:H	1	0.45
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	2	0.45
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	2	0.45
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	8	0.45
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	8	0.45
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	2	0.45
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	3	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	3	0.45
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	3	0.45
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	3	0.45
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	3	0.45
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	3	0.45
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	6	0.45
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	2	0.45
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	2	0.45
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	2	0.45
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	2	0.45
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	3	0.45
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	7	0.45
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	8	0.45
(1,1441)	1:B:119:HIS:HB3	1:B:119:HIS:HD2	9	0.45
(1,1438)	1:B:119:HIS:HA	1:B:101:HIS:HD2	3	0.45
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	3	0.45
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	4	0.45
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	6	0.45
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG2	7	0.45
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG3	7	0.45
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	5	0.45
(1,1365)	1:B:113:PHE:HB2	1:B:113:PHE:H	9	0.45
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG21	6	0.45
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG22	6	0.45
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG23	6	0.45
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	6	0.45
(1,119)	1:A:77:VAL:HB	1:A:146:ASP:HB3	8	0.45
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	9	0.45
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	5	0.45
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	5	0.45
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	5	0.45
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	5	0.45
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	5	0.45
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	5	0.45
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD1	3	0.45
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD2	3	0.45
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD1	3	0.45
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD2	3	0.45
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD1	3	0.45
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD2	3	0.45
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	5	0.45
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	4	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	4	0.45
(1,1095)	1:B:87:GLU:H	1:B:88:GLU:H	5	0.45
(1,1092)	1:B:87:GLU:H	1:B:88:GLU:H	5	0.45
(1,1079)	1:B:85:SER:HB2	1:B:88:GLU:H	6	0.45
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	6	0.45
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	6	0.45
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	6	0.45
(1,1030)	1:B:81:VAL:HG21	1:B:83:HIS:H	1	0.45
(1,1030)	1:B:81:VAL:HG22	1:B:83:HIS:H	1	0.45
(1,1030)	1:B:81:VAL:HG23	1:B:83:HIS:H	1	0.45
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD1	4	0.44
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD2	4	0.44
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD1	4	0.44
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD2	4	0.44
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD1	4	0.44
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD2	4	0.44
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	1	0.44
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	1	0.44
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	1	0.44
(1,955)	1:B:77:VAL:HG11	1:B:76:SER:HA	5	0.44
(1,955)	1:B:77:VAL:HG12	1:B:76:SER:HA	5	0.44
(1,955)	1:B:77:VAL:HG13	1:B:76:SER:HA	5	0.44
(1,955)	1:B:77:VAL:HG11	1:B:76:SER:HA	7	0.44
(1,955)	1:B:77:VAL:HG12	1:B:76:SER:HA	7	0.44
(1,955)	1:B:77:VAL:HG13	1:B:76:SER:HA	7	0.44
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB2	2	0.44
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB3	2	0.44
(1,88)	1:A:77:VAL:HG11	1:A:76:SER:HA	7	0.44
(1,88)	1:A:77:VAL:HG12	1:A:76:SER:HA	7	0.44
(1,88)	1:A:77:VAL:HG13	1:A:76:SER:HA	7	0.44
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	8	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD11	6	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD12	6	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD13	6	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD21	6	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD22	6	0.44
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD23	6	0.44
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	1	0.44
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	2	0.44
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	3	0.44
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	1	0.44
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	1	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	8	0.44
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	8	0.44
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	8	0.44
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	8	0.44
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	8	0.44
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	8	0.44
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	1	0.44
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	3	0.44
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	3	0.44
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	3	0.44
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	3	0.44
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	3	0.44
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	3	0.44
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	2	0.44
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	2	0.44
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	2	0.44
(1,574)	1:A:119:HIS:HB3	1:A:119:HIS:HD2	5	0.44
(1,566)	1:A:118:PHE:HA	1:A:119:HIS:H	9	0.44
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	5	0.44
(1,547)	1:A:117:GLU:H	1:A:117:GLU:HG2	7	0.44
(1,547)	1:A:117:GLU:H	1:A:117:GLU:HG3	7	0.44
(1,512)	1:A:114:ILE:HD11	1:A:113:PHE:HA	3	0.44
(1,512)	1:A:114:ILE:HD12	1:A:113:PHE:HA	3	0.44
(1,512)	1:A:114:ILE:HD13	1:A:113:PHE:HA	3	0.44
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	4	0.44
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	4	0.44
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	4	0.44
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	1	0.44
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB2	7	0.44
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB3	7	0.44
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB2	7	0.44
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB3	7	0.44
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	7	0.44
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	7	0.44
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	7	0.44
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	7	0.44
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	7	0.44
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	9	0.44
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	9	0.44
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	9	0.44
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	9	0.44
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	9	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	9	0.44
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	7	0.44
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	4	0.44
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	8	0.44
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	8	0.44
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	8	0.44
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	4	0.44
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	4	0.44
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	4	0.44
(1,1679)	1:B:145:VAL:HB	1:B:135:SER:HA	3	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD11	6	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD12	6	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD13	6	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD21	6	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD22	6	0.44
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD23	6	0.44
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	1	0.44
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	3	0.44
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	1	0.44
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	1	0.44
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	6	0.44
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	6	0.44
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	6	0.44
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	1	0.44
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	3	0.44
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	3	0.44
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	3	0.44
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	3	0.44
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	3	0.44
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	3	0.44
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD11	4	0.44
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD12	4	0.44
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD13	4	0.44
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD11	4	0.44
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD12	4	0.44
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD13	4	0.44
(1,1433)	1:B:118:PHE:HA	1:B:119:HIS:H	9	0.44
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	5	0.44
(1,1414)	1:B:117:GLU:H	1:B:117:GLU:HG2	7	0.44
(1,1414)	1:B:117:GLU:H	1:B:117:GLU:HG3	7	0.44
(1,1379)	1:B:114:ILE:HD11	1:B:113:PHE:HA	3	0.44
(1,1379)	1:B:114:ILE:HD12	1:B:113:PHE:HA	3	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1379)	1:B:114:ILE:HD13	1:B:113:PHE:HA	3	0.44
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	4	0.44
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB2	2	0.44
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB3	2	0.44
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	1	0.44
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB2	7	0.44
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB3	7	0.44
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB2	7	0.44
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB3	7	0.44
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	7	0.44
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	7	0.44
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	7	0.44
(1,1199)	1:B:97:VAL:HA	1:B:124:ILE:HG12	8	0.44
(1,1199)	1:B:97:VAL:HA	1:B:124:ILE:HG13	8	0.44
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	7	0.44
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	7	0.44
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	9	0.44
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	9	0.44
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	9	0.44
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	9	0.44
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	9	0.44
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	9	0.44
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD1	4	0.44
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD2	4	0.44
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD1	4	0.44
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD2	4	0.44
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD1	4	0.44
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD2	4	0.44
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	7	0.44
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	4	0.44
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	7	0.44
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	7	0.44
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	8	0.44
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	8	0.44
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	3	0.44
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	3	0.44
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	1	0.44
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	1	0.44
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	1	0.44
(1,923)	1:B:75:PHE:HD1	1:B:148:PRO:HA	6	0.43
(1,923)	1:B:75:PHE:HD2	1:B:148:PRO:HA	6	0.43
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	8	0.43
(1,893)	1:B:71:GLU:H	1:B:76:SER:H	2	0.43
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	5	0.43
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	5	0.43
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE1	7	0.43
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE2	7	0.43
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE1	7	0.43
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE2	7	0.43
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE1	7	0.43
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE2	7	0.43
(1,88)	1:A:77:VAL:HG11	1:A:76:SER:HA	5	0.43
(1,88)	1:A:77:VAL:HG12	1:A:76:SER:HA	5	0.43
(1,88)	1:A:77:VAL:HG13	1:A:76:SER:HA	5	0.43
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	1	0.43
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	1	0.43
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	3	0.43
(1,843)	1:A:147:GLY:HA2	1:A:133:ILE:HB	7	0.43
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	4	0.43
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	6	0.43
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	7	0.43
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	8	0.43
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	9	0.43
(1,783)	1:A:142:VAL:HG11	1:A:142:VAL:H	9	0.43
(1,783)	1:A:142:VAL:HG12	1:A:142:VAL:H	9	0.43
(1,783)	1:A:142:VAL:HG13	1:A:142:VAL:H	9	0.43
(1,783)	1:A:142:VAL:HG21	1:A:142:VAL:H	9	0.43
(1,783)	1:A:142:VAL:HG22	1:A:142:VAL:H	9	0.43
(1,783)	1:A:142:VAL:HG23	1:A:142:VAL:H	9	0.43
(1,782)	1:A:142:VAL:HG11	1:A:142:VAL:H	9	0.43
(1,782)	1:A:142:VAL:HG12	1:A:142:VAL:H	9	0.43
(1,782)	1:A:142:VAL:HG13	1:A:142:VAL:H	9	0.43
(1,782)	1:A:142:VAL:HG21	1:A:142:VAL:H	9	0.43
(1,782)	1:A:142:VAL:HG22	1:A:142:VAL:H	9	0.43
(1,782)	1:A:142:VAL:HG23	1:A:142:VAL:H	9	0.43
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	6	0.43
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	6	0.43
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	6	0.43
(1,700)	1:A:132:THR:HG21	1:A:132:THR:H	7	0.43
(1,700)	1:A:132:THR:HG22	1:A:132:THR:H	7	0.43
(1,700)	1:A:132:THR:HG23	1:A:132:THR:H	7	0.43
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	6	0.43
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	6	0.43
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	6	0.43
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	6	0.43
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	6	0.43
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	8	0.43
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	8	0.43
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	2	0.43
(1,579)	1:A:119:HIS:H	1:A:120:ARG:H	6	0.43
(1,574)	1:A:119:HIS:HB3	1:A:119:HIS:HD2	9	0.43
(1,562)	1:A:118:PHE:HA	1:A:118:PHE:H	3	0.43
(1,56)	1:A:75:PHE:HD1	1:A:148:PRO:HA	6	0.43
(1,56)	1:A:75:PHE:HD2	1:A:148:PRO:HA	6	0.43
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	8	0.43
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	8	0.43
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG2	4	0.43
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG3	4	0.43
(1,358)	1:A:100:VAL:HG11	1:A:92:LYS:H	7	0.43
(1,358)	1:A:100:VAL:HG12	1:A:92:LYS:H	7	0.43
(1,358)	1:A:100:VAL:HG13	1:A:92:LYS:H	7	0.43
(1,332)	1:A:97:VAL:HA	1:A:124:ILE:HG12	8	0.43
(1,332)	1:A:97:VAL:HA	1:A:124:ILE:HG13	8	0.43
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB2	2	0.43
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB3	2	0.43
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	4	0.43
(1,26)	1:A:71:GLU:H	1:A:76:SER:H	2	0.43
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	4	0.43
(1,251)	1:A:89:LEU:HG	1:A:90:LYS:H	3	0.43
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	5	0.43
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	5	0.43
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB2	5	0.43
(1,223)	1:A:87:GLU:H	1:A:88:GLU:HB3	5	0.43
(1,193)	1:A:84:PHE:HD1	1:A:83:HIS:HA	7	0.43
(1,193)	1:A:84:PHE:HD2	1:A:83:HIS:HA	7	0.43
(1,185)	1:A:83:HIS:HB3	1:A:104:HIS:HB2	6	0.43
(1,176)	1:A:83:HIS:HB3	1:A:83:HIS:HD2	3	0.43
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	1	0.43
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	1	0.43
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	3	0.43
(1,1710)	1:B:147:GLY:HA2	1:B:133:ILE:HB	7	0.43
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	2	0.43
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	4	0.43
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	6	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	7	0.43
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	8	0.43
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	9	0.43
(1,1567)	1:B:132:THR:HG21	1:B:132:THR:H	7	0.43
(1,1567)	1:B:132:THR:HG22	1:B:132:THR:H	7	0.43
(1,1567)	1:B:132:THR:HG23	1:B:132:THR:H	7	0.43
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	4	0.43
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	4	0.43
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	4	0.43
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	8	0.43
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	8	0.43
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	8	0.43
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	8	0.43
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	8	0.43
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	8	0.43
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	6	0.43
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	6	0.43
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	6	0.43
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	6	0.43
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	6	0.43
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	6	0.43
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	8	0.43
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	8	0.43
(1,1446)	1:B:119:HIS:H	1:B:120:ARG:H	6	0.43
(1,1429)	1:B:118:PHE:HA	1:B:118:PHE:H	3	0.43
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	4	0.43
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	4	0.43
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE1	7	0.43
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE2	7	0.43
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE1	7	0.43
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE2	7	0.43
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE1	7	0.43
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE2	7	0.43
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	8	0.43
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG2	4	0.43
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG3	4	0.43
(1,1225)	1:B:100:VAL:HG11	1:B:92:LYS:H	7	0.43
(1,1225)	1:B:100:VAL:HG12	1:B:92:LYS:H	7	0.43
(1,1225)	1:B:100:VAL:HG13	1:B:92:LYS:H	7	0.43
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	4	0.43
(1,1118)	1:B:89:LEU:HG	1:B:90:LYS:H	3	0.43
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB2	5	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1090)	1:B:87:GLU:H	1:B:88:GLU:HB3	5	0.43
(1,1060)	1:B:84:PHE:HD1	1:B:83:HIS:HA	7	0.43
(1,1060)	1:B:84:PHE:HD2	1:B:83:HIS:HA	7	0.43
(1,1052)	1:B:83:HIS:HB3	1:B:104:HIS:HB2	6	0.43
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	4	0.43
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	4	0.43
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	4	0.43
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	5	0.42
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	5	0.42
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	5	0.42
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	5	0.42
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	5	0.42
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	5	0.42
(1,924)	1:B:75:PHE:H	1:B:149:ARG:H	8	0.42
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD11	9	0.42
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD12	9	0.42
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD13	9	0.42
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD21	9	0.42
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD22	9	0.42
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD23	9	0.42
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD11	9	0.42
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD12	9	0.42
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD13	9	0.42
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD21	9	0.42
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD22	9	0.42
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD23	9	0.42
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD11	9	0.42
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD12	9	0.42
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD13	9	0.42
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD21	9	0.42
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD22	9	0.42
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD23	9	0.42
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	1	0.42
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	1	0.42
(1,839)	1:A:146:ASP:HB2	1:A:147:GLY:H	4	0.42
(1,791)	1:A:143:LEU:HA	1:A:144:THR:H	5	0.42
(1,714)	1:A:133:ILE:HD11	1:A:130:PRO:HA	3	0.42
(1,714)	1:A:133:ILE:HD12	1:A:130:PRO:HA	3	0.42
(1,714)	1:A:133:ILE:HD13	1:A:130:PRO:HA	3	0.42
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	1	0.42
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	1	0.42
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	1	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	1	0.42
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	1	0.42
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	1	0.42
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	1	0.42
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	1	0.42
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	1	0.42
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	1	0.42
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	1	0.42
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	1	0.42
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	7	0.42
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	7	0.42
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	7	0.42
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	7	0.42
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	7	0.42
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	7	0.42
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	8	0.42
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	8	0.42
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	8	0.42
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	8	0.42
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	8	0.42
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	8	0.42
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD1	1	0.42
(1,618)	1:A:124:ILE:HG21	1:A:122:TYR:HD2	1	0.42
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD1	1	0.42
(1,618)	1:A:124:ILE:HG22	1:A:122:TYR:HD2	1	0.42
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD1	1	0.42
(1,618)	1:A:124:ILE:HG23	1:A:122:TYR:HD2	1	0.42
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	6	0.42
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	6	0.42
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	9	0.42
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	9	0.42
(1,573)	1:A:119:HIS:HA	1:A:119:HIS:HD2	4	0.42
(1,57)	1:A:75:PHE:H	1:A:149:ARG:H	8	0.42
(1,544)	1:A:117:GLU:HA	1:A:103:LYS:HA	9	0.42
(1,543)	1:A:117:GLU:HA	1:A:103:LYS:HA	9	0.42
(1,488)	1:A:113:PHE:HA	1:A:113:PHE:HB2	8	0.42
(1,470)	1:A:111:HIS:HA	1:A:112:GLY:H	2	0.42
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	6	0.42
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	5	0.42
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	9	0.42
(1,405)	1:A:104:HIS:HB3	1:A:104:HIS:HA	7	0.42
(1,404)	1:A:104:HIS:HB3	1:A:104:HIS:HA	7	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	1	0.42
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	1	0.42
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	1	0.42
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	1	0.42
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	1	0.42
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	1	0.42
(1,321)	1:A:97:VAL:H	1:A:93:VAL:HB	3	0.42
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	2	0.42
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB2	4	0.42
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB3	4	0.42
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	8	0.42
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	6	0.42
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	6	0.42
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	8	0.42
(1,189)	1:A:84:PHE:H	1:A:81:VAL:HB	1	0.42
(1,1767)	1:A:122:TYR:HB2	1:B:112:GLY:HA3	6	0.42
(1,1767)	1:A:122:TYR:HB3	1:B:112:GLY:HA3	6	0.42
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	1	0.42
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	1	0.42
(1,1706)	1:B:146:ASP:HB2	1:B:147:GLY:H	4	0.42
(1,1658)	1:B:143:LEU:HA	1:B:144:THR:H	5	0.42
(1,1650)	1:B:142:VAL:HG11	1:B:142:VAL:H	9	0.42
(1,1650)	1:B:142:VAL:HG12	1:B:142:VAL:H	9	0.42
(1,1650)	1:B:142:VAL:HG13	1:B:142:VAL:H	9	0.42
(1,1650)	1:B:142:VAL:HG21	1:B:142:VAL:H	9	0.42
(1,1650)	1:B:142:VAL:HG22	1:B:142:VAL:H	9	0.42
(1,1650)	1:B:142:VAL:HG23	1:B:142:VAL:H	9	0.42
(1,1649)	1:B:142:VAL:HG11	1:B:142:VAL:H	9	0.42
(1,1649)	1:B:142:VAL:HG12	1:B:142:VAL:H	9	0.42
(1,1649)	1:B:142:VAL:HG13	1:B:142:VAL:H	9	0.42
(1,1649)	1:B:142:VAL:HG21	1:B:142:VAL:H	9	0.42
(1,1649)	1:B:142:VAL:HG22	1:B:142:VAL:H	9	0.42
(1,1649)	1:B:142:VAL:HG23	1:B:142:VAL:H	9	0.42
(1,1581)	1:B:133:ILE:HD11	1:B:130:PRO:HA	3	0.42
(1,1581)	1:B:133:ILE:HD12	1:B:130:PRO:HA	3	0.42
(1,1581)	1:B:133:ILE:HD13	1:B:130:PRO:HA	3	0.42
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	1	0.42
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	1	0.42
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	1	0.42
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	1	0.42
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	1	0.42
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	1	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	1	0.42
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	1	0.42
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	1	0.42
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	1	0.42
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	1	0.42
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	1	0.42
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	7	0.42
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	7	0.42
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	7	0.42
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	7	0.42
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	7	0.42
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	7	0.42
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	8	0.42
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	8	0.42
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	8	0.42
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	8	0.42
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	8	0.42
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	8	0.42
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD1	1	0.42
(1,1485)	1:B:124:ILE:HG21	1:B:122:TYR:HD2	1	0.42
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD1	1	0.42
(1,1485)	1:B:124:ILE:HG22	1:B:122:TYR:HD2	1	0.42
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD1	1	0.42
(1,1485)	1:B:124:ILE:HG23	1:B:122:TYR:HD2	1	0.42
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	6	0.42
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	6	0.42
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	9	0.42
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	9	0.42
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	2	0.42
(1,1440)	1:B:119:HIS:HA	1:B:119:HIS:HD2	4	0.42
(1,1411)	1:B:117:GLU:HA	1:B:103:LYS:HA	9	0.42
(1,1410)	1:B:117:GLU:HA	1:B:103:LYS:HA	9	0.42
(1,1355)	1:B:113:PHE:HA	1:B:113:PHE:HB2	8	0.42
(1,1337)	1:B:111:HIS:HA	1:B:112:GLY:H	2	0.42
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	5	0.42
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	9	0.42
(1,1272)	1:B:104:HIS:HB3	1:B:104:HIS:HA	7	0.42
(1,1271)	1:B:104:HIS:HB3	1:B:104:HIS:HA	7	0.42
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	4	0.42
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	4	0.42
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	4	0.42
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD11	9	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD12	9	0.42
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD13	9	0.42
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD21	9	0.42
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD22	9	0.42
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD23	9	0.42
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD11	9	0.42
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD12	9	0.42
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD13	9	0.42
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD21	9	0.42
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD22	9	0.42
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD23	9	0.42
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD11	9	0.42
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD12	9	0.42
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD13	9	0.42
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD21	9	0.42
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD22	9	0.42
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD23	9	0.42
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	1	0.42
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	1	0.42
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	1	0.42
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	1	0.42
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	1	0.42
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	1	0.42
(1,1188)	1:B:97:VAL:H	1:B:93:VAL:HB	3	0.42
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	2	0.42
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	4	0.42
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	7	0.42
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB2	4	0.42
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB3	4	0.42
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	5	0.42
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	5	0.42
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	5	0.42
(1,1111)	1:B:89:LEU:HD21	1:B:88:GLU:H	2	0.42
(1,1111)	1:B:89:LEU:HD22	1:B:88:GLU:H	2	0.42
(1,1111)	1:B:89:LEU:HD23	1:B:88:GLU:H	2	0.42
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	8	0.42
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	6	0.42
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	6	0.42
(1,1056)	1:B:84:PHE:H	1:B:81:VAL:HB	1	0.42
(1,955)	1:B:77:VAL:HG11	1:B:76:SER:HA	1	0.41
(1,955)	1:B:77:VAL:HG12	1:B:76:SER:HA	1	0.41
(1,955)	1:B:77:VAL:HG13	1:B:76:SER:HA	1	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,955)	1:B:77:VAL:HG11	1:B:76:SER:HA	4	0.41
(1,955)	1:B:77:VAL:HG12	1:B:76:SER:HA	4	0.41
(1,955)	1:B:77:VAL:HG13	1:B:76:SER:HA	4	0.41
(1,955)	1:B:77:VAL:HG11	1:B:76:SER:HA	8	0.41
(1,955)	1:B:77:VAL:HG12	1:B:76:SER:HA	8	0.41
(1,955)	1:B:77:VAL:HG13	1:B:76:SER:HA	8	0.41
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG21	9	0.41
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG22	9	0.41
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG23	9	0.41
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	8	0.41
(1,88)	1:A:77:VAL:HG11	1:A:76:SER:HA	1	0.41
(1,88)	1:A:77:VAL:HG12	1:A:76:SER:HA	1	0.41
(1,88)	1:A:77:VAL:HG13	1:A:76:SER:HA	1	0.41
(1,88)	1:A:77:VAL:HG11	1:A:76:SER:HA	4	0.41
(1,88)	1:A:77:VAL:HG12	1:A:76:SER:HA	4	0.41
(1,88)	1:A:77:VAL:HG13	1:A:76:SER:HA	4	0.41
(1,88)	1:A:77:VAL:HG11	1:A:76:SER:HA	8	0.41
(1,88)	1:A:77:VAL:HG12	1:A:76:SER:HA	8	0.41
(1,88)	1:A:77:VAL:HG13	1:A:76:SER:HA	8	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD11	9	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD12	9	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD13	9	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD21	9	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD22	9	0.41
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD23	9	0.41
(1,783)	1:A:142:VAL:HG11	1:A:142:VAL:H	3	0.41
(1,783)	1:A:142:VAL:HG12	1:A:142:VAL:H	3	0.41
(1,783)	1:A:142:VAL:HG13	1:A:142:VAL:H	3	0.41
(1,783)	1:A:142:VAL:HG21	1:A:142:VAL:H	3	0.41
(1,783)	1:A:142:VAL:HG22	1:A:142:VAL:H	3	0.41
(1,783)	1:A:142:VAL:HG23	1:A:142:VAL:H	3	0.41
(1,782)	1:A:142:VAL:HG11	1:A:142:VAL:H	3	0.41
(1,782)	1:A:142:VAL:HG12	1:A:142:VAL:H	3	0.41
(1,782)	1:A:142:VAL:HG13	1:A:142:VAL:H	3	0.41
(1,782)	1:A:142:VAL:HG21	1:A:142:VAL:H	3	0.41
(1,782)	1:A:142:VAL:HG22	1:A:142:VAL:H	3	0.41
(1,782)	1:A:142:VAL:HG23	1:A:142:VAL:H	3	0.41
(1,724)	1:A:133:ILE:HD11	1:A:134:THR:H	2	0.41
(1,724)	1:A:133:ILE:HD12	1:A:134:THR:H	2	0.41
(1,724)	1:A:133:ILE:HD13	1:A:134:THR:H	2	0.41
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	1	0.41
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG21	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG22	9	0.41
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG23	9	0.41
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	9	0.41
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	9	0.41
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	9	0.41
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	9	0.41
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	9	0.41
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	9	0.41
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	4	0.41
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	8	0.41
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	8	0.41
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB2	1	0.41
(1,584)	1:A:121:LYS:HA	1:A:120:ARG:HB3	1	0.41
(1,548)	1:A:117:GLU:HA	1:A:118:PHE:H	7	0.41
(1,540)	1:A:116:ARG:HA	1:A:117:GLU:H	3	0.41
(1,519)	1:A:114:ILE:HB	1:A:114:ILE:H	4	0.41
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	7	0.41
(1,432)	1:A:107:ARG:HG2	1:A:108:GLN:H	1	0.41
(1,432)	1:A:107:ARG:HG3	1:A:108:GLN:H	1	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD11	9	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD12	9	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD13	9	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD21	9	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD22	9	0.41
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD23	9	0.41
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	9	0.41
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	9	0.41
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	9	0.41
(1,332)	1:A:97:VAL:HA	1:A:124:ILE:HG12	7	0.41
(1,332)	1:A:97:VAL:HA	1:A:124:ILE:HG13	7	0.41
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	6	0.41
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	6	0.41
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	6	0.41
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	6	0.41
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	6	0.41
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	6	0.41
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	7	0.41
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB2	7	0.41
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB3	7	0.41
(1,282)	1:A:93:VAL:H	1:A:92:LYS:HG2	4	0.41
(1,282)	1:A:93:VAL:H	1:A:92:LYS:HG3	4	0.41
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	8	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD21	7	0.41
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD22	7	0.41
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD23	7	0.41
(1,244)	1:A:89:LEU:HD21	1:A:88:GLU:H	2	0.41
(1,244)	1:A:89:LEU:HD22	1:A:88:GLU:H	2	0.41
(1,244)	1:A:89:LEU:HD23	1:A:88:GLU:H	2	0.41
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	2	0.41
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	2	0.41
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	9	0.41
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	9	0.41
(1,198)	1:A:84:PHE:HB2	1:A:84:PHE:H	2	0.41
(1,198)	1:A:84:PHE:HB3	1:A:84:PHE:H	2	0.41
(1,196)	1:A:84:PHE:HB2	1:A:84:PHE:H	2	0.41
(1,196)	1:A:84:PHE:HB3	1:A:84:PHE:H	2	0.41
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	6	0.41
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	6	0.41
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	4	0.41
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	4	0.41
(1,1650)	1:B:142:VAL:HG11	1:B:142:VAL:H	3	0.41
(1,1650)	1:B:142:VAL:HG12	1:B:142:VAL:H	3	0.41
(1,1650)	1:B:142:VAL:HG13	1:B:142:VAL:H	3	0.41
(1,1650)	1:B:142:VAL:HG21	1:B:142:VAL:H	3	0.41
(1,1650)	1:B:142:VAL:HG22	1:B:142:VAL:H	3	0.41
(1,1650)	1:B:142:VAL:HG23	1:B:142:VAL:H	3	0.41
(1,1649)	1:B:142:VAL:HG11	1:B:142:VAL:H	3	0.41
(1,1649)	1:B:142:VAL:HG12	1:B:142:VAL:H	3	0.41
(1,1649)	1:B:142:VAL:HG13	1:B:142:VAL:H	3	0.41
(1,1649)	1:B:142:VAL:HG21	1:B:142:VAL:H	3	0.41
(1,1649)	1:B:142:VAL:HG22	1:B:142:VAL:H	3	0.41
(1,1649)	1:B:142:VAL:HG23	1:B:142:VAL:H	3	0.41
(1,158)	1:A:81:VAL:H	1:A:81:VAL:HB	8	0.41
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	1	0.41
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	9	0.41
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	9	0.41
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	9	0.41
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	9	0.41
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	9	0.41
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	9	0.41
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	4	0.41
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	8	0.41
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	8	0.41
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB2	1	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1451)	1:B:121:LYS:HA	1:B:120:ARG:HB3	1	0.41
(1,1415)	1:B:117:GLU:HA	1:B:118:PHE:H	7	0.41
(1,1407)	1:B:116:ARG:HA	1:B:117:GLU:H	3	0.41
(1,1386)	1:B:114:ILE:HB	1:B:114:ILE:H	4	0.41
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	6	0.41
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	7	0.41
(1,1299)	1:B:107:ARG:HG2	1:B:108:GLN:H	1	0.41
(1,1299)	1:B:107:ARG:HG3	1:B:108:GLN:H	1	0.41
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	3	0.41
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	3	0.41
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	3	0.41
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	9	0.41
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	9	0.41
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	9	0.41
(1,1199)	1:B:97:VAL:HA	1:B:124:ILE:HG12	7	0.41
(1,1199)	1:B:97:VAL:HA	1:B:124:ILE:HG13	7	0.41
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	6	0.41
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	6	0.41
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	6	0.41
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	6	0.41
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	6	0.41
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	6	0.41
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB2	7	0.41
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB3	7	0.41
(1,1149)	1:B:93:VAL:H	1:B:92:LYS:HG2	4	0.41
(1,1149)	1:B:93:VAL:H	1:B:92:LYS:HG3	4	0.41
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	8	0.41
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD21	7	0.41
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD22	7	0.41
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD23	7	0.41
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	2	0.41
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	2	0.41
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	9	0.41
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	9	0.41
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	5	0.41
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	5	0.41
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	5	0.41
(1,1065)	1:B:84:PHE:HB2	1:B:84:PHE:H	2	0.41
(1,1065)	1:B:84:PHE:HB3	1:B:84:PHE:H	2	0.41
(1,1063)	1:B:84:PHE:HB2	1:B:84:PHE:H	2	0.41
(1,1063)	1:B:84:PHE:HB3	1:B:84:PHE:H	2	0.41
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	6	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	6	0.41
(1,1025)	1:B:81:VAL:H	1:B:81:VAL:HB	8	0.41
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG21	6	0.4
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG22	6	0.4
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG23	6	0.4
(1,929)	1:B:76:SER:HB3	1:B:76:SER:H	4	0.4
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG2	8	0.4
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG3	8	0.4
(1,840)	1:A:146:ASP:HA	1:A:147:GLY:H	4	0.4
(1,811)	1:A:145:VAL:HB	1:A:77:VAL:HB	8	0.4
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD11	3	0.4
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD12	3	0.4
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD13	3	0.4
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD21	3	0.4
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD22	3	0.4
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD23	3	0.4
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	6	0.4
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	6	0.4
(1,633)	1:A:124:ILE:HA	1:A:124:ILE:H	4	0.4
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	5	0.4
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	5	0.4
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	5	0.4
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	5	0.4
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	5	0.4
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	5	0.4
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	5	0.4
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	5	0.4
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	5	0.4
(1,62)	1:A:76:SER:HB3	1:A:76:SER:H	4	0.4
(1,574)	1:A:119:HIS:HB3	1:A:119:HIS:HD2	2	0.4
(1,573)	1:A:119:HIS:HA	1:A:119:HIS:HD2	7	0.4
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG2	8	0.4
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG3	8	0.4
(1,524)	1:A:115:SER:HB2	1:A:106:GLU:H	2	0.4
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	8	0.4
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	8	0.4
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	6	0.4
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	9	0.4
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG2	2	0.4
(1,393)	1:A:103:LYS:H	1:A:88:GLU:HG3	2	0.4
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	7	0.4
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG21	8	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG22	8	0.4
(1,352)	1:A:99:GLU:HB2	1:A:100:VAL:HG23	8	0.4
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG21	8	0.4
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG22	8	0.4
(1,352)	1:A:99:GLU:HB3	1:A:100:VAL:HG23	8	0.4
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	3	0.4
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	3	0.4
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	3	0.4
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	2	0.4
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	2	0.4
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	3	0.4
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	4	0.4
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG2	8	0.4
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG3	8	0.4
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	1	0.4
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	8	0.4
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	8	0.4
(1,216)	1:A:85:SER:HB2	1:A:89:LEU:H	3	0.4
(1,215)	1:A:85:SER:HB3	1:A:89:LEU:H	3	0.4
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	7	0.4
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	7	0.4
(1,184)	1:A:83:HIS:H	1:A:84:PHE:H	8	0.4
(1,183)	1:A:83:HIS:H	1:A:84:PHE:H	8	0.4
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	7	0.4
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	7	0.4
(1,1751)	1:A:118:PHE:HD1	1:B:114:ILE:HG21	5	0.4
(1,1751)	1:A:118:PHE:HD1	1:B:114:ILE:HG22	5	0.4
(1,1751)	1:A:118:PHE:HD1	1:B:114:ILE:HG23	5	0.4
(1,1751)	1:A:118:PHE:HD2	1:B:114:ILE:HG21	5	0.4
(1,1751)	1:A:118:PHE:HD2	1:B:114:ILE:HG22	5	0.4
(1,1751)	1:A:118:PHE:HD2	1:B:114:ILE:HG23	5	0.4
(1,1707)	1:B:146:ASP:HA	1:B:147:GLY:H	4	0.4
(1,1678)	1:B:145:VAL:HB	1:B:77:VAL:HB	8	0.4
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD11	3	0.4
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD12	3	0.4
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD13	3	0.4
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD21	3	0.4
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD22	3	0.4
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD23	3	0.4
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	6	0.4
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	6	0.4
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	4	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	4	0.4
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	4	0.4
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	4	0.4
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	4	0.4
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	4	0.4
(1,1500)	1:B:124:ILE:HA	1:B:124:ILE:H	4	0.4
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	5	0.4
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	5	0.4
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	5	0.4
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	5	0.4
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	5	0.4
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	5	0.4
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	5	0.4
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	5	0.4
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	5	0.4
(1,1441)	1:B:119:HIS:HB3	1:B:119:HIS:HD2	2	0.4
(1,1441)	1:B:119:HIS:HB3	1:B:119:HIS:HD2	5	0.4
(1,1440)	1:B:119:HIS:HA	1:B:119:HIS:HD2	7	0.4
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG2	8	0.4
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG3	8	0.4
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	8	0.4
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	8	0.4
(1,1250)	1:B:101:HIS:HA	1:B:119:HIS:HD2	3	0.4
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	7	0.4
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG21	8	0.4
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG22	8	0.4
(1,1219)	1:B:99:GLU:HB2	1:B:100:VAL:HG23	8	0.4
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG21	8	0.4
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG22	8	0.4
(1,1219)	1:B:99:GLU:HB3	1:B:100:VAL:HG23	8	0.4
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	2	0.4
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	2	0.4
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	3	0.4
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	4	0.4
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG21	6	0.4
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG22	6	0.4
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG23	6	0.4
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	1	0.4
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	8	0.4
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	8	0.4
(1,1083)	1:B:85:SER:HB2	1:B:89:LEU:H	3	0.4
(1,1082)	1:B:85:SER:HB3	1:B:89:LEU:H	3	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	7	0.4
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	7	0.4
(1,1051)	1:B:83:HIS:H	1:B:84:PHE:H	8	0.4
(1,1050)	1:B:83:HIS:H	1:B:84:PHE:H	8	0.4
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	9	0.4
(1,986)	1:B:77:VAL:HB	1:B:146:ASP:HB3	7	0.39
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	9	0.39
(1,897)	1:B:72:LYS:H	1:B:72:LYS:HG2	3	0.39
(1,897)	1:B:72:LYS:H	1:B:72:LYS:HG3	3	0.39
(1,889)	1:B:70:LEU:HB3	1:B:74:ARG:H	2	0.39
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	2	0.39
(1,708)	1:A:132:THR:H	1:A:133:ILE:H	6	0.39
(1,706)	1:A:132:THR:H	1:A:133:ILE:H	6	0.39
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	4	0.39
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	9	0.39
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	4	0.39
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	4	0.39
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	4	0.39
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	5	0.39
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	5	0.39
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	5	0.39
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	4	0.39
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	4	0.39
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	4	0.39
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	4	0.39
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	4	0.39
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	4	0.39
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG12	2	0.39
(1,629)	1:A:124:ILE:HG21	1:A:124:ILE:HG13	2	0.39
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG12	2	0.39
(1,629)	1:A:124:ILE:HG22	1:A:124:ILE:HG13	2	0.39
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG12	2	0.39
(1,629)	1:A:124:ILE:HG23	1:A:124:ILE:HG13	2	0.39
(1,615)	1:A:124:ILE:HB	1:A:97:VAL:HA	9	0.39
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	1	0.39
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	1	0.39
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	2	0.39
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	2	0.39
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	2	0.39
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	8	0.39
(1,552)	1:A:118:PHE:HE1	1:A:103:LYS:H	6	0.39
(1,552)	1:A:118:PHE:HE2	1:A:103:LYS:H	6	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,535)	1:A:116:ARG:H	1:A:104:HIS:H	1	0.39
(1,534)	1:A:116:ARG:H	1:A:104:HIS:H	1	0.39
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB2	8	0.39
(1,503)	1:A:114:ILE:HD11	1:A:106:GLU:HB3	8	0.39
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB2	8	0.39
(1,503)	1:A:114:ILE:HD12	1:A:106:GLU:HB3	8	0.39
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB2	8	0.39
(1,503)	1:A:114:ILE:HD13	1:A:106:GLU:HB3	8	0.39
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	6	0.39
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	6	0.39
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD1	3	0.39
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD2	3	0.39
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	3	0.39
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	3	0.39
(1,468)	1:A:111:HIS:H	1:A:112:GLY:H	2	0.39
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB2	6	0.39
(1,453)	1:A:110:GLU:H	1:A:109:ASP:HB3	6	0.39
(1,432)	1:A:107:ARG:HG2	1:A:108:GLN:H	6	0.39
(1,432)	1:A:107:ARG:HG3	1:A:108:GLN:H	6	0.39
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	1	0.39
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	1	0.39
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	3	0.39
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	3	0.39
(1,379)	1:A:101:HIS:HB2	1:A:101:HIS:H	9	0.39
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	5	0.39
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB2	9	0.39
(1,300)	1:A:95:GLY:HA3	1:A:94:LEU:HB3	9	0.39
(1,30)	1:A:72:LYS:H	1:A:72:LYS:HG2	3	0.39
(1,30)	1:A:72:LYS:H	1:A:72:LYS:HG3	3	0.39
(1,279)	1:A:92:LYS:H	1:A:99:GLU:H	9	0.39
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	6	0.39
(1,22)	1:A:70:LEU:HB3	1:A:74:ARG:H	2	0.39
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	6	0.39
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	6	0.39
(1,1762)	1:A:122:TYR:HB2	1:B:111:HIS:H	8	0.39
(1,1762)	1:A:122:TYR:HB3	1:B:111:HIS:H	8	0.39
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	2	0.39
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	3	0.39
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	3	0.39
(1,1591)	1:B:133:ILE:HD11	1:B:134:THR:H	2	0.39
(1,1591)	1:B:133:ILE:HD12	1:B:134:THR:H	2	0.39
(1,1591)	1:B:133:ILE:HD13	1:B:134:THR:H	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	2	0.39
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	2	0.39
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	2	0.39
(1,1575)	1:B:132:THR:H	1:B:133:ILE:H	6	0.39
(1,1573)	1:B:132:THR:H	1:B:133:ILE:H	6	0.39
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	9	0.39
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	4	0.39
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	4	0.39
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	4	0.39
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG12	2	0.39
(1,1496)	1:B:124:ILE:HG21	1:B:124:ILE:HG13	2	0.39
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG12	2	0.39
(1,1496)	1:B:124:ILE:HG22	1:B:124:ILE:HG13	2	0.39
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG12	2	0.39
(1,1496)	1:B:124:ILE:HG23	1:B:124:ILE:HG13	2	0.39
(1,1482)	1:B:124:ILE:HB	1:B:97:VAL:HA	9	0.39
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	1	0.39
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	1	0.39
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	2	0.39
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	2	0.39
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	2	0.39
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	8	0.39
(1,1441)	1:B:119:HIS:HB3	1:B:119:HIS:HD2	3	0.39
(1,1419)	1:B:118:PHE:HE1	1:B:103:LYS:H	6	0.39
(1,1419)	1:B:118:PHE:HE2	1:B:103:LYS:H	6	0.39
(1,1402)	1:B:116:ARG:H	1:B:104:HIS:H	1	0.39
(1,1401)	1:B:116:ARG:H	1:B:104:HIS:H	1	0.39
(1,1391)	1:B:115:SER:HB2	1:B:106:GLU:H	2	0.39
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	6	0.39
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	6	0.39
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD1	3	0.39
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD2	3	0.39
(1,1335)	1:B:111:HIS:H	1:B:112:GLY:H	2	0.39
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB2	6	0.39
(1,1320)	1:B:110:GLU:H	1:B:109:ASP:HB3	6	0.39
(1,1299)	1:B:107:ARG:HG2	1:B:108:GLN:H	6	0.39
(1,1299)	1:B:107:ARG:HG3	1:B:108:GLN:H	6	0.39
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	1	0.39
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	1	0.39
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	3	0.39
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	3	0.39
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG2	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1260)	1:B:103:LYS:H	1:B:88:GLU:HG3	2	0.39
(1,1246)	1:B:101:HIS:HB2	1:B:101:HIS:H	9	0.39
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	5	0.39
(1,119)	1:A:77:VAL:HB	1:A:146:ASP:HB3	7	0.39
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB2	9	0.39
(1,1167)	1:B:95:GLY:HA3	1:B:94:LEU:HB3	9	0.39
(1,1146)	1:B:92:LYS:H	1:B:99:GLU:H	9	0.39
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	6	0.39
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	6	0.39
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	6	0.39
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	3	0.38
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	3	0.38
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	3	0.38
(1,930)	1:B:76:SER:HB2	1:B:77:VAL:H	5	0.38
(1,929)	1:B:76:SER:HB3	1:B:76:SER:H	3	0.38
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	1	0.38
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	3	0.38
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	4	0.38
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	5	0.38
(1,866)	1:A:152:VAL:H	1:A:151:GLN:H	6	0.38
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD11	2	0.38
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD12	2	0.38
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD13	2	0.38
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD21	2	0.38
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD22	2	0.38
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD23	2	0.38
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	3	0.38
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	3	0.38
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	2	0.38
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	2	0.38
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	2	0.38
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	4	0.38
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	4	0.38
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	4	0.38
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	1	0.38
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	1	0.38
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	2	0.38
(1,63)	1:A:76:SER:HB2	1:A:77:VAL:H	5	0.38
(1,62)	1:A:76:SER:HB3	1:A:76:SER:H	3	0.38
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	3	0.38
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	9	0.38
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,574)	1:A:119:HIS:HB3	1:A:119:HIS:HD2	1	0.38
(1,574)	1:A:119:HIS:HB3	1:A:119:HIS:HD2	6	0.38
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	6	0.38
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	6	0.38
(1,468)	1:A:111:HIS:H	1:A:112:GLY:H	4	0.38
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	1	0.38
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	3	0.38
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	4	0.38
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	5	0.38
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	8	0.38
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	5	0.38
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	5	0.38
(1,434)	1:A:107:ARG:HD3	1:A:109:ASP:H	3	0.38
(1,432)	1:A:107:ARG:HG2	1:A:108:GLN:H	8	0.38
(1,432)	1:A:107:ARG:HG3	1:A:108:GLN:H	8	0.38
(1,395)	1:A:103:LYS:HG2	1:A:103:LYS:H	5	0.38
(1,395)	1:A:103:LYS:HG3	1:A:103:LYS:H	5	0.38
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	1	0.38
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	6	0.38
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB2	8	0.38
(1,323)	1:A:97:VAL:HB	1:A:94:LEU:HB3	8	0.38
(1,309)	1:A:96:ASP:H	1:A:95:GLY:H	3	0.38
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	5	0.38
(1,289)	1:A:94:LEU:H	1:A:93:VAL:HB	8	0.38
(1,1739)	1:A:111:HIS:HA	1:B:122:TYR:HE1	6	0.38
(1,1739)	1:A:111:HIS:HA	1:B:122:TYR:HE2	6	0.38
(1,1733)	1:B:152:VAL:H	1:B:151:GLN:H	6	0.38
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	4	0.38
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	4	0.38
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	4	0.38
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	4	0.38
(1,155)	1:A:81:VAL:HG11	1:A:81:VAL:HA	7	0.38
(1,155)	1:A:81:VAL:HG12	1:A:81:VAL:HA	7	0.38
(1,155)	1:A:81:VAL:HG13	1:A:81:VAL:HA	7	0.38
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	1	0.38
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	1	0.38
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	4	0.38
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	2	0.38
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	5	0.38
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	5	0.38
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	5	0.38
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	9	0.38
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	3	0.38
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	3	0.38
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	6	0.38
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	3	0.38
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	6	0.38
(1,1335)	1:B:111:HIS:H	1:B:112:GLY:H	4	0.38
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	8	0.38
(1,1301)	1:B:107:ARG:HD3	1:B:109:ASP:H	3	0.38
(1,1299)	1:B:107:ARG:HG2	1:B:108:GLN:H	8	0.38
(1,1299)	1:B:107:ARG:HG3	1:B:108:GLN:H	8	0.38
(1,1262)	1:B:103:LYS:HG2	1:B:103:LYS:H	5	0.38
(1,1262)	1:B:103:LYS:HG3	1:B:103:LYS:H	5	0.38
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	1	0.38
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB2	8	0.38
(1,1190)	1:B:97:VAL:HB	1:B:94:LEU:HB3	8	0.38
(1,1176)	1:B:96:ASP:H	1:B:95:GLY:H	3	0.38
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	5	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	4	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	4	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	4	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	4	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	4	0.38
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	4	0.38
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	3	0.38
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	3	0.38
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	3	0.38
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	4	0.38
(1,1022)	1:B:81:VAL:HG11	1:B:81:VAL:HA	7	0.38
(1,1022)	1:B:81:VAL:HG12	1:B:81:VAL:HA	7	0.38
(1,1022)	1:B:81:VAL:HG13	1:B:81:VAL:HA	7	0.38
(1,985)	1:B:77:VAL:HB	1:B:146:ASP:HB2	1	0.37
(1,97)	1:A:77:VAL:HG21	1:A:77:VAL:H	2	0.37
(1,97)	1:A:77:VAL:HG22	1:A:77:VAL:H	2	0.37
(1,97)	1:A:77:VAL:HG23	1:A:77:VAL:H	2	0.37
(1,964)	1:B:77:VAL:HG21	1:B:77:VAL:H	2	0.37
(1,964)	1:B:77:VAL:HG22	1:B:77:VAL:H	2	0.37
(1,964)	1:B:77:VAL:HG23	1:B:77:VAL:H	2	0.37
(1,955)	1:B:77:VAL:HG11	1:B:76:SER:HA	3	0.37
(1,955)	1:B:77:VAL:HG12	1:B:76:SER:HA	3	0.37
(1,955)	1:B:77:VAL:HG13	1:B:76:SER:HA	3	0.37
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,881)	1:B:68:MET:HE1	1:B:122:TYR:HD1	2	0.37
(1,881)	1:B:68:MET:HE1	1:B:122:TYR:HD2	2	0.37
(1,881)	1:B:68:MET:HE2	1:B:122:TYR:HD1	2	0.37
(1,881)	1:B:68:MET:HE2	1:B:122:TYR:HD2	2	0.37
(1,881)	1:B:68:MET:HE3	1:B:122:TYR:HD1	2	0.37
(1,881)	1:B:68:MET:HE3	1:B:122:TYR:HD2	2	0.37
(1,88)	1:A:77:VAL:HG11	1:A:76:SER:HA	3	0.37
(1,88)	1:A:77:VAL:HG12	1:A:76:SER:HA	3	0.37
(1,88)	1:A:77:VAL:HG13	1:A:76:SER:HA	3	0.37
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD11	4	0.37
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD12	4	0.37
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD13	4	0.37
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD21	4	0.37
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD22	4	0.37
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD23	4	0.37
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD11	4	0.37
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD12	4	0.37
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD13	4	0.37
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD21	4	0.37
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD22	4	0.37
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD23	4	0.37
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD11	4	0.37
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD12	4	0.37
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD13	4	0.37
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD21	4	0.37
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD22	4	0.37
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD23	4	0.37
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	3	0.37
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	4	0.37
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	7	0.37
(1,744)	1:A:135:SER:HB3	1:A:146:ASP:H	4	0.37
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	3	0.37
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	2	0.37
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	2	0.37
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	2	0.37
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	9	0.37
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	9	0.37
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	9	0.37
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	1	0.37
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	1	0.37
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	1	0.37
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD2	3	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD3	3	0.37
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	1	0.37
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	1	0.37
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	1	0.37
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	1	0.37
(1,586)	1:A:121:LYS:HA	1:A:122:TYR:H	5	0.37
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	5	0.37
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	5	0.37
(1,569)	1:A:119:HIS:HA	1:A:101:HIS:HA	7	0.37
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG2	2	0.37
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG3	2	0.37
(1,518)	1:A:114:ILE:HG21	1:A:114:ILE:H	9	0.37
(1,518)	1:A:114:ILE:HG22	1:A:114:ILE:H	9	0.37
(1,518)	1:A:114:ILE:HG23	1:A:114:ILE:H	9	0.37
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	1	0.37
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	1	0.37
(1,470)	1:A:111:HIS:HA	1:A:112:GLY:H	4	0.37
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	9	0.37
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	7	0.37
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD2	2	0.37
(1,394)	1:A:103:LYS:HA	1:A:103:LYS:HD3	2	0.37
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	1	0.37
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	1	0.37
(1,308)	1:A:96:ASP:H	1:A:95:GLY:H	3	0.37
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	6	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	4	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	4	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	4	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	4	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	4	0.37
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	4	0.37
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	3	0.37
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG2	5	0.37
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG3	5	0.37
(1,228)	1:A:87:GLU:H	1:A:88:GLU:H	9	0.37
(1,225)	1:A:87:GLU:H	1:A:88:GLU:H	9	0.37
(1,191)	1:A:84:PHE:HD1	1:A:82:LYS:H	7	0.37
(1,191)	1:A:84:PHE:HD2	1:A:82:LYS:H	7	0.37
(1,188)	1:A:83:HIS:H	1:A:141:GLY:HA2	2	0.37
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	3	0.37
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	4	0.37
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	7	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD11	2	0.37
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD12	2	0.37
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD13	2	0.37
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD21	2	0.37
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD22	2	0.37
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD23	2	0.37
(1,1611)	1:B:135:SER:HB3	1:B:146:ASP:H	4	0.37
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	3	0.37
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	2	0.37
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	2	0.37
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	2	0.37
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	9	0.37
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	9	0.37
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	9	0.37
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	1	0.37
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	1	0.37
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	1	0.37
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD2	3	0.37
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD3	3	0.37
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	1	0.37
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	1	0.37
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	1	0.37
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	1	0.37
(1,1453)	1:B:121:LYS:HA	1:B:122:TYR:H	5	0.37
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	5	0.37
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	5	0.37
(1,1440)	1:B:119:HIS:HA	1:B:119:HIS:HD2	9	0.37
(1,1436)	1:B:119:HIS:HA	1:B:101:HIS:HA	7	0.37
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG2	2	0.37
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG3	2	0.37
(1,1385)	1:B:114:ILE:HG21	1:B:114:ILE:H	9	0.37
(1,1385)	1:B:114:ILE:HG22	1:B:114:ILE:H	9	0.37
(1,1385)	1:B:114:ILE:HG23	1:B:114:ILE:H	9	0.37
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB2	8	0.37
(1,1370)	1:B:114:ILE:HD11	1:B:106:GLU:HB3	8	0.37
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB2	8	0.37
(1,1370)	1:B:114:ILE:HD12	1:B:106:GLU:HB3	8	0.37
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB2	8	0.37
(1,1370)	1:B:114:ILE:HD13	1:B:106:GLU:HB3	8	0.37
(1,137)	1:A:79:LEU:HA	1:A:79:LEU:HG	5	0.37
(1,137)	1:A:79:LEU:HA	1:A:79:LEU:HG	9	0.37
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	1	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	1	0.37
(1,1337)	1:B:111:HIS:HA	1:B:112:GLY:H	4	0.37
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	9	0.37
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	5	0.37
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	5	0.37
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD2	2	0.37
(1,1261)	1:B:103:LYS:HA	1:B:103:LYS:HD3	2	0.37
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	6	0.37
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD11	4	0.37
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD12	4	0.37
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD13	4	0.37
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD21	4	0.37
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD22	4	0.37
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD23	4	0.37
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD11	4	0.37
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD12	4	0.37
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD13	4	0.37
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD21	4	0.37
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD22	4	0.37
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD23	4	0.37
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD11	4	0.37
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD12	4	0.37
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD13	4	0.37
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD21	4	0.37
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD22	4	0.37
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD23	4	0.37
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	1	0.37
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	1	0.37
(1,118)	1:A:77:VAL:HB	1:A:146:ASP:HB2	1	0.37
(1,1175)	1:B:96:ASP:H	1:B:95:GLY:H	3	0.37
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	6	0.37
(1,1156)	1:B:94:LEU:H	1:B:93:VAL:HB	8	0.37
(1,1138)	1:B:91:VAL:HB	1:B:92:LYS:H	4	0.37
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	3	0.37
(1,1058)	1:B:84:PHE:HD1	1:B:82:LYS:H	7	0.37
(1,1058)	1:B:84:PHE:HD2	1:B:82:LYS:H	7	0.37
(1,1004)	1:B:79:LEU:HA	1:B:79:LEU:HG	5	0.37
(1,1004)	1:B:79:LEU:HA	1:B:79:LEU:HG	9	0.37
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	6	0.36
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	1	0.36
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	1	0.36
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG11	7	0.36
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG12	7	0.36
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG13	7	0.36
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG11	7	0.36
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG12	7	0.36
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG13	7	0.36
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG11	7	0.36
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG12	7	0.36
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG13	7	0.36
(1,955)	1:B:77:VAL:HG11	1:B:76:SER:HA	2	0.36
(1,955)	1:B:77:VAL:HG12	1:B:76:SER:HA	2	0.36
(1,955)	1:B:77:VAL:HG13	1:B:76:SER:HA	2	0.36
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG2	5	0.36
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG3	5	0.36
(1,88)	1:A:77:VAL:HG11	1:A:76:SER:HA	2	0.36
(1,88)	1:A:77:VAL:HG12	1:A:76:SER:HA	2	0.36
(1,88)	1:A:77:VAL:HG13	1:A:76:SER:HA	2	0.36
(1,848)	1:A:147:GLY:HA3	1:A:147:GLY:H	4	0.36
(1,844)	1:A:147:GLY:HA3	1:A:133:ILE:HB	8	0.36
(1,827)	1:A:146:ASP:HB3	1:A:76:SER:HA	8	0.36
(1,826)	1:A:146:ASP:HB3	1:A:76:SER:HA	8	0.36
(1,819)	1:A:145:VAL:HG21	1:A:145:VAL:H	9	0.36
(1,819)	1:A:145:VAL:HG22	1:A:145:VAL:H	9	0.36
(1,819)	1:A:145:VAL:HG23	1:A:145:VAL:H	9	0.36
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	5	0.36
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	9	0.36
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	1	0.36
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	1	0.36
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	1	0.36
(1,605)	1:A:123:ARG:HD2	1:A:98:ILE:H	9	0.36
(1,605)	1:A:123:ARG:HD3	1:A:98:ILE:H	9	0.36
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	3	0.36
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	3	0.36
(1,544)	1:A:117:GLU:HA	1:A:103:LYS:HA	4	0.36
(1,543)	1:A:117:GLU:HA	1:A:103:LYS:HA	4	0.36
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	2	0.36
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	9	0.36
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	2	0.36
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	9	0.36
(1,470)	1:A:111:HIS:HA	1:A:112:GLY:H	8	0.36
(1,392)	1:A:102:GLY:H	1:A:118:PHE:H	2	0.36
(1,354)	1:A:99:GLU:HA	1:A:100:VAL:H	4	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	9	0.36
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	2	0.36
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	2	0.36
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	7	0.36
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	7	0.36
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	7	0.36
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	7	0.36
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	7	0.36
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	7	0.36
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	7	0.36
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	7	0.36
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	7	0.36
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	7	0.36
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	7	0.36
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	7	0.36
(1,271)	1:A:91:VAL:HB	1:A:92:LYS:H	4	0.36
(1,251)	1:A:89:LEU:HG	1:A:90:LYS:H	5	0.36
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD21	9	0.36
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD22	9	0.36
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD23	9	0.36
(1,238)	1:A:89:LEU:HD11	1:A:85:SER:H	3	0.36
(1,238)	1:A:89:LEU:HD12	1:A:85:SER:H	3	0.36
(1,238)	1:A:89:LEU:HD13	1:A:85:SER:H	3	0.36
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	3	0.36
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	3	0.36
(1,212)	1:A:85:SER:HB2	1:A:88:GLU:H	7	0.36
(1,212)	1:A:85:SER:HB2	1:A:88:GLU:H	8	0.36
(1,200)	1:A:84:PHE:HD1	1:A:85:SER:H	5	0.36
(1,200)	1:A:84:PHE:HD2	1:A:85:SER:H	5	0.36
(1,1715)	1:B:147:GLY:HA3	1:B:147:GLY:H	4	0.36
(1,1711)	1:B:147:GLY:HA3	1:B:133:ILE:HB	8	0.36
(1,1694)	1:B:146:ASP:HB3	1:B:76:SER:HA	8	0.36
(1,1693)	1:B:146:ASP:HB3	1:B:76:SER:HA	8	0.36
(1,1686)	1:B:145:VAL:HG21	1:B:145:VAL:H	9	0.36
(1,1686)	1:B:145:VAL:HG22	1:B:145:VAL:H	9	0.36
(1,1686)	1:B:145:VAL:HG23	1:B:145:VAL:H	9	0.36
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	5	0.36
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	8	0.36
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	9	0.36
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	7	0.36
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	7	0.36
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	7	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	7	0.36
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	7	0.36
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	7	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	1	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	1	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	1	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	6	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	6	0.36
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	6	0.36
(1,1472)	1:B:123:ARG:HD2	1:B:98:ILE:H	9	0.36
(1,1472)	1:B:123:ARG:HD3	1:B:98:ILE:H	9	0.36
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	3	0.36
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	3	0.36
(1,1411)	1:B:117:GLU:HA	1:B:103:LYS:HA	4	0.36
(1,1410)	1:B:117:GLU:HA	1:B:103:LYS:HA	4	0.36
(1,14)	1:A:68:MET:HE1	1:A:122:TYR:HD1	2	0.36
(1,14)	1:A:68:MET:HE1	1:A:122:TYR:HD2	2	0.36
(1,14)	1:A:68:MET:HE2	1:A:122:TYR:HD1	2	0.36
(1,14)	1:A:68:MET:HE2	1:A:122:TYR:HD2	2	0.36
(1,14)	1:A:68:MET:HE3	1:A:122:TYR:HD1	2	0.36
(1,14)	1:A:68:MET:HE3	1:A:122:TYR:HD2	2	0.36
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	9	0.36
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	9	0.36
(1,1337)	1:B:111:HIS:HA	1:B:112:GLY:H	8	0.36
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	6	0.36
(1,1259)	1:B:102:GLY:H	1:B:118:PHE:H	2	0.36
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	9	0.36
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	2	0.36
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	2	0.36
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	7	0.36
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	7	0.36
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	7	0.36
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	7	0.36
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	7	0.36
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	7	0.36
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	7	0.36
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	7	0.36
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	7	0.36
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	7	0.36
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	7	0.36
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	7	0.36
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	9	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	9	0.36
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	9	0.36
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	9	0.36
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	9	0.36
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	9	0.36
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	1	0.36
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	1	0.36
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	1	0.36
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG11	7	0.36
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG12	7	0.36
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG13	7	0.36
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG11	7	0.36
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG12	7	0.36
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG13	7	0.36
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG11	7	0.36
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG12	7	0.36
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG13	7	0.36
(1,1118)	1:B:89:LEU:HG	1:B:90:LYS:H	5	0.36
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD21	9	0.36
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD22	9	0.36
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD23	9	0.36
(1,1105)	1:B:89:LEU:HD11	1:B:85:SER:H	3	0.36
(1,1105)	1:B:89:LEU:HD12	1:B:85:SER:H	3	0.36
(1,1105)	1:B:89:LEU:HD13	1:B:85:SER:H	3	0.36
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	3	0.36
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	3	0.36
(1,1095)	1:B:87:GLU:H	1:B:88:GLU:H	9	0.36
(1,1092)	1:B:87:GLU:H	1:B:88:GLU:H	9	0.36
(1,1079)	1:B:85:SER:HB2	1:B:88:GLU:H	7	0.36
(1,1079)	1:B:85:SER:HB2	1:B:88:GLU:H	8	0.36
(1,1067)	1:B:84:PHE:HD1	1:B:85:SER:H	5	0.36
(1,1067)	1:B:84:PHE:HD2	1:B:85:SER:H	5	0.36
(1,1055)	1:B:83:HIS:H	1:B:141:GLY:HA2	2	0.36
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	3	0.35
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	5	0.35
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	9	0.35
(1,967)	1:B:77:VAL:HG11	1:B:78:ASN:HB2	6	0.35
(1,967)	1:B:77:VAL:HG12	1:B:78:ASN:HB2	6	0.35
(1,967)	1:B:77:VAL:HG13	1:B:78:ASN:HB2	6	0.35
(1,945)	1:B:76:SER:HA	1:B:146:ASP:HA	1	0.35
(1,941)	1:B:76:SER:HA	1:B:146:ASP:HA	1	0.35
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG2	4	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG3	4	0.35
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	5	0.35
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	5	0.35
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	9	0.35
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	9	0.35
(1,812)	1:A:145:VAL:HB	1:A:135:SER:HA	7	0.35
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	8	0.35
(1,787)	1:A:143:LEU:H	1:A:79:LEU:H	1	0.35
(1,78)	1:A:76:SER:HA	1:A:146:ASP:HA	1	0.35
(1,74)	1:A:76:SER:HA	1:A:146:ASP:HA	1	0.35
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	5	0.35
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	5	0.35
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	5	0.35
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	9	0.35
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	9	0.35
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	9	0.35
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	5	0.35
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	7	0.35
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	6	0.35
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	6	0.35
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	6	0.35
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	6	0.35
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	7	0.35
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	9	0.35
(1,563)	1:A:118:PHE:HB2	1:A:118:PHE:H	7	0.35
(1,550)	1:A:118:PHE:HE1	1:A:102:GLY:H	9	0.35
(1,550)	1:A:118:PHE:HE2	1:A:102:GLY:H	9	0.35
(1,512)	1:A:114:ILE:HD11	1:A:113:PHE:HA	9	0.35
(1,512)	1:A:114:ILE:HD12	1:A:113:PHE:HA	9	0.35
(1,512)	1:A:114:ILE:HD13	1:A:113:PHE:HA	9	0.35
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB2	9	0.35
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB3	9	0.35
(1,430)	1:A:107:ARG:H	1:A:108:GLN:H	3	0.35
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	8	0.35
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	2	0.35
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	3	0.35
(1,289)	1:A:94:LEU:H	1:A:93:VAL:HB	7	0.35
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	7	0.35
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	4	0.35
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	4	0.35
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	4	0.35
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	4	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	4	0.35
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	4	0.35
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	6	0.35
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	6	0.35
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	6	0.35
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	6	0.35
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	6	0.35
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	6	0.35
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	9	0.35
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	9	0.35
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	9	0.35
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	9	0.35
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	9	0.35
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	9	0.35
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG2	4	0.35
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG3	4	0.35
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	4	0.35
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	4	0.35
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	7	0.35
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	7	0.35
(1,212)	1:A:85:SER:HB2	1:A:88:GLU:H	3	0.35
(1,1768)	1:A:122:TYR:HA	1:B:112:GLY:H	3	0.35
(1,1753)	1:A:118:PHE:HA	1:B:116:ARG:HA	1	0.35
(1,1738)	1:A:111:HIS:HA	1:B:122:TYR:HD1	1	0.35
(1,1738)	1:A:111:HIS:HA	1:B:122:TYR:HD2	1	0.35
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	5	0.35
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	5	0.35
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	9	0.35
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	9	0.35
(1,1679)	1:B:145:VAL:HB	1:B:135:SER:HA	7	0.35
(1,1654)	1:B:143:LEU:H	1:B:79:LEU:H	1	0.35
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	5	0.35
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	5	0.35
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	5	0.35
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	9	0.35
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	9	0.35
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	9	0.35
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	5	0.35
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	7	0.35
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	6	0.35
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	7	0.35
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	9	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1430)	1:B:118:PHE:HB2	1:B:118:PHE:H	7	0.35
(1,1417)	1:B:118:PHE:HE1	1:B:102:GLY:H	9	0.35
(1,1417)	1:B:118:PHE:HE2	1:B:102:GLY:H	9	0.35
(1,1379)	1:B:114:ILE:HD11	1:B:113:PHE:HA	9	0.35
(1,1379)	1:B:114:ILE:HD12	1:B:113:PHE:HA	9	0.35
(1,1379)	1:B:114:ILE:HD13	1:B:113:PHE:HA	9	0.35
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	2	0.35
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	2	0.35
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB2	9	0.35
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB3	9	0.35
(1,1297)	1:B:107:ARG:H	1:B:108:GLN:H	3	0.35
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	8	0.35
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	3	0.35
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	5	0.35
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	2	0.35
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	3	0.35
(1,1221)	1:B:99:GLU:HA	1:B:100:VAL:H	4	0.35
(1,1156)	1:B:94:LEU:H	1:B:93:VAL:HB	7	0.35
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	7	0.35
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	6	0.35
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	6	0.35
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	6	0.35
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	6	0.35
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	6	0.35
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	6	0.35
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG11	4	0.35
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG12	4	0.35
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG13	4	0.35
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG11	4	0.35
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG12	4	0.35
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG13	4	0.35
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG11	4	0.35
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG12	4	0.35
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG13	4	0.35
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	4	0.35
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	4	0.35
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	7	0.35
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	7	0.35
(1,1079)	1:B:85:SER:HB2	1:B:88:GLU:H	3	0.35
(1,1065)	1:B:84:PHE:HB2	1:B:84:PHE:H	4	0.35
(1,1065)	1:B:84:PHE:HB3	1:B:84:PHE:H	4	0.35
(1,1063)	1:B:84:PHE:HB2	1:B:84:PHE:H	4	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1063)	1:B:84:PHE:HB3	1:B:84:PHE:H	4	0.35
(1,100)	1:A:77:VAL:HG11	1:A:78:ASN:HB2	6	0.35
(1,100)	1:A:77:VAL:HG12	1:A:78:ASN:HB2	6	0.35
(1,100)	1:A:77:VAL:HG13	1:A:78:ASN:HB2	6	0.35
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	7	0.34
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG11	4	0.34
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG12	4	0.34
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG13	4	0.34
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG11	4	0.34
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG12	4	0.34
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG13	4	0.34
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG11	4	0.34
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG12	4	0.34
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG13	4	0.34
(1,975)	1:B:77:VAL:HG11	1:B:79:LEU:H	8	0.34
(1,975)	1:B:77:VAL:HG12	1:B:79:LEU:H	8	0.34
(1,975)	1:B:77:VAL:HG13	1:B:79:LEU:H	8	0.34
(1,929)	1:B:76:SER:HB3	1:B:76:SER:H	9	0.34
(1,909)	1:B:74:ARG:H	1:B:74:ARG:HB2	9	0.34
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	4	0.34
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	1	0.34
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	9	0.34
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	1	0.34
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	9	0.34
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	1	0.34
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	6	0.34
(1,783)	1:A:142:VAL:HG11	1:A:142:VAL:H	4	0.34
(1,783)	1:A:142:VAL:HG12	1:A:142:VAL:H	4	0.34
(1,783)	1:A:142:VAL:HG13	1:A:142:VAL:H	4	0.34
(1,783)	1:A:142:VAL:HG21	1:A:142:VAL:H	4	0.34
(1,783)	1:A:142:VAL:HG22	1:A:142:VAL:H	4	0.34
(1,783)	1:A:142:VAL:HG23	1:A:142:VAL:H	4	0.34
(1,782)	1:A:142:VAL:HG11	1:A:142:VAL:H	4	0.34
(1,782)	1:A:142:VAL:HG12	1:A:142:VAL:H	4	0.34
(1,782)	1:A:142:VAL:HG13	1:A:142:VAL:H	4	0.34
(1,782)	1:A:142:VAL:HG21	1:A:142:VAL:H	4	0.34
(1,782)	1:A:142:VAL:HG22	1:A:142:VAL:H	4	0.34
(1,782)	1:A:142:VAL:HG23	1:A:142:VAL:H	4	0.34
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	6	0.34
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	6	0.34
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	6	0.34
(1,62)	1:A:76:SER:HB3	1:A:76:SER:H	9	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	5	0.34
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	7	0.34
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	7	0.34
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	4	0.34
(1,518)	1:A:114:ILE:HG21	1:A:114:ILE:H	7	0.34
(1,518)	1:A:114:ILE:HG22	1:A:114:ILE:H	7	0.34
(1,518)	1:A:114:ILE:HG23	1:A:114:ILE:H	7	0.34
(1,42)	1:A:74:ARG:H	1:A:74:ARG:HB2	9	0.34
(1,369)	1:A:101:HIS:H	1:A:100:VAL:HA	2	0.34
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB2	9	0.34
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB3	9	0.34
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG21	8	0.34
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG22	8	0.34
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG23	8	0.34
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	2	0.34
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	8	0.34
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	8	0.34
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD21	9	0.34
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD22	9	0.34
(1,219)	1:A:86:PRO:HB2	1:A:89:LEU:HD23	9	0.34
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD21	9	0.34
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD22	9	0.34
(1,219)	1:A:86:PRO:HB3	1:A:89:LEU:HD23	9	0.34
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	4	0.34
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	4	0.34
(1,198)	1:A:84:PHE:HB2	1:A:84:PHE:H	4	0.34
(1,198)	1:A:84:PHE:HB3	1:A:84:PHE:H	4	0.34
(1,196)	1:A:84:PHE:HB2	1:A:84:PHE:H	4	0.34
(1,196)	1:A:84:PHE:HB3	1:A:84:PHE:H	4	0.34
(1,1763)	1:A:122:TYR:HA	1:B:112:GLY:HA3	5	0.34
(1,1756)	1:A:118:PHE:HA	1:B:117:GLU:H	2	0.34
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE1	4	0.34
(1,1736)	1:A:111:HIS:HB2	1:B:122:TYR:HE2	4	0.34
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	5	0.34
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	1	0.34
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	9	0.34
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	1	0.34
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	9	0.34
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	1	0.34
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	6	0.34
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	4	0.34
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	4	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	4	0.34
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	4	0.34
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	4	0.34
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	4	0.34
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	6	0.34
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	6	0.34
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	6	0.34
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD2	6	0.34
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD3	6	0.34
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	5	0.34
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	7	0.34
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	7	0.34
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	4	0.34
(1,1385)	1:B:114:ILE:HG21	1:B:114:ILE:H	7	0.34
(1,1385)	1:B:114:ILE:HG22	1:B:114:ILE:H	7	0.34
(1,1385)	1:B:114:ILE:HG23	1:B:114:ILE:H	7	0.34
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	7	0.34
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	9	0.34
(1,1236)	1:B:101:HIS:H	1:B:100:VAL:HA	2	0.34
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB2	9	0.34
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB3	9	0.34
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG21	8	0.34
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG22	8	0.34
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG23	8	0.34
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	2	0.34
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD21	9	0.34
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD22	9	0.34
(1,1086)	1:B:86:PRO:HB2	1:B:89:LEU:HD23	9	0.34
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD21	9	0.34
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD22	9	0.34
(1,1086)	1:B:86:PRO:HB3	1:B:89:LEU:HD23	9	0.34
(1,108)	1:A:77:VAL:HG11	1:A:79:LEU:H	8	0.34
(1,108)	1:A:77:VAL:HG12	1:A:79:LEU:H	8	0.34
(1,108)	1:A:77:VAL:HG13	1:A:79:LEU:H	8	0.34
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	4	0.34
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	4	0.34
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	2	0.33
(1,950)	1:B:77:VAL:HG11	1:B:68:MET:HA	4	0.33
(1,950)	1:B:77:VAL:HG12	1:B:68:MET:HA	4	0.33
(1,950)	1:B:77:VAL:HG13	1:B:68:MET:HA	4	0.33
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE1	6	0.33
(1,880)	1:B:68:MET:HE1	1:B:122:TYR:HE2	6	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE1	6	0.33
(1,880)	1:B:68:MET:HE2	1:B:122:TYR:HE2	6	0.33
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE1	6	0.33
(1,880)	1:B:68:MET:HE3	1:B:122:TYR:HE2	6	0.33
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	5	0.33
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD11	4	0.33
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD12	4	0.33
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD13	4	0.33
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD21	4	0.33
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD22	4	0.33
(1,871)	1:B:66:SER:HA	1:B:79:LEU:HD23	4	0.33
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD2	4	0.33
(1,857)	1:A:150:LYS:H	1:A:150:LYS:HD3	4	0.33
(1,838)	1:A:146:ASP:HB3	1:A:146:ASP:H	6	0.33
(1,83)	1:A:77:VAL:HG11	1:A:68:MET:HA	4	0.33
(1,83)	1:A:77:VAL:HG12	1:A:68:MET:HA	4	0.33
(1,83)	1:A:77:VAL:HG13	1:A:68:MET:HA	4	0.33
(1,827)	1:A:146:ASP:HB3	1:A:76:SER:HA	3	0.33
(1,826)	1:A:146:ASP:HB3	1:A:76:SER:HA	3	0.33
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	7	0.33
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	7	0.33
(1,817)	1:A:145:VAL:HB	1:A:145:VAL:H	2	0.33
(1,811)	1:A:145:VAL:HB	1:A:77:VAL:HB	7	0.33
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	4	0.33
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	4	0.33
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	4	0.33
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	4	0.33
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	4	0.33
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	4	0.33
(1,742)	1:A:135:SER:HA	1:A:145:VAL:HA	3	0.33
(1,742)	1:A:135:SER:HA	1:A:145:VAL:HA	6	0.33
(1,740)	1:A:135:SER:HA	1:A:145:VAL:HA	3	0.33
(1,740)	1:A:135:SER:HA	1:A:145:VAL:HA	6	0.33
(1,729)	1:A:134:THR:H	1:A:134:THR:HG21	9	0.33
(1,729)	1:A:134:THR:H	1:A:134:THR:HG22	9	0.33
(1,729)	1:A:134:THR:H	1:A:134:THR:HG23	9	0.33
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	1	0.33
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	1	0.33
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	1	0.33
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	1	0.33
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	8	0.33
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	5	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	6	0.33
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	6	0.33
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	6	0.33
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	8	0.33
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	8	0.33
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	8	0.33
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD2	6	0.33
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD3	6	0.33
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG2	1	0.33
(1,539)	1:A:116:ARG:H	1:A:116:ARG:HG3	1	0.33
(1,518)	1:A:114:ILE:HG21	1:A:114:ILE:H	2	0.33
(1,518)	1:A:114:ILE:HG22	1:A:114:ILE:H	2	0.33
(1,518)	1:A:114:ILE:HG23	1:A:114:ILE:H	2	0.33
(1,518)	1:A:114:ILE:HG21	1:A:114:ILE:H	6	0.33
(1,518)	1:A:114:ILE:HG22	1:A:114:ILE:H	6	0.33
(1,518)	1:A:114:ILE:HG23	1:A:114:ILE:H	6	0.33
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	4	0.33
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	5	0.33
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD1	9	0.33
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD2	9	0.33
(1,485)	1:A:113:PHE:HA	1:A:108:GLN:HA	2	0.33
(1,468)	1:A:111:HIS:H	1:A:112:GLY:H	1	0.33
(1,411)	1:A:105:GLU:HB2	1:A:105:GLU:H	8	0.33
(1,411)	1:A:105:GLU:HB3	1:A:105:GLU:H	8	0.33
(1,408)	1:A:104:HIS:HB3	1:A:105:GLU:H	3	0.33
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD11	4	0.33
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD12	4	0.33
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD13	4	0.33
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD21	4	0.33
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD22	4	0.33
(1,4)	1:A:66:SER:HA	1:A:79:LEU:HD23	4	0.33
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	6	0.33
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	3	0.33
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	3	0.33
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	3	0.33
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	3	0.33
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	3	0.33
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	3	0.33
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	6	0.33
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	8	0.33
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	9	0.33
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	7	0.33
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	7	0.33
(1,195)	1:A:84:PHE:HD1	1:A:84:PHE:H	5	0.33
(1,195)	1:A:84:PHE:HD2	1:A:84:PHE:H	5	0.33
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE1	4	0.33
(1,1742)	1:A:114:ILE:HG21	1:B:118:PHE:HE2	4	0.33
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE1	4	0.33
(1,1742)	1:A:114:ILE:HG22	1:B:118:PHE:HE2	4	0.33
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE1	4	0.33
(1,1742)	1:A:114:ILE:HG23	1:B:118:PHE:HE2	4	0.33
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD2	4	0.33
(1,1724)	1:B:150:LYS:H	1:B:150:LYS:HD3	4	0.33
(1,1705)	1:B:146:ASP:HB3	1:B:146:ASP:H	6	0.33
(1,1694)	1:B:146:ASP:HB3	1:B:76:SER:HA	3	0.33
(1,1693)	1:B:146:ASP:HB3	1:B:76:SER:HA	3	0.33
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	7	0.33
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	7	0.33
(1,1684)	1:B:145:VAL:HB	1:B:145:VAL:H	2	0.33
(1,1678)	1:B:145:VAL:HB	1:B:77:VAL:HB	7	0.33
(1,1650)	1:B:142:VAL:HG11	1:B:142:VAL:H	4	0.33
(1,1650)	1:B:142:VAL:HG12	1:B:142:VAL:H	4	0.33
(1,1650)	1:B:142:VAL:HG13	1:B:142:VAL:H	4	0.33
(1,1650)	1:B:142:VAL:HG21	1:B:142:VAL:H	4	0.33
(1,1650)	1:B:142:VAL:HG22	1:B:142:VAL:H	4	0.33
(1,1650)	1:B:142:VAL:HG23	1:B:142:VAL:H	4	0.33
(1,1649)	1:B:142:VAL:HG11	1:B:142:VAL:H	4	0.33
(1,1649)	1:B:142:VAL:HG12	1:B:142:VAL:H	4	0.33
(1,1649)	1:B:142:VAL:HG13	1:B:142:VAL:H	4	0.33
(1,1649)	1:B:142:VAL:HG21	1:B:142:VAL:H	4	0.33
(1,1649)	1:B:142:VAL:HG22	1:B:142:VAL:H	4	0.33
(1,1649)	1:B:142:VAL:HG23	1:B:142:VAL:H	4	0.33
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	6	0.33
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	6	0.33
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	6	0.33
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	6	0.33
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	6	0.33
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	6	0.33
(1,1609)	1:B:135:SER:HA	1:B:145:VAL:HA	3	0.33
(1,1609)	1:B:135:SER:HA	1:B:145:VAL:HA	6	0.33
(1,1607)	1:B:135:SER:HA	1:B:145:VAL:HA	3	0.33
(1,1607)	1:B:135:SER:HA	1:B:145:VAL:HA	6	0.33
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	1	0.33
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	1	0.33
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	1	0.33
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	8	0.33
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	5	0.33
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	6	0.33
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	6	0.33
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	6	0.33
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	6	0.33
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	8	0.33
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	8	0.33
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	8	0.33
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG2	1	0.33
(1,1406)	1:B:116:ARG:H	1:B:116:ARG:HG3	1	0.33
(1,1385)	1:B:114:ILE:HG21	1:B:114:ILE:H	2	0.33
(1,1385)	1:B:114:ILE:HG22	1:B:114:ILE:H	2	0.33
(1,1385)	1:B:114:ILE:HG23	1:B:114:ILE:H	2	0.33
(1,1385)	1:B:114:ILE:HG21	1:B:114:ILE:H	6	0.33
(1,1385)	1:B:114:ILE:HG22	1:B:114:ILE:H	6	0.33
(1,1385)	1:B:114:ILE:HG23	1:B:114:ILE:H	6	0.33
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD1	9	0.33
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD2	9	0.33
(1,1352)	1:B:113:PHE:HA	1:B:108:GLN:HA	2	0.33
(1,1335)	1:B:111:HIS:H	1:B:112:GLY:H	1	0.33
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE1	6	0.33
(1,13)	1:A:68:MET:HE1	1:A:122:TYR:HE2	6	0.33
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE1	6	0.33
(1,13)	1:A:68:MET:HE2	1:A:122:TYR:HE2	6	0.33
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE1	6	0.33
(1,13)	1:A:68:MET:HE3	1:A:122:TYR:HE2	6	0.33
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	2	0.33
(1,1278)	1:B:105:GLU:HB2	1:B:105:GLU:H	8	0.33
(1,1278)	1:B:105:GLU:HB3	1:B:105:GLU:H	8	0.33
(1,1275)	1:B:104:HIS:HB3	1:B:105:GLU:H	3	0.33
(1,1244)	1:B:101:HIS:HB3	1:B:101:HIS:HA	2	0.33
(1,1240)	1:B:101:HIS:HB3	1:B:101:HIS:HA	2	0.33
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	6	0.33
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	3	0.33
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	3	0.33
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	3	0.33
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	3	0.33
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	3	0.33
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	4	0.33
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	4	0.33
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	4	0.33
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	4	0.33
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	4	0.33
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	4	0.33
(1,1147)	1:B:92:LYS:H	1:B:100:VAL:HA	1	0.33
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	6	0.33
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	8	0.33
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	9	0.33
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	9	0.33
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	8	0.33
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	8	0.33
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	7	0.33
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	7	0.33
(1,997)	1:B:78:ASN:HB2	1:B:79:LEU:H	4	0.32
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	8	0.32
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE1	4	0.32
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE2	4	0.32
(1,948)	1:B:77:VAL:HG11	1:B:68:MET:HE3	4	0.32
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE1	4	0.32
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE2	4	0.32
(1,948)	1:B:77:VAL:HG12	1:B:68:MET:HE3	4	0.32
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE1	4	0.32
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE2	4	0.32
(1,948)	1:B:77:VAL:HG13	1:B:68:MET:HE3	4	0.32
(1,888)	1:B:70:LEU:HD11	1:B:71:GLU:H	5	0.32
(1,888)	1:B:70:LEU:HD12	1:B:71:GLU:H	5	0.32
(1,888)	1:B:70:LEU:HD13	1:B:71:GLU:H	5	0.32
(1,888)	1:B:70:LEU:HD21	1:B:71:GLU:H	5	0.32
(1,888)	1:B:70:LEU:HD22	1:B:71:GLU:H	5	0.32
(1,888)	1:B:70:LEU:HD23	1:B:71:GLU:H	5	0.32
(1,878)	1:B:68:MET:HG2	1:B:69:ARG:H	1	0.32
(1,878)	1:B:68:MET:HG3	1:B:69:ARG:H	1	0.32
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE1	4	0.32
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE2	4	0.32
(1,81)	1:A:77:VAL:HG11	1:A:68:MET:HE3	4	0.32
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE1	4	0.32
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE2	4	0.32
(1,81)	1:A:77:VAL:HG12	1:A:68:MET:HE3	4	0.32
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE1	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE2	4	0.32
(1,81)	1:A:77:VAL:HG13	1:A:68:MET:HE3	4	0.32
(1,809)	1:A:144:THR:HG21	1:A:146:ASP:HB3	7	0.32
(1,809)	1:A:144:THR:HG22	1:A:146:ASP:HB3	7	0.32
(1,809)	1:A:144:THR:HG23	1:A:146:ASP:HB3	7	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	6	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	6	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	6	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	6	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	6	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	6	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	9	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	9	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	9	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	9	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	9	0.32
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	9	0.32
(1,727)	1:A:133:ILE:HG21	1:A:145:VAL:HB	2	0.32
(1,727)	1:A:133:ILE:HG22	1:A:145:VAL:HB	2	0.32
(1,727)	1:A:133:ILE:HG23	1:A:145:VAL:HB	2	0.32
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	6	0.32
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	7	0.32
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	7	0.32
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	7	0.32
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	7	0.32
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	7	0.32
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	7	0.32
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	7	0.32
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	6	0.32
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	9	0.32
(1,621)	1:A:124:ILE:HD11	1:A:123:ARG:HA	3	0.32
(1,621)	1:A:124:ILE:HD12	1:A:123:ARG:HA	3	0.32
(1,621)	1:A:124:ILE:HD13	1:A:123:ARG:HA	3	0.32
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	1	0.32
(1,574)	1:A:119:HIS:HB3	1:A:119:HIS:HD2	3	0.32
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	3	0.32
(1,511)	1:A:114:ILE:HG21	1:A:112:GLY:H	8	0.32
(1,511)	1:A:114:ILE:HG22	1:A:112:GLY:H	8	0.32
(1,511)	1:A:114:ILE:HG23	1:A:112:GLY:H	8	0.32
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	2	0.32
(1,421)	1:A:107:ARG:HD2	1:A:105:GLU:H	3	0.32
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:A:101:HIS:HB3	1:A:101:HIS:HA	2	0.32
(1,373)	1:A:101:HIS:HB3	1:A:101:HIS:HA	2	0.32
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	8	0.32
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	1	0.32
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	1	0.32
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	1	0.32
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	2	0.32
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	2	0.32
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	2	0.32
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	7	0.32
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	7	0.32
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	7	0.32
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	7	0.32
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	7	0.32
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	7	0.32
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	2	0.32
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	3	0.32
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	2	0.32
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	2	0.32
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	2	0.32
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	2	0.32
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	2	0.32
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	2	0.32
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	1	0.32
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	1	0.32
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	1	0.32
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	1	0.32
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	1	0.32
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	1	0.32
(1,280)	1:A:92:LYS:H	1:A:100:VAL:HA	1	0.32
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	7	0.32
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	6	0.32
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	6	0.32
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	5	0.32
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	5	0.32
(1,21)	1:A:70:LEU:HD11	1:A:71:GLU:H	5	0.32
(1,21)	1:A:70:LEU:HD12	1:A:71:GLU:H	5	0.32
(1,21)	1:A:70:LEU:HD13	1:A:71:GLU:H	5	0.32
(1,21)	1:A:70:LEU:HD21	1:A:71:GLU:H	5	0.32
(1,21)	1:A:70:LEU:HD22	1:A:71:GLU:H	5	0.32
(1,21)	1:A:70:LEU:HD23	1:A:71:GLU:H	5	0.32
(1,1756)	1:A:118:PHE:HA	1:B:117:GLU:H	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1676)	1:B:144:THR:HG21	1:B:146:ASP:HB3	7	0.32
(1,1676)	1:B:144:THR:HG22	1:B:146:ASP:HB3	7	0.32
(1,1676)	1:B:144:THR:HG23	1:B:146:ASP:HB3	7	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	2	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	2	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	2	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	2	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	2	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	2	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	9	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	9	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	9	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	9	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	9	0.32
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	9	0.32
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	6	0.32
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	7	0.32
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	7	0.32
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	7	0.32
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	7	0.32
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	7	0.32
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	7	0.32
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	7	0.32
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	9	0.32
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	1	0.32
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	3	0.32
(1,1378)	1:B:114:ILE:HG21	1:B:112:GLY:H	8	0.32
(1,1378)	1:B:114:ILE:HG22	1:B:112:GLY:H	8	0.32
(1,1378)	1:B:114:ILE:HG23	1:B:112:GLY:H	8	0.32
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	2	0.32
(1,130)	1:A:78:ASN:HB2	1:A:79:LEU:H	4	0.32
(1,1288)	1:B:107:ARG:HD2	1:B:105:GLU:H	3	0.32
(1,1282)	1:B:105:GLU:HA	1:B:106:GLU:H	3	0.32
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	8	0.32
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	5	0.32
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	8	0.32
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	1	0.32
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	1	0.32
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	1	0.32
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	2	0.32
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	2	0.32
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	7	0.32
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	7	0.32
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	7	0.32
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	7	0.32
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	7	0.32
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	7	0.32
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	2	0.32
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	3	0.32
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	2	0.32
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	2	0.32
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	2	0.32
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	2	0.32
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	2	0.32
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	2	0.32
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	1	0.32
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	1	0.32
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	1	0.32
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	1	0.32
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	1	0.32
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	1	0.32
(1,1131)	1:B:90:LYS:HG2	1:B:90:LYS:H	1	0.32
(1,1131)	1:B:90:LYS:HG3	1:B:90:LYS:H	1	0.32
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	7	0.32
(1,11)	1:A:68:MET:HG2	1:A:69:ARG:H	1	0.32
(1,11)	1:A:68:MET:HG3	1:A:69:ARG:H	1	0.32
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	6	0.32
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	6	0.32
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	5	0.32
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	5	0.32
(1,1062)	1:B:84:PHE:HD1	1:B:84:PHE:H	5	0.32
(1,1062)	1:B:84:PHE:HD2	1:B:84:PHE:H	5	0.32
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG21	9	0.31
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG22	9	0.31
(1,980)	1:B:77:VAL:HB	1:B:145:VAL:HG23	9	0.31
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD1	2	0.31
(1,954)	1:B:77:VAL:HG21	1:B:75:PHE:HD2	2	0.31
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD1	2	0.31
(1,954)	1:B:77:VAL:HG22	1:B:75:PHE:HD2	2	0.31
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD1	2	0.31
(1,954)	1:B:77:VAL:HG23	1:B:75:PHE:HD2	2	0.31
(1,915)	1:B:75:PHE:HA	1:B:75:PHE:HB3	2	0.31
(1,909)	1:B:74:ARG:H	1:B:74:ARG:HB2	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD1	2	0.31
(1,87)	1:A:77:VAL:HG21	1:A:75:PHE:HD2	2	0.31
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD1	2	0.31
(1,87)	1:A:77:VAL:HG22	1:A:75:PHE:HD2	2	0.31
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD1	2	0.31
(1,87)	1:A:77:VAL:HG23	1:A:75:PHE:HD2	2	0.31
(1,863)	1:A:150:LYS:H	1:A:151:GLN:H	6	0.31
(1,860)	1:A:150:LYS:H	1:A:151:GLN:H	6	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	2	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	2	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	2	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	2	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	2	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	2	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	7	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	7	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	7	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	7	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	7	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	7	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	8	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	8	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	8	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	8	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	8	0.31
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	8	0.31
(1,778)	1:A:142:VAL:H	1:A:141:GLY:H	4	0.31
(1,777)	1:A:142:VAL:H	1:A:141:GLY:H	4	0.31
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	2	0.31
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	2	0.31
(1,742)	1:A:135:SER:HA	1:A:145:VAL:HA	5	0.31
(1,740)	1:A:135:SER:HA	1:A:145:VAL:HA	5	0.31
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	3	0.31
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	5	0.31
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	9	0.31
(1,661)	1:A:126:ALA:HB1	1:A:128:VAL:H	8	0.31
(1,661)	1:A:126:ALA:HB2	1:A:128:VAL:H	8	0.31
(1,661)	1:A:126:ALA:HB3	1:A:128:VAL:H	8	0.31
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	1	0.31
(1,585)	1:A:121:LYS:HG2	1:A:121:LYS:HA	4	0.31
(1,585)	1:A:121:LYS:HG3	1:A:121:LYS:HA	4	0.31
(1,578)	1:A:119:HIS:HA	1:A:119:HIS:H	5	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,576)	1:A:119:HIS:HB3	1:A:119:HIS:HA	5	0.31
(1,575)	1:A:119:HIS:HB3	1:A:119:HIS:HA	5	0.31
(1,510)	1:A:114:ILE:HG21	1:A:111:HIS:H	2	0.31
(1,510)	1:A:114:ILE:HG22	1:A:111:HIS:H	2	0.31
(1,510)	1:A:114:ILE:HG23	1:A:111:HIS:H	2	0.31
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	7	0.31
(1,487)	1:A:113:PHE:H	1:A:112:GLY:H	1	0.31
(1,48)	1:A:75:PHE:HA	1:A:75:PHE:HB3	2	0.31
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	2	0.31
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	2	0.31
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	2	0.31
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	3	0.31
(1,42)	1:A:74:ARG:H	1:A:74:ARG:HB2	3	0.31
(1,415)	1:A:105:GLU:HA	1:A:106:GLU:H	3	0.31
(1,414)	1:A:105:GLU:HG2	1:A:105:GLU:H	3	0.31
(1,414)	1:A:105:GLU:HG3	1:A:105:GLU:H	3	0.31
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	7	0.31
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	5	0.31
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	5	0.31
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	5	0.31
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	6	0.31
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	6	0.31
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	6	0.31
(1,314)	1:A:96:ASP:HB2	1:A:96:ASP:H	5	0.31
(1,314)	1:A:96:ASP:HB3	1:A:96:ASP:H	5	0.31
(1,313)	1:A:96:ASP:HB2	1:A:96:ASP:H	5	0.31
(1,313)	1:A:96:ASP:HB3	1:A:96:ASP:H	5	0.31
(1,311)	1:A:96:ASP:HB2	1:A:96:ASP:H	5	0.31
(1,311)	1:A:96:ASP:HB3	1:A:96:ASP:H	5	0.31
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	4	0.31
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	8	0.31
(1,287)	1:A:93:VAL:HA	1:A:98:ILE:HA	3	0.31
(1,281)	1:A:92:LYS:H	1:A:101:HIS:H	9	0.31
(1,264)	1:A:90:LYS:HG2	1:A:90:LYS:H	1	0.31
(1,264)	1:A:90:LYS:HG3	1:A:90:LYS:H	1	0.31
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD21	4	0.31
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD22	4	0.31
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD23	4	0.31
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD21	5	0.31
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD22	5	0.31
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD23	5	0.31
(1,238)	1:A:89:LEU:HD11	1:A:85:SER:H	9	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:A:89:LEU:HD12	1:A:85:SER:H	9	0.31
(1,238)	1:A:89:LEU:HD13	1:A:85:SER:H	9	0.31
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	3	0.31
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	3	0.31
(1,1730)	1:B:150:LYS:H	1:B:151:GLN:H	6	0.31
(1,1727)	1:B:150:LYS:H	1:B:151:GLN:H	6	0.31
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	8	0.31
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	8	0.31
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	8	0.31
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	8	0.31
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	8	0.31
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	8	0.31
(1,1645)	1:B:142:VAL:H	1:B:141:GLY:H	4	0.31
(1,1644)	1:B:142:VAL:H	1:B:141:GLY:H	4	0.31
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	2	0.31
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	2	0.31
(1,1609)	1:B:135:SER:HA	1:B:145:VAL:HA	5	0.31
(1,1607)	1:B:135:SER:HA	1:B:145:VAL:HA	5	0.31
(1,1594)	1:B:133:ILE:HG21	1:B:145:VAL:HB	2	0.31
(1,1594)	1:B:133:ILE:HG22	1:B:145:VAL:HB	2	0.31
(1,1594)	1:B:133:ILE:HG23	1:B:145:VAL:HB	2	0.31
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	3	0.31
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	5	0.31
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	9	0.31
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	8	0.31
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	8	0.31
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	8	0.31
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	8	0.31
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	8	0.31
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	8	0.31
(1,1528)	1:B:126:ALA:HB1	1:B:128:VAL:H	8	0.31
(1,1528)	1:B:126:ALA:HB2	1:B:128:VAL:H	8	0.31
(1,1528)	1:B:126:ALA:HB3	1:B:128:VAL:H	8	0.31
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	1	0.31
(1,1502)	1:B:124:ILE:HD11	1:B:124:ILE:H	2	0.31
(1,1502)	1:B:124:ILE:HD12	1:B:124:ILE:H	2	0.31
(1,1502)	1:B:124:ILE:HD13	1:B:124:ILE:H	2	0.31
(1,1501)	1:B:124:ILE:HD11	1:B:124:ILE:H	2	0.31
(1,1501)	1:B:124:ILE:HD12	1:B:124:ILE:H	2	0.31
(1,1501)	1:B:124:ILE:HD13	1:B:124:ILE:H	2	0.31
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB2	6	0.31
(1,150)	1:A:81:VAL:HG11	1:A:79:LEU:HB3	6	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB2	6	0.31
(1,150)	1:A:81:VAL:HG12	1:A:79:LEU:HB3	6	0.31
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB2	6	0.31
(1,150)	1:A:81:VAL:HG13	1:A:79:LEU:HB3	6	0.31
(1,1488)	1:B:124:ILE:HD11	1:B:123:ARG:HA	3	0.31
(1,1488)	1:B:124:ILE:HD12	1:B:123:ARG:HA	3	0.31
(1,1488)	1:B:124:ILE:HD13	1:B:123:ARG:HA	3	0.31
(1,1479)	1:B:123:ARG:HB3	1:B:124:ILE:H	1	0.31
(1,1452)	1:B:121:LYS:HG2	1:B:121:LYS:HA	4	0.31
(1,1452)	1:B:121:LYS:HG3	1:B:121:LYS:HA	4	0.31
(1,1445)	1:B:119:HIS:HA	1:B:119:HIS:H	5	0.31
(1,1443)	1:B:119:HIS:HB3	1:B:119:HIS:HA	5	0.31
(1,1442)	1:B:119:HIS:HB3	1:B:119:HIS:HA	5	0.31
(1,1441)	1:B:119:HIS:HB3	1:B:119:HIS:HD2	1	0.31
(1,1377)	1:B:114:ILE:HG21	1:B:111:HIS:H	2	0.31
(1,1377)	1:B:114:ILE:HG22	1:B:111:HIS:H	2	0.31
(1,1377)	1:B:114:ILE:HG23	1:B:111:HIS:H	2	0.31
(1,1354)	1:B:113:PHE:H	1:B:112:GLY:H	1	0.31
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	2	0.31
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	2	0.31
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	2	0.31
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	3	0.31
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	7	0.31
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	6	0.31
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	6	0.31
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	6	0.31
(1,1181)	1:B:96:ASP:HB2	1:B:96:ASP:H	5	0.31
(1,1181)	1:B:96:ASP:HB3	1:B:96:ASP:H	5	0.31
(1,1180)	1:B:96:ASP:HB2	1:B:96:ASP:H	5	0.31
(1,1180)	1:B:96:ASP:HB3	1:B:96:ASP:H	5	0.31
(1,1178)	1:B:96:ASP:HB2	1:B:96:ASP:H	5	0.31
(1,1178)	1:B:96:ASP:HB3	1:B:96:ASP:H	5	0.31
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	4	0.31
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	8	0.31
(1,1154)	1:B:93:VAL:HA	1:B:98:ILE:HA	3	0.31
(1,1148)	1:B:92:LYS:H	1:B:101:HIS:H	9	0.31
(1,1134)	1:B:90:LYS:HB2	1:B:101:HIS:HB3	3	0.31
(1,1134)	1:B:90:LYS:HB3	1:B:101:HIS:HB3	3	0.31
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG21	9	0.31
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG22	9	0.31
(1,113)	1:A:77:VAL:HB	1:A:145:VAL:HG23	9	0.31
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD21	4	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD22	4	0.31
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD23	4	0.31
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD21	5	0.31
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD22	5	0.31
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD23	5	0.31
(1,1105)	1:B:89:LEU:HD11	1:B:85:SER:H	9	0.31
(1,1105)	1:B:89:LEU:HD12	1:B:85:SER:H	9	0.31
(1,1105)	1:B:89:LEU:HD13	1:B:85:SER:H	9	0.31
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	3	0.31
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	3	0.31
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB2	6	0.31
(1,1017)	1:B:81:VAL:HG11	1:B:79:LEU:HB3	6	0.31
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB2	6	0.31
(1,1017)	1:B:81:VAL:HG12	1:B:79:LEU:HB3	6	0.31
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB2	6	0.31
(1,1017)	1:B:81:VAL:HG13	1:B:79:LEU:HB3	6	0.31
(1,975)	1:B:77:VAL:HG11	1:B:79:LEU:H	5	0.3
(1,975)	1:B:77:VAL:HG12	1:B:79:LEU:H	5	0.3
(1,975)	1:B:77:VAL:HG13	1:B:79:LEU:H	5	0.3
(1,945)	1:B:76:SER:HA	1:B:146:ASP:HA	5	0.3
(1,941)	1:B:76:SER:HA	1:B:146:ASP:HA	5	0.3
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG21	2	0.3
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG22	2	0.3
(1,932)	1:B:76:SER:HB2	1:B:144:THR:HG23	2	0.3
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	1	0.3
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	5	0.3
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	8	0.3
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	8	0.3
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	7	0.3
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	8	0.3
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	8	0.3
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	5	0.3
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	5	0.3
(1,804)	1:A:144:THR:HA	1:A:145:VAL:H	2	0.3
(1,78)	1:A:76:SER:HA	1:A:146:ASP:HA	5	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	3	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	3	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	3	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	3	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	3	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	3	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	5	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	5	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	5	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	5	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	5	0.3
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	5	0.3
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	5	0.3
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	5	0.3
(1,763)	1:A:138:SER:H	1:A:142:VAL:H	2	0.3
(1,760)	1:A:138:SER:H	1:A:142:VAL:H	2	0.3
(1,745)	1:A:136:SER:H	1:A:135:SER:H	2	0.3
(1,74)	1:A:76:SER:HA	1:A:146:ASP:HA	5	0.3
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	4	0.3
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	4	0.3
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	4	0.3
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	7	0.3
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	7	0.3
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	7	0.3
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	9	0.3
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	9	0.3
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	9	0.3
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	8	0.3
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	8	0.3
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	8	0.3
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	8	0.3
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	8	0.3
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	8	0.3
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG21	2	0.3
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG22	2	0.3
(1,65)	1:A:76:SER:HB2	1:A:144:THR:HG23	2	0.3
(1,635)	1:A:124:ILE:HD11	1:A:124:ILE:H	2	0.3
(1,635)	1:A:124:ILE:HD12	1:A:124:ILE:H	2	0.3
(1,635)	1:A:124:ILE:HD13	1:A:124:ILE:H	2	0.3
(1,634)	1:A:124:ILE:HD11	1:A:124:ILE:H	2	0.3
(1,634)	1:A:124:ILE:HD12	1:A:124:ILE:H	2	0.3
(1,634)	1:A:124:ILE:HD13	1:A:124:ILE:H	2	0.3
(1,612)	1:A:123:ARG:HB3	1:A:124:ILE:H	1	0.3
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD11	7	0.3
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD12	7	0.3
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD13	7	0.3
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD11	7	0.3
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD12	7	0.3
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD13	7	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	1	0.3
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	5	0.3
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	6	0.3
(1,376)	1:A:101:HIS:HB2	1:A:101:HIS:HD2	8	0.3
(1,337)	1:A:98:ILE:HD11	1:A:98:ILE:HB	4	0.3
(1,337)	1:A:98:ILE:HD12	1:A:98:ILE:HB	4	0.3
(1,337)	1:A:98:ILE:HD13	1:A:98:ILE:HB	4	0.3
(1,331)	1:A:97:VAL:HA	1:A:123:ARG:HD2	1	0.3
(1,331)	1:A:97:VAL:HA	1:A:123:ARG:HD3	1	0.3
(1,314)	1:A:96:ASP:HB2	1:A:96:ASP:H	2	0.3
(1,314)	1:A:96:ASP:HB3	1:A:96:ASP:H	2	0.3
(1,313)	1:A:96:ASP:HB2	1:A:96:ASP:H	2	0.3
(1,313)	1:A:96:ASP:HB3	1:A:96:ASP:H	2	0.3
(1,311)	1:A:96:ASP:HB2	1:A:96:ASP:H	2	0.3
(1,311)	1:A:96:ASP:HB3	1:A:96:ASP:H	2	0.3
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	7	0.3
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	1	0.3
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	3	0.3
(1,267)	1:A:90:LYS:HB2	1:A:101:HIS:HB3	3	0.3
(1,267)	1:A:90:LYS:HB3	1:A:101:HIS:HB3	3	0.3
(1,242)	1:A:89:LEU:H	1:A:88:GLU:H	2	0.3
(1,241)	1:A:89:LEU:H	1:A:88:GLU:H	2	0.3
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	8	0.3
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	8	0.3
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	2	0.3
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	2	0.3
(1,201)	1:A:84:PHE:HD1	1:A:89:LEU:HA	1	0.3
(1,201)	1:A:84:PHE:HD2	1:A:89:LEU:HA	1	0.3
(1,182)	1:A:83:HIS:HA	1:A:84:PHE:H	4	0.3
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB2	2	0.3
(1,181)	1:A:83:HIS:HB2	1:A:84:PHE:HB3	2	0.3
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	2	0.3
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	2	0.3
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	8	0.3
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	8	0.3
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	5	0.3
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	5	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	3	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	3	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	3	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	3	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	3	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	3	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	5	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	5	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	5	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	5	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	5	0.3
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	5	0.3
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	5	0.3
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	5	0.3
(1,1630)	1:B:138:SER:H	1:B:142:VAL:H	2	0.3
(1,163)	1:A:81:VAL:HG21	1:A:83:HIS:H	2	0.3
(1,163)	1:A:81:VAL:HG22	1:A:83:HIS:H	2	0.3
(1,163)	1:A:81:VAL:HG23	1:A:83:HIS:H	2	0.3
(1,1627)	1:B:138:SER:H	1:B:142:VAL:H	2	0.3
(1,1612)	1:B:136:SER:H	1:B:135:SER:H	2	0.3
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG21	9	0.3
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG22	9	0.3
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG23	9	0.3
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	7	0.3
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	7	0.3
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	7	0.3
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	9	0.3
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	9	0.3
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	9	0.3
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	2	0.3
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD11	7	0.3
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD12	7	0.3
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD13	7	0.3
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD11	7	0.3
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD12	7	0.3
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD13	7	0.3
(1,1441)	1:B:119:HIS:HB3	1:B:119:HIS:HD2	6	0.3
(1,1385)	1:B:114:ILE:HG21	1:B:114:ILE:H	5	0.3
(1,1385)	1:B:114:ILE:HG22	1:B:114:ILE:H	5	0.3
(1,1385)	1:B:114:ILE:HG23	1:B:114:ILE:H	5	0.3
(1,138)	1:A:79:LEU:HD11	1:A:79:LEU:HA	6	0.3
(1,138)	1:A:79:LEU:HD12	1:A:79:LEU:HA	6	0.3
(1,138)	1:A:79:LEU:HD13	1:A:79:LEU:HA	6	0.3
(1,138)	1:A:79:LEU:HD21	1:A:79:LEU:HA	6	0.3
(1,138)	1:A:79:LEU:HD22	1:A:79:LEU:HA	6	0.3
(1,138)	1:A:79:LEU:HD23	1:A:79:LEU:HA	6	0.3
(1,138)	1:A:79:LEU:HD11	1:A:79:LEU:HA	8	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,138)	1:A:79:LEU:HD12	1:A:79:LEU:HA	8	0.3
(1,138)	1:A:79:LEU:HD13	1:A:79:LEU:HA	8	0.3
(1,138)	1:A:79:LEU:HD21	1:A:79:LEU:HA	8	0.3
(1,138)	1:A:79:LEU:HD22	1:A:79:LEU:HA	8	0.3
(1,138)	1:A:79:LEU:HD23	1:A:79:LEU:HA	8	0.3
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	6	0.3
(1,1281)	1:B:105:GLU:HG2	1:B:105:GLU:H	3	0.3
(1,1281)	1:B:105:GLU:HG3	1:B:105:GLU:H	3	0.3
(1,1243)	1:B:101:HIS:HB2	1:B:101:HIS:HD2	8	0.3
(1,1204)	1:B:98:ILE:HD11	1:B:98:ILE:HB	5	0.3
(1,1204)	1:B:98:ILE:HD12	1:B:98:ILE:HB	5	0.3
(1,1204)	1:B:98:ILE:HD13	1:B:98:ILE:HB	5	0.3
(1,1198)	1:B:97:VAL:HA	1:B:123:ARG:HD2	1	0.3
(1,1198)	1:B:97:VAL:HA	1:B:123:ARG:HD3	1	0.3
(1,1181)	1:B:96:ASP:HB2	1:B:96:ASP:H	2	0.3
(1,1181)	1:B:96:ASP:HB3	1:B:96:ASP:H	2	0.3
(1,1180)	1:B:96:ASP:HB2	1:B:96:ASP:H	2	0.3
(1,1180)	1:B:96:ASP:HB3	1:B:96:ASP:H	2	0.3
(1,1178)	1:B:96:ASP:HB2	1:B:96:ASP:H	2	0.3
(1,1178)	1:B:96:ASP:HB3	1:B:96:ASP:H	2	0.3
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	7	0.3
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	1	0.3
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	3	0.3
(1,1109)	1:B:89:LEU:H	1:B:88:GLU:H	2	0.3
(1,1108)	1:B:89:LEU:H	1:B:88:GLU:H	2	0.3
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	2	0.3
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	2	0.3
(1,108)	1:A:77:VAL:HG11	1:A:79:LEU:H	5	0.3
(1,108)	1:A:77:VAL:HG12	1:A:79:LEU:H	5	0.3
(1,108)	1:A:77:VAL:HG13	1:A:79:LEU:H	5	0.3
(1,1068)	1:B:84:PHE:HD1	1:B:89:LEU:HA	1	0.3
(1,1068)	1:B:84:PHE:HD2	1:B:89:LEU:HA	1	0.3
(1,1049)	1:B:83:HIS:HA	1:B:84:PHE:H	4	0.3
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB2	2	0.3
(1,1048)	1:B:83:HIS:HB2	1:B:84:PHE:HB3	2	0.3
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	2	0.3
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	2	0.3
(1,1030)	1:B:81:VAL:HG21	1:B:83:HIS:H	2	0.3
(1,1030)	1:B:81:VAL:HG22	1:B:83:HIS:H	2	0.3
(1,1030)	1:B:81:VAL:HG23	1:B:83:HIS:H	2	0.3
(1,1005)	1:B:79:LEU:HD11	1:B:79:LEU:HA	6	0.3
(1,1005)	1:B:79:LEU:HD12	1:B:79:LEU:HA	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1005)	1:B:79:LEU:HD13	1:B:79:LEU:HA	6	0.3
(1,1005)	1:B:79:LEU:HD21	1:B:79:LEU:HA	6	0.3
(1,1005)	1:B:79:LEU:HD22	1:B:79:LEU:HA	6	0.3
(1,1005)	1:B:79:LEU:HD23	1:B:79:LEU:HA	6	0.3
(1,1005)	1:B:79:LEU:HD11	1:B:79:LEU:HA	8	0.3
(1,1005)	1:B:79:LEU:HD12	1:B:79:LEU:HA	8	0.3
(1,1005)	1:B:79:LEU:HD13	1:B:79:LEU:HA	8	0.3
(1,1005)	1:B:79:LEU:HD21	1:B:79:LEU:HA	8	0.3
(1,1005)	1:B:79:LEU:HD22	1:B:79:LEU:HA	8	0.3
(1,1005)	1:B:79:LEU:HD23	1:B:79:LEU:HA	8	0.3
(1,940)	1:B:76:SER:HB2	1:B:146:ASP:HB2	7	0.29
(1,937)	1:B:76:SER:HB2	1:B:146:ASP:HB2	7	0.29
(1,934)	1:B:76:SER:HB2	1:B:146:ASP:HB2	7	0.29
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	3	0.29
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	6	0.29
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	7	0.29
(1,905)	1:B:74:ARG:H	1:B:73:ASP:H	6	0.29
(1,904)	1:B:74:ARG:H	1:B:73:ASP:H	6	0.29
(1,9)	1:A:68:MET:HE1	1:A:68:MET:H	3	0.29
(1,9)	1:A:68:MET:HE2	1:A:68:MET:H	3	0.29
(1,9)	1:A:68:MET:HE3	1:A:68:MET:H	3	0.29
(1,876)	1:B:68:MET:HE1	1:B:68:MET:H	3	0.29
(1,876)	1:B:68:MET:HE2	1:B:68:MET:H	3	0.29
(1,876)	1:B:68:MET:HE3	1:B:68:MET:H	3	0.29
(1,827)	1:A:146:ASP:HB3	1:A:76:SER:HA	7	0.29
(1,826)	1:A:146:ASP:HB3	1:A:76:SER:HA	7	0.29
(1,817)	1:A:145:VAL:HB	1:A:145:VAL:H	1	0.29
(1,805)	1:A:144:THR:HG21	1:A:145:VAL:H	9	0.29
(1,805)	1:A:144:THR:HG22	1:A:145:VAL:H	9	0.29
(1,805)	1:A:144:THR:HG23	1:A:145:VAL:H	9	0.29
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG11	1	0.29
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG12	1	0.29
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG13	1	0.29
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG21	1	0.29
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG22	1	0.29
(1,779)	1:A:142:VAL:HA	1:A:142:VAL:HG23	1	0.29
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	1	0.29
(1,745)	1:A:136:SER:H	1:A:135:SER:H	3	0.29
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	7	0.29
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	7	0.29
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	7	0.29
(1,73)	1:A:76:SER:HB2	1:A:146:ASP:HB2	7	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	4	0.29
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	4	0.29
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	4	0.29
(1,708)	1:A:132:THR:H	1:A:133:ILE:H	3	0.29
(1,706)	1:A:132:THR:H	1:A:133:ILE:H	3	0.29
(1,70)	1:A:76:SER:HB2	1:A:146:ASP:HB2	7	0.29
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	2	0.29
(1,67)	1:A:76:SER:HB2	1:A:146:ASP:HB2	7	0.29
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	2	0.29
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	7	0.29
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	7	0.29
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	7	0.29
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	7	0.29
(1,576)	1:A:119:HIS:HB3	1:A:119:HIS:HA	6	0.29
(1,575)	1:A:119:HIS:HB3	1:A:119:HIS:HA	6	0.29
(1,572)	1:A:119:HIS:HB2	1:A:119:HIS:HA	4	0.29
(1,572)	1:A:119:HIS:HB2	1:A:119:HIS:HA	9	0.29
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	9	0.29
(1,518)	1:A:114:ILE:HG21	1:A:114:ILE:H	5	0.29
(1,518)	1:A:114:ILE:HG22	1:A:114:ILE:H	5	0.29
(1,518)	1:A:114:ILE:HG23	1:A:114:ILE:H	5	0.29
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	3	0.29
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	6	0.29
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	7	0.29
(1,487)	1:A:113:PHE:H	1:A:112:GLY:H	4	0.29
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG21	7	0.29
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG22	7	0.29
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG23	7	0.29
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	7	0.29
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	8	0.29
(1,38)	1:A:74:ARG:H	1:A:73:ASP:H	6	0.29
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	8	0.29
(1,37)	1:A:74:ARG:H	1:A:73:ASP:H	6	0.29
(1,369)	1:A:101:HIS:H	1:A:100:VAL:HA	3	0.29
(1,335)	1:A:98:ILE:H	1:A:97:VAL:H	6	0.29
(1,314)	1:A:96:ASP:HB2	1:A:96:ASP:H	9	0.29
(1,314)	1:A:96:ASP:HB3	1:A:96:ASP:H	9	0.29
(1,313)	1:A:96:ASP:HB2	1:A:96:ASP:H	9	0.29
(1,313)	1:A:96:ASP:HB3	1:A:96:ASP:H	9	0.29
(1,311)	1:A:96:ASP:HB2	1:A:96:ASP:H	9	0.29
(1,311)	1:A:96:ASP:HB3	1:A:96:ASP:H	9	0.29
(1,279)	1:A:92:LYS:H	1:A:99:GLU:H	5	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	2	0.29
(1,259)	1:A:89:LEU:HD11	1:A:103:LYS:H	7	0.29
(1,259)	1:A:89:LEU:HD12	1:A:103:LYS:H	7	0.29
(1,259)	1:A:89:LEU:HD13	1:A:103:LYS:H	7	0.29
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	8	0.29
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	8	0.29
(1,1694)	1:B:146:ASP:HB3	1:B:76:SER:HA	7	0.29
(1,1693)	1:B:146:ASP:HB3	1:B:76:SER:HA	7	0.29
(1,1684)	1:B:145:VAL:HB	1:B:145:VAL:H	1	0.29
(1,1672)	1:B:144:THR:HG21	1:B:145:VAL:H	9	0.29
(1,1672)	1:B:144:THR:HG22	1:B:145:VAL:H	9	0.29
(1,1672)	1:B:144:THR:HG23	1:B:145:VAL:H	9	0.29
(1,1671)	1:B:144:THR:HA	1:B:145:VAL:H	2	0.29
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG11	1	0.29
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG12	1	0.29
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG13	1	0.29
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG21	1	0.29
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG22	1	0.29
(1,1646)	1:B:142:VAL:HA	1:B:142:VAL:HG23	1	0.29
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	1	0.29
(1,1612)	1:B:136:SER:H	1:B:135:SER:H	3	0.29
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	7	0.29
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	7	0.29
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	7	0.29
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	4	0.29
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	4	0.29
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	4	0.29
(1,1575)	1:B:132:THR:H	1:B:133:ILE:H	3	0.29
(1,1573)	1:B:132:THR:H	1:B:133:ILE:H	3	0.29
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	2	0.29
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	7	0.29
(1,1443)	1:B:119:HIS:HB3	1:B:119:HIS:HA	6	0.29
(1,1442)	1:B:119:HIS:HB3	1:B:119:HIS:HA	6	0.29
(1,1439)	1:B:119:HIS:HB2	1:B:119:HIS:HA	4	0.29
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	9	0.29
(1,1354)	1:B:113:PHE:H	1:B:112:GLY:H	4	0.29
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG21	7	0.29
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG22	7	0.29
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG23	7	0.29
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	7	0.29
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	8	0.29
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	8	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1236)	1:B:101:HIS:H	1:B:100:VAL:HA	3	0.29
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	5	0.29
(1,1202)	1:B:98:ILE:H	1:B:97:VAL:H	6	0.29
(1,1181)	1:B:96:ASP:HB2	1:B:96:ASP:H	9	0.29
(1,1181)	1:B:96:ASP:HB3	1:B:96:ASP:H	9	0.29
(1,1180)	1:B:96:ASP:HB2	1:B:96:ASP:H	9	0.29
(1,1180)	1:B:96:ASP:HB3	1:B:96:ASP:H	9	0.29
(1,1178)	1:B:96:ASP:HB2	1:B:96:ASP:H	9	0.29
(1,1178)	1:B:96:ASP:HB3	1:B:96:ASP:H	9	0.29
(1,1146)	1:B:92:LYS:H	1:B:99:GLU:H	5	0.29
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	2	0.29
(1,1126)	1:B:89:LEU:HD11	1:B:103:LYS:H	7	0.29
(1,1126)	1:B:89:LEU:HD12	1:B:103:LYS:H	7	0.29
(1,1126)	1:B:89:LEU:HD13	1:B:103:LYS:H	7	0.29
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	8	0.29
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	8	0.29
(1,947)	1:B:77:VAL:HA	1:B:68:MET:HA	4	0.28
(1,940)	1:B:76:SER:HB2	1:B:146:ASP:HB2	3	0.28
(1,937)	1:B:76:SER:HB2	1:B:146:ASP:HB2	3	0.28
(1,934)	1:B:76:SER:HB2	1:B:146:ASP:HB2	3	0.28
(1,921)	1:B:75:PHE:HD1	1:B:146:ASP:HB3	9	0.28
(1,921)	1:B:75:PHE:HD2	1:B:146:ASP:HB3	9	0.28
(1,905)	1:B:74:ARG:H	1:B:73:ASP:H	3	0.28
(1,904)	1:B:74:ARG:H	1:B:73:ASP:H	3	0.28
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB2	4	0.28
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB3	4	0.28
(1,895)	1:B:72:LYS:H	1:B:72:LYS:HA	2	0.28
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	1	0.28
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	6	0.28
(1,80)	1:A:77:VAL:HA	1:A:68:MET:HA	4	0.28
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	3	0.28
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	8	0.28
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	7	0.28
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	7	0.28
(1,73)	1:A:76:SER:HB2	1:A:146:ASP:HB2	3	0.28
(1,708)	1:A:132:THR:H	1:A:133:ILE:H	2	0.28
(1,706)	1:A:132:THR:H	1:A:133:ILE:H	2	0.28
(1,70)	1:A:76:SER:HB2	1:A:146:ASP:HB2	3	0.28
(1,695)	1:A:131:LEU:H	1:A:132:THR:H	2	0.28
(1,694)	1:A:131:LEU:H	1:A:132:THR:H	2	0.28
(1,67)	1:A:76:SER:HB2	1:A:146:ASP:HB2	3	0.28
(1,572)	1:A:119:HIS:HB2	1:A:119:HIS:HA	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:A:75:PHE:HD1	1:A:146:ASP:HB3	9	0.28
(1,54)	1:A:75:PHE:HD2	1:A:146:ASP:HB3	9	0.28
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	1	0.28
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	6	0.28
(1,491)	1:A:113:PHE:HA	1:A:113:PHE:HB3	7	0.28
(1,489)	1:A:113:PHE:HA	1:A:113:PHE:HB3	7	0.28
(1,469)	1:A:111:HIS:HB2	1:A:112:GLY:H	8	0.28
(1,469)	1:A:111:HIS:HB2	1:A:112:GLY:H	9	0.28
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	4	0.28
(1,419)	1:A:105:GLU:HA	1:A:116:ARG:H	3	0.28
(1,418)	1:A:105:GLU:HG2	1:A:115:SER:HB3	2	0.28
(1,418)	1:A:105:GLU:HG3	1:A:115:SER:HB3	2	0.28
(1,414)	1:A:105:GLU:HG2	1:A:105:GLU:H	4	0.28
(1,414)	1:A:105:GLU:HG3	1:A:105:GLU:H	4	0.28
(1,413)	1:A:105:GLU:HG2	1:A:105:GLU:H	4	0.28
(1,413)	1:A:105:GLU:HG3	1:A:105:GLU:H	4	0.28
(1,399)	1:A:103:LYS:HA	1:A:118:PHE:H	5	0.28
(1,390)	1:A:102:GLY:HA2	1:A:103:LYS:H	3	0.28
(1,38)	1:A:74:ARG:H	1:A:73:ASP:H	3	0.28
(1,37)	1:A:74:ARG:H	1:A:73:ASP:H	3	0.28
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	4	0.28
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	5	0.28
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB2	4	0.28
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB3	4	0.28
(1,306)	1:A:95:GLY:HA2	1:A:97:VAL:H	9	0.28
(1,281)	1:A:92:LYS:H	1:A:101:HIS:H	6	0.28
(1,28)	1:A:72:LYS:H	1:A:72:LYS:HA	2	0.28
(1,267)	1:A:90:LYS:HB2	1:A:101:HIS:HB3	1	0.28
(1,267)	1:A:90:LYS:HB3	1:A:101:HIS:HB3	1	0.28
(1,228)	1:A:87:GLU:H	1:A:88:GLU:H	4	0.28
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	5	0.28
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	5	0.28
(1,225)	1:A:87:GLU:H	1:A:88:GLU:H	4	0.28
(1,191)	1:A:84:PHE:HD1	1:A:82:LYS:H	8	0.28
(1,191)	1:A:84:PHE:HD2	1:A:82:LYS:H	8	0.28
(1,164)	1:A:81:VAL:HG21	1:A:84:PHE:H	1	0.28
(1,164)	1:A:81:VAL:HG22	1:A:84:PHE:H	1	0.28
(1,164)	1:A:81:VAL:HG23	1:A:84:PHE:H	1	0.28
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	3	0.28
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	8	0.28
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	7	0.28
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	7	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	4	0.28
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	4	0.28
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	4	0.28
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	3	0.28
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	3	0.28
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	3	0.28
(1,1586)	1:B:133:ILE:HG21	1:B:133:ILE:HA	8	0.28
(1,1586)	1:B:133:ILE:HG22	1:B:133:ILE:HA	8	0.28
(1,1586)	1:B:133:ILE:HG23	1:B:133:ILE:HA	8	0.28
(1,1575)	1:B:132:THR:H	1:B:133:ILE:H	2	0.28
(1,1573)	1:B:132:THR:H	1:B:133:ILE:H	2	0.28
(1,1562)	1:B:131:LEU:H	1:B:132:THR:H	2	0.28
(1,1561)	1:B:131:LEU:H	1:B:132:THR:H	2	0.28
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	7	0.28
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	7	0.28
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	7	0.28
(1,1439)	1:B:119:HIS:HB2	1:B:119:HIS:HA	7	0.28
(1,1439)	1:B:119:HIS:HB2	1:B:119:HIS:HA	9	0.28
(1,1358)	1:B:113:PHE:HA	1:B:113:PHE:HB3	7	0.28
(1,1356)	1:B:113:PHE:HA	1:B:113:PHE:HB3	7	0.28
(1,1336)	1:B:111:HIS:HB2	1:B:112:GLY:H	8	0.28
(1,1336)	1:B:111:HIS:HB2	1:B:112:GLY:H	9	0.28
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	4	0.28
(1,1286)	1:B:105:GLU:HA	1:B:116:ARG:H	3	0.28
(1,1285)	1:B:105:GLU:HG2	1:B:115:SER:HB3	2	0.28
(1,1285)	1:B:105:GLU:HG3	1:B:115:SER:HB3	2	0.28
(1,1281)	1:B:105:GLU:HG2	1:B:105:GLU:H	4	0.28
(1,1281)	1:B:105:GLU:HG3	1:B:105:GLU:H	4	0.28
(1,1280)	1:B:105:GLU:HG2	1:B:105:GLU:H	4	0.28
(1,1280)	1:B:105:GLU:HG3	1:B:105:GLU:H	4	0.28
(1,1266)	1:B:103:LYS:HA	1:B:118:PHE:H	5	0.28
(1,1257)	1:B:102:GLY:HA2	1:B:103:LYS:H	3	0.28
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	4	0.28
(1,1173)	1:B:95:GLY:HA2	1:B:97:VAL:H	9	0.28
(1,1148)	1:B:92:LYS:H	1:B:101:HIS:H	6	0.28
(1,1095)	1:B:87:GLU:H	1:B:88:GLU:H	4	0.28
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	5	0.28
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	5	0.28
(1,1092)	1:B:87:GLU:H	1:B:88:GLU:H	4	0.28
(1,1058)	1:B:84:PHE:HD1	1:B:82:LYS:H	8	0.28
(1,1058)	1:B:84:PHE:HD2	1:B:82:LYS:H	8	0.28
(1,1031)	1:B:81:VAL:HG21	1:B:84:PHE:H	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1031)	1:B:81:VAL:HG22	1:B:84:PHE:H	1	0.28
(1,1031)	1:B:81:VAL:HG23	1:B:84:PHE:H	1	0.28
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG11	8	0.27
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG12	8	0.27
(1,981)	1:B:77:VAL:HG21	1:B:145:VAL:HG13	8	0.27
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG11	8	0.27
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG12	8	0.27
(1,981)	1:B:77:VAL:HG22	1:B:145:VAL:HG13	8	0.27
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG11	8	0.27
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG12	8	0.27
(1,981)	1:B:77:VAL:HG23	1:B:145:VAL:HG13	8	0.27
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	2	0.27
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	2	0.27
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	2	0.27
(1,970)	1:B:77:VAL:H	1:B:78:ASN:H	2	0.27
(1,97)	1:A:77:VAL:HG21	1:A:77:VAL:H	5	0.27
(1,97)	1:A:77:VAL:HG22	1:A:77:VAL:H	5	0.27
(1,97)	1:A:77:VAL:HG23	1:A:77:VAL:H	5	0.27
(1,964)	1:B:77:VAL:HG21	1:B:77:VAL:H	5	0.27
(1,964)	1:B:77:VAL:HG22	1:B:77:VAL:H	5	0.27
(1,964)	1:B:77:VAL:HG23	1:B:77:VAL:H	5	0.27
(1,947)	1:B:77:VAL:HA	1:B:68:MET:HA	7	0.27
(1,913)	1:B:75:PHE:HA	1:B:75:PHE:HB2	2	0.27
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	9	0.27
(1,829)	1:A:146:ASP:H	1:A:134:THR:H	2	0.27
(1,828)	1:A:146:ASP:H	1:A:134:THR:H	2	0.27
(1,827)	1:A:146:ASP:HB3	1:A:76:SER:HA	5	0.27
(1,826)	1:A:146:ASP:HB3	1:A:76:SER:HA	5	0.27
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	6	0.27
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	6	0.27
(1,812)	1:A:145:VAL:HB	1:A:135:SER:HA	9	0.27
(1,80)	1:A:77:VAL:HA	1:A:68:MET:HA	7	0.27
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	2	0.27
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	5	0.27
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	5	0.27
(1,749)	1:A:136:SER:HA	1:A:137:LEU:H	1	0.27
(1,749)	1:A:136:SER:HA	1:A:137:LEU:H	4	0.27
(1,749)	1:A:136:SER:HA	1:A:137:LEU:H	8	0.27
(1,745)	1:A:136:SER:H	1:A:135:SER:H	5	0.27
(1,745)	1:A:136:SER:H	1:A:135:SER:H	6	0.27
(1,729)	1:A:134:THR:H	1:A:134:THR:HG21	7	0.27
(1,729)	1:A:134:THR:H	1:A:134:THR:HG22	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,729)	1:A:134:THR:H	1:A:134:THR:HG23	7	0.27
(1,728)	1:A:133:ILE:HG12	1:A:147:GLY:HA2	8	0.27
(1,728)	1:A:133:ILE:HG13	1:A:147:GLY:HA2	8	0.27
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	3	0.27
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	3	0.27
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	3	0.27
(1,719)	1:A:133:ILE:HG21	1:A:133:ILE:HA	8	0.27
(1,719)	1:A:133:ILE:HG22	1:A:133:ILE:HA	8	0.27
(1,719)	1:A:133:ILE:HG23	1:A:133:ILE:HA	8	0.27
(1,708)	1:A:132:THR:H	1:A:133:ILE:H	9	0.27
(1,706)	1:A:132:THR:H	1:A:133:ILE:H	9	0.27
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	8	0.27
(1,573)	1:A:119:HIS:HA	1:A:119:HIS:HD2	9	0.27
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	6	0.27
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	8	0.27
(1,513)	1:A:114:ILE:HA	1:A:114:ILE:HB	4	0.27
(1,501)	1:A:114:ILE:HD11	1:A:104:HIS:HE1	3	0.27
(1,501)	1:A:114:ILE:HD12	1:A:104:HIS:HE1	3	0.27
(1,501)	1:A:114:ILE:HD13	1:A:104:HIS:HE1	3	0.27
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	9	0.27
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD1	1	0.27
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD2	1	0.27
(1,487)	1:A:113:PHE:H	1:A:112:GLY:H	7	0.27
(1,482)	1:A:113:PHE:HD1	1:A:107:ARG:HA	8	0.27
(1,482)	1:A:113:PHE:HD2	1:A:107:ARG:HA	8	0.27
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB2	5	0.27
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB3	5	0.27
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	4	0.27
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	5	0.27
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	7	0.27
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	2	0.27
(1,332)	1:A:97:VAL:HA	1:A:124:ILE:HG12	3	0.27
(1,332)	1:A:97:VAL:HA	1:A:124:ILE:HG13	3	0.27
(1,292)	1:A:94:LEU:HD11	1:A:95:GLY:H	3	0.27
(1,292)	1:A:94:LEU:HD12	1:A:95:GLY:H	3	0.27
(1,292)	1:A:94:LEU:HD13	1:A:95:GLY:H	3	0.27
(1,292)	1:A:94:LEU:HD21	1:A:95:GLY:H	3	0.27
(1,292)	1:A:94:LEU:HD22	1:A:95:GLY:H	3	0.27
(1,292)	1:A:94:LEU:HD23	1:A:95:GLY:H	3	0.27
(1,280)	1:A:92:LYS:H	1:A:100:VAL:HA	6	0.27
(1,275)	1:A:92:LYS:H	1:A:92:LYS:HG2	4	0.27
(1,275)	1:A:92:LYS:H	1:A:92:LYS:HG3	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,267)	1:A:90:LYS:HB2	1:A:101:HIS:HB3	8	0.27
(1,267)	1:A:90:LYS:HB3	1:A:101:HIS:HB3	8	0.27
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	9	0.27
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	2	0.27
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	2	0.27
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	9	0.27
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	9	0.27
(1,216)	1:A:85:SER:HB2	1:A:89:LEU:H	4	0.27
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	9	0.27
(1,1696)	1:B:146:ASP:H	1:B:134:THR:H	2	0.27
(1,1695)	1:B:146:ASP:H	1:B:134:THR:H	2	0.27
(1,1694)	1:B:146:ASP:HB3	1:B:76:SER:HA	5	0.27
(1,1693)	1:B:146:ASP:HB3	1:B:76:SER:HA	5	0.27
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	6	0.27
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	6	0.27
(1,1679)	1:B:145:VAL:HB	1:B:135:SER:HA	9	0.27
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	2	0.27
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	5	0.27
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	5	0.27
(1,1616)	1:B:136:SER:HA	1:B:137:LEU:H	1	0.27
(1,1616)	1:B:136:SER:HA	1:B:137:LEU:H	4	0.27
(1,1616)	1:B:136:SER:HA	1:B:137:LEU:H	8	0.27
(1,1612)	1:B:136:SER:H	1:B:135:SER:H	5	0.27
(1,1612)	1:B:136:SER:H	1:B:135:SER:H	6	0.27
(1,1595)	1:B:133:ILE:HG12	1:B:147:GLY:HA2	8	0.27
(1,1595)	1:B:133:ILE:HG13	1:B:147:GLY:HA2	8	0.27
(1,1575)	1:B:132:THR:H	1:B:133:ILE:H	9	0.27
(1,1573)	1:B:132:THR:H	1:B:133:ILE:H	9	0.27
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	8	0.27
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	6	0.27
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	8	0.27
(1,1380)	1:B:114:ILE:HA	1:B:114:ILE:HB	4	0.27
(1,138)	1:A:79:LEU:HD11	1:A:79:LEU:HA	2	0.27
(1,138)	1:A:79:LEU:HD12	1:A:79:LEU:HA	2	0.27
(1,138)	1:A:79:LEU:HD13	1:A:79:LEU:HA	2	0.27
(1,138)	1:A:79:LEU:HD21	1:A:79:LEU:HA	2	0.27
(1,138)	1:A:79:LEU:HD22	1:A:79:LEU:HA	2	0.27
(1,138)	1:A:79:LEU:HD23	1:A:79:LEU:HA	2	0.27
(1,1368)	1:B:114:ILE:HD11	1:B:104:HIS:HE1	3	0.27
(1,1368)	1:B:114:ILE:HD12	1:B:104:HIS:HE1	3	0.27
(1,1368)	1:B:114:ILE:HD13	1:B:104:HIS:HE1	3	0.27
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD1	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD2	1	0.27
(1,1354)	1:B:113:PHE:H	1:B:112:GLY:H	7	0.27
(1,1349)	1:B:113:PHE:HD1	1:B:107:ARG:HA	8	0.27
(1,1349)	1:B:113:PHE:HD2	1:B:107:ARG:HA	8	0.27
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	4	0.27
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	7	0.27
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	2	0.27
(1,1199)	1:B:97:VAL:HA	1:B:124:ILE:HG12	3	0.27
(1,1199)	1:B:97:VAL:HA	1:B:124:ILE:HG13	3	0.27
(1,1159)	1:B:94:LEU:HD11	1:B:95:GLY:H	3	0.27
(1,1159)	1:B:94:LEU:HD12	1:B:95:GLY:H	3	0.27
(1,1159)	1:B:94:LEU:HD13	1:B:95:GLY:H	3	0.27
(1,1159)	1:B:94:LEU:HD21	1:B:95:GLY:H	3	0.27
(1,1159)	1:B:94:LEU:HD22	1:B:95:GLY:H	3	0.27
(1,1159)	1:B:94:LEU:HD23	1:B:95:GLY:H	3	0.27
(1,1147)	1:B:92:LYS:H	1:B:100:VAL:HA	6	0.27
(1,1142)	1:B:92:LYS:H	1:B:92:LYS:HG2	4	0.27
(1,1142)	1:B:92:LYS:H	1:B:92:LYS:HG3	4	0.27
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG11	8	0.27
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG12	8	0.27
(1,114)	1:A:77:VAL:HG21	1:A:145:VAL:HG13	8	0.27
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG11	8	0.27
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG12	8	0.27
(1,114)	1:A:77:VAL:HG22	1:A:145:VAL:HG13	8	0.27
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG11	8	0.27
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG12	8	0.27
(1,114)	1:A:77:VAL:HG23	1:A:145:VAL:HG13	8	0.27
(1,1134)	1:B:90:LYS:HB2	1:B:101:HIS:HB3	1	0.27
(1,1134)	1:B:90:LYS:HB3	1:B:101:HIS:HB3	1	0.27
(1,1134)	1:B:90:LYS:HB2	1:B:101:HIS:HB3	8	0.27
(1,1134)	1:B:90:LYS:HB3	1:B:101:HIS:HB3	8	0.27
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	9	0.27
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	2	0.27
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	2	0.27
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	9	0.27
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	9	0.27
(1,1083)	1:B:85:SER:HB2	1:B:89:LEU:H	4	0.27
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	2	0.27
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	2	0.27
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	2	0.27
(1,103)	1:A:77:VAL:H	1:A:78:ASN:H	2	0.27
(1,1005)	1:B:79:LEU:HD11	1:B:79:LEU:HA	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1005)	1:B:79:LEU:HD12	1:B:79:LEU:HA	2	0.27
(1,1005)	1:B:79:LEU:HD13	1:B:79:LEU:HA	2	0.27
(1,1005)	1:B:79:LEU:HD21	1:B:79:LEU:HA	2	0.27
(1,1005)	1:B:79:LEU:HD22	1:B:79:LEU:HA	2	0.27
(1,1005)	1:B:79:LEU:HD23	1:B:79:LEU:HA	2	0.27
(1,996)	1:B:78:ASN:HB3	1:B:79:LEU:H	4	0.26
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD11	9	0.26
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD12	9	0.26
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD13	9	0.26
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD21	9	0.26
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD22	9	0.26
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD23	9	0.26
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	6	0.26
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	6	0.26
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	6	0.26
(1,97)	1:A:77:VAL:HG21	1:A:77:VAL:H	1	0.26
(1,97)	1:A:77:VAL:HG22	1:A:77:VAL:H	1	0.26
(1,97)	1:A:77:VAL:HG23	1:A:77:VAL:H	1	0.26
(1,940)	1:B:76:SER:HB2	1:B:146:ASP:HB2	9	0.26
(1,937)	1:B:76:SER:HB2	1:B:146:ASP:HB2	9	0.26
(1,934)	1:B:76:SER:HB2	1:B:146:ASP:HB2	9	0.26
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	7	0.26
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	7	0.26
(1,827)	1:A:146:ASP:HB3	1:A:76:SER:HA	4	0.26
(1,826)	1:A:146:ASP:HB3	1:A:76:SER:HA	4	0.26
(1,817)	1:A:145:VAL:HB	1:A:145:VAL:H	6	0.26
(1,808)	1:A:144:THR:H	1:A:145:VAL:H	8	0.26
(1,803)	1:A:144:THR:H	1:A:145:VAL:H	8	0.26
(1,785)	1:A:142:VAL:HG11	1:A:143:LEU:H	6	0.26
(1,785)	1:A:142:VAL:HG12	1:A:143:LEU:H	6	0.26
(1,785)	1:A:142:VAL:HG13	1:A:143:LEU:H	6	0.26
(1,785)	1:A:142:VAL:HG21	1:A:143:LEU:H	6	0.26
(1,785)	1:A:142:VAL:HG22	1:A:143:LEU:H	6	0.26
(1,785)	1:A:142:VAL:HG23	1:A:143:LEU:H	6	0.26
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	6	0.26
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	3	0.26
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	3	0.26
(1,73)	1:A:76:SER:HB2	1:A:146:ASP:HB2	9	0.26
(1,70)	1:A:76:SER:HB2	1:A:146:ASP:HB2	9	0.26
(1,67)	1:A:76:SER:HB2	1:A:146:ASP:HB2	9	0.26
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	3	0.26
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	3	0.26
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	3	0.26
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD2	5	0.26
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD3	5	0.26
(1,600)	1:A:122:TYR:HA	1:A:123:ARG:HB3	8	0.26
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	2	0.26
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	2	0.26
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	2	0.26
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	2	0.26
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD11	9	0.26
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD12	9	0.26
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD13	9	0.26
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD11	9	0.26
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD12	9	0.26
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD13	9	0.26
(1,579)	1:A:119:HIS:H	1:A:120:ARG:H	5	0.26
(1,576)	1:A:119:HIS:HB3	1:A:119:HIS:HA	2	0.26
(1,575)	1:A:119:HIS:HB3	1:A:119:HIS:HA	2	0.26
(1,550)	1:A:118:PHE:HE1	1:A:102:GLY:H	7	0.26
(1,550)	1:A:118:PHE:HE2	1:A:102:GLY:H	7	0.26
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	7	0.26
(1,487)	1:A:113:PHE:H	1:A:112:GLY:H	2	0.26
(1,469)	1:A:111:HIS:HB2	1:A:112:GLY:H	2	0.26
(1,46)	1:A:75:PHE:HA	1:A:75:PHE:HB2	2	0.26
(1,405)	1:A:104:HIS:HB3	1:A:104:HIS:HA	3	0.26
(1,404)	1:A:104:HIS:HB3	1:A:104:HIS:HA	3	0.26
(1,390)	1:A:102:GLY:HA2	1:A:103:LYS:H	9	0.26
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	8	0.26
(1,289)	1:A:94:LEU:H	1:A:93:VAL:HB	2	0.26
(1,289)	1:A:94:LEU:H	1:A:93:VAL:HB	6	0.26
(1,289)	1:A:94:LEU:H	1:A:93:VAL:HB	9	0.26
(1,281)	1:A:92:LYS:H	1:A:101:HIS:H	3	0.26
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	6	0.26
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	7	0.26
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	1	0.26
(1,218)	1:A:86:PRO:HB2	1:A:85:SER:HA	4	0.26
(1,218)	1:A:86:PRO:HB3	1:A:85:SER:HA	4	0.26
(1,1760)	1:A:120:ARG:HB2	1:B:111:HIS:H	2	0.26
(1,1760)	1:A:120:ARG:HB3	1:B:111:HIS:H	2	0.26
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	4	0.26
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	6	0.26
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	6	0.26
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	7	0.26
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	7	0.26
(1,1694)	1:B:146:ASP:HB3	1:B:76:SER:HA	4	0.26
(1,1693)	1:B:146:ASP:HB3	1:B:76:SER:HA	4	0.26
(1,1684)	1:B:145:VAL:HB	1:B:145:VAL:H	6	0.26
(1,1652)	1:B:142:VAL:HG11	1:B:143:LEU:H	6	0.26
(1,1652)	1:B:142:VAL:HG12	1:B:143:LEU:H	6	0.26
(1,1652)	1:B:142:VAL:HG13	1:B:143:LEU:H	6	0.26
(1,1652)	1:B:142:VAL:HG21	1:B:143:LEU:H	6	0.26
(1,1652)	1:B:142:VAL:HG22	1:B:143:LEU:H	6	0.26
(1,1652)	1:B:142:VAL:HG23	1:B:143:LEU:H	6	0.26
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	6	0.26
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	3	0.26
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	3	0.26
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	1	0.26
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG21	7	0.26
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG22	7	0.26
(1,1596)	1:B:134:THR:H	1:B:134:THR:HG23	7	0.26
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	1	0.26
(1,1553)	1:B:129:ASP:H	1:B:132:THR:HG1	7	0.26
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	3	0.26
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	3	0.26
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	3	0.26
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	3	0.26
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD2	5	0.26
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD3	5	0.26
(1,1467)	1:B:122:TYR:HA	1:B:123:ARG:HB3	8	0.26
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	2	0.26
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	2	0.26
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	2	0.26
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	2	0.26
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD11	9	0.26
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD12	9	0.26
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD13	9	0.26
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD11	9	0.26
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD12	9	0.26
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD13	9	0.26
(1,1446)	1:B:119:HIS:H	1:B:120:ARG:H	5	0.26
(1,1443)	1:B:119:HIS:HB3	1:B:119:HIS:HA	2	0.26
(1,1442)	1:B:119:HIS:HB3	1:B:119:HIS:HA	2	0.26
(1,1417)	1:B:118:PHE:HE1	1:B:102:GLY:H	7	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1417)	1:B:118:PHE:HE2	1:B:102:GLY:H	7	0.26
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	7	0.26
(1,138)	1:A:79:LEU:HD11	1:A:79:LEU:HA	4	0.26
(1,138)	1:A:79:LEU:HD12	1:A:79:LEU:HA	4	0.26
(1,138)	1:A:79:LEU:HD13	1:A:79:LEU:HA	4	0.26
(1,138)	1:A:79:LEU:HD21	1:A:79:LEU:HA	4	0.26
(1,138)	1:A:79:LEU:HD22	1:A:79:LEU:HA	4	0.26
(1,138)	1:A:79:LEU:HD23	1:A:79:LEU:HA	4	0.26
(1,1354)	1:B:113:PHE:H	1:B:112:GLY:H	2	0.26
(1,1336)	1:B:111:HIS:HB2	1:B:112:GLY:H	2	0.26
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB2	5	0.26
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB3	5	0.26
(1,129)	1:A:78:ASN:HB3	1:A:79:LEU:H	4	0.26
(1,1278)	1:B:105:GLU:HB2	1:B:105:GLU:H	2	0.26
(1,1278)	1:B:105:GLU:HB3	1:B:105:GLU:H	2	0.26
(1,1272)	1:B:104:HIS:HB3	1:B:104:HIS:HA	3	0.26
(1,1271)	1:B:104:HIS:HB3	1:B:104:HIS:HA	3	0.26
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD11	9	0.26
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD12	9	0.26
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD13	9	0.26
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD21	9	0.26
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD22	9	0.26
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD23	9	0.26
(1,1257)	1:B:102:GLY:HA2	1:B:103:LYS:H	9	0.26
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	5	0.26
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	8	0.26
(1,1156)	1:B:94:LEU:H	1:B:93:VAL:HB	2	0.26
(1,1156)	1:B:94:LEU:H	1:B:93:VAL:HB	6	0.26
(1,1156)	1:B:94:LEU:H	1:B:93:VAL:HB	9	0.26
(1,1152)	1:B:93:VAL:HG11	1:B:93:VAL:H	8	0.26
(1,1152)	1:B:93:VAL:HG12	1:B:93:VAL:H	8	0.26
(1,1152)	1:B:93:VAL:HG13	1:B:93:VAL:H	8	0.26
(1,1152)	1:B:93:VAL:HG21	1:B:93:VAL:H	8	0.26
(1,1152)	1:B:93:VAL:HG22	1:B:93:VAL:H	8	0.26
(1,1152)	1:B:93:VAL:HG23	1:B:93:VAL:H	8	0.26
(1,1148)	1:B:92:LYS:H	1:B:101:HIS:H	3	0.26
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	6	0.26
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	7	0.26
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	1	0.26
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	4	0.26
(1,1085)	1:B:86:PRO:HB2	1:B:85:SER:HA	4	0.26
(1,1085)	1:B:86:PRO:HB3	1:B:85:SER:HA	4	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	4	0.26
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	6	0.26
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	4	0.26
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	6	0.26
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	1	0.26
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	1	0.26
(1,1005)	1:B:79:LEU:HD11	1:B:79:LEU:HA	4	0.26
(1,1005)	1:B:79:LEU:HD12	1:B:79:LEU:HA	4	0.26
(1,1005)	1:B:79:LEU:HD13	1:B:79:LEU:HA	4	0.26
(1,1005)	1:B:79:LEU:HD21	1:B:79:LEU:HA	4	0.26
(1,1005)	1:B:79:LEU:HD22	1:B:79:LEU:HA	4	0.26
(1,1005)	1:B:79:LEU:HD23	1:B:79:LEU:HA	4	0.26
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	1	0.25
(1,987)	1:B:78:ASN:HA	1:B:78:ASN:HB3	7	0.25
(1,964)	1:B:77:VAL:HG21	1:B:77:VAL:H	1	0.25
(1,964)	1:B:77:VAL:HG22	1:B:77:VAL:H	1	0.25
(1,964)	1:B:77:VAL:HG23	1:B:77:VAL:H	1	0.25
(1,940)	1:B:76:SER:HB2	1:B:146:ASP:HB2	8	0.25
(1,937)	1:B:76:SER:HB2	1:B:146:ASP:HB2	8	0.25
(1,934)	1:B:76:SER:HB2	1:B:146:ASP:HB2	8	0.25
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB2	8	0.25
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB3	8	0.25
(1,895)	1:B:72:LYS:H	1:B:72:LYS:HA	8	0.25
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	5	0.25
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	5	0.25
(1,811)	1:A:145:VAL:HB	1:A:77:VAL:HB	3	0.25
(1,810)	1:A:144:THR:HG21	1:A:146:ASP:HB2	1	0.25
(1,810)	1:A:144:THR:HG22	1:A:146:ASP:HB2	1	0.25
(1,810)	1:A:144:THR:HG23	1:A:146:ASP:HB2	1	0.25
(1,809)	1:A:144:THR:HG21	1:A:146:ASP:HB3	6	0.25
(1,809)	1:A:144:THR:HG22	1:A:146:ASP:HB3	6	0.25
(1,809)	1:A:144:THR:HG23	1:A:146:ASP:HB3	6	0.25
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	7	0.25
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	4	0.25
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	4	0.25
(1,749)	1:A:136:SER:HA	1:A:137:LEU:H	6	0.25
(1,745)	1:A:136:SER:H	1:A:135:SER:H	1	0.25
(1,73)	1:A:76:SER:HB2	1:A:146:ASP:HB2	8	0.25
(1,728)	1:A:133:ILE:HG12	1:A:147:GLY:HA2	7	0.25
(1,728)	1:A:133:ILE:HG13	1:A:147:GLY:HA2	7	0.25
(1,70)	1:A:76:SER:HB2	1:A:146:ASP:HB2	8	0.25
(1,67)	1:A:76:SER:HB2	1:A:146:ASP:HB2	8	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,614)	1:A:124:ILE:HD11	1:A:96:ASP:H	4	0.25
(1,614)	1:A:124:ILE:HD12	1:A:96:ASP:H	4	0.25
(1,614)	1:A:124:ILE:HD13	1:A:96:ASP:H	4	0.25
(1,595)	1:A:122:TYR:HD1	1:A:122:TYR:H	6	0.25
(1,595)	1:A:122:TYR:HD2	1:A:122:TYR:H	6	0.25
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	9	0.25
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD11	5	0.25
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD12	5	0.25
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD13	5	0.25
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD11	5	0.25
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD12	5	0.25
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD13	5	0.25
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	1	0.25
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	5	0.25
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD1	4	0.25
(1,494)	1:A:113:PHE:HA	1:A:113:PHE:HD2	4	0.25
(1,485)	1:A:113:PHE:HA	1:A:108:GLN:HA	7	0.25
(1,470)	1:A:111:HIS:HA	1:A:112:GLY:H	5	0.25
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	4	0.25
(1,430)	1:A:107:ARG:H	1:A:108:GLN:H	6	0.25
(1,414)	1:A:105:GLU:HG2	1:A:105:GLU:H	2	0.25
(1,414)	1:A:105:GLU:HG3	1:A:105:GLU:H	2	0.25
(1,413)	1:A:105:GLU:HG2	1:A:105:GLU:H	2	0.25
(1,413)	1:A:105:GLU:HG3	1:A:105:GLU:H	2	0.25
(1,411)	1:A:105:GLU:HB2	1:A:105:GLU:H	2	0.25
(1,411)	1:A:105:GLU:HB3	1:A:105:GLU:H	2	0.25
(1,407)	1:A:104:HIS:HA	1:A:105:GLU:H	3	0.25
(1,395)	1:A:103:LYS:HG2	1:A:103:LYS:H	9	0.25
(1,395)	1:A:103:LYS:HG3	1:A:103:LYS:H	9	0.25
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	7	0.25
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	3	0.25
(1,314)	1:A:96:ASP:HB2	1:A:96:ASP:H	6	0.25
(1,314)	1:A:96:ASP:HB3	1:A:96:ASP:H	6	0.25
(1,313)	1:A:96:ASP:HB2	1:A:96:ASP:H	6	0.25
(1,313)	1:A:96:ASP:HB3	1:A:96:ASP:H	6	0.25
(1,311)	1:A:96:ASP:HB2	1:A:96:ASP:H	6	0.25
(1,311)	1:A:96:ASP:HB3	1:A:96:ASP:H	6	0.25
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB2	8	0.25
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB3	8	0.25
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	4	0.25
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	5	0.25
(1,285)	1:A:93:VAL:HG11	1:A:93:VAL:H	8	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:A:93:VAL:HG12	1:A:93:VAL:H	8	0.25
(1,285)	1:A:93:VAL:HG13	1:A:93:VAL:H	8	0.25
(1,285)	1:A:93:VAL:HG21	1:A:93:VAL:H	8	0.25
(1,285)	1:A:93:VAL:HG22	1:A:93:VAL:H	8	0.25
(1,285)	1:A:93:VAL:HG23	1:A:93:VAL:H	8	0.25
(1,28)	1:A:72:LYS:H	1:A:72:LYS:HA	8	0.25
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	9	0.25
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	6	0.25
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	8	0.25
(1,267)	1:A:90:LYS:HB2	1:A:101:HIS:HB3	6	0.25
(1,267)	1:A:90:LYS:HB3	1:A:101:HIS:HB3	6	0.25
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	4	0.25
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	9	0.25
(1,242)	1:A:89:LEU:H	1:A:88:GLU:H	4	0.25
(1,241)	1:A:89:LEU:H	1:A:88:GLU:H	4	0.25
(1,226)	1:A:87:GLU:HG2	1:A:88:GLU:H	1	0.25
(1,226)	1:A:87:GLU:HG3	1:A:88:GLU:H	1	0.25
(1,216)	1:A:85:SER:HB2	1:A:89:LEU:H	2	0.25
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG2	2	0.25
(1,210)	1:A:85:SER:HB2	1:A:87:GLU:HG3	2	0.25
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	8	0.25
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	8	0.25
(1,185)	1:A:83:HIS:HB3	1:A:104:HIS:HB2	2	0.25
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	5	0.25
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	5	0.25
(1,1678)	1:B:145:VAL:HB	1:B:77:VAL:HB	3	0.25
(1,1677)	1:B:144:THR:HG21	1:B:146:ASP:HB2	1	0.25
(1,1677)	1:B:144:THR:HG22	1:B:146:ASP:HB2	1	0.25
(1,1677)	1:B:144:THR:HG23	1:B:146:ASP:HB2	1	0.25
(1,1676)	1:B:144:THR:HG21	1:B:146:ASP:HB3	6	0.25
(1,1676)	1:B:144:THR:HG22	1:B:146:ASP:HB3	6	0.25
(1,1676)	1:B:144:THR:HG23	1:B:146:ASP:HB3	6	0.25
(1,1675)	1:B:144:THR:H	1:B:145:VAL:H	8	0.25
(1,1670)	1:B:144:THR:H	1:B:145:VAL:H	8	0.25
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	7	0.25
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	4	0.25
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	4	0.25
(1,1616)	1:B:136:SER:HA	1:B:137:LEU:H	6	0.25
(1,1612)	1:B:136:SER:H	1:B:135:SER:H	1	0.25
(1,1595)	1:B:133:ILE:HG12	1:B:147:GLY:HA2	7	0.25
(1,1595)	1:B:133:ILE:HG13	1:B:147:GLY:HA2	7	0.25
(1,1462)	1:B:122:TYR:HD1	1:B:122:TYR:H	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1462)	1:B:122:TYR:HD2	1:B:122:TYR:H	6	0.25
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	9	0.25
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	1	0.25
(1,138)	1:A:79:LEU:HD11	1:A:79:LEU:HA	3	0.25
(1,138)	1:A:79:LEU:HD12	1:A:79:LEU:HA	3	0.25
(1,138)	1:A:79:LEU:HD13	1:A:79:LEU:HA	3	0.25
(1,138)	1:A:79:LEU:HD21	1:A:79:LEU:HA	3	0.25
(1,138)	1:A:79:LEU:HD22	1:A:79:LEU:HA	3	0.25
(1,138)	1:A:79:LEU:HD23	1:A:79:LEU:HA	3	0.25
(1,1352)	1:B:113:PHE:HA	1:B:108:GLN:HA	7	0.25
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	4	0.25
(1,1297)	1:B:107:ARG:H	1:B:108:GLN:H	6	0.25
(1,1281)	1:B:105:GLU:HG2	1:B:105:GLU:H	2	0.25
(1,1281)	1:B:105:GLU:HG3	1:B:105:GLU:H	2	0.25
(1,1280)	1:B:105:GLU:HG2	1:B:105:GLU:H	2	0.25
(1,1280)	1:B:105:GLU:HG3	1:B:105:GLU:H	2	0.25
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	1	0.25
(1,1274)	1:B:104:HIS:HA	1:B:105:GLU:H	3	0.25
(1,1262)	1:B:103:LYS:HG2	1:B:103:LYS:H	9	0.25
(1,1262)	1:B:103:LYS:HG3	1:B:103:LYS:H	9	0.25
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	7	0.25
(1,120)	1:A:78:ASN:HA	1:A:78:ASN:HB3	7	0.25
(1,1181)	1:B:96:ASP:HB2	1:B:96:ASP:H	6	0.25
(1,1181)	1:B:96:ASP:HB3	1:B:96:ASP:H	6	0.25
(1,1180)	1:B:96:ASP:HB2	1:B:96:ASP:H	6	0.25
(1,1180)	1:B:96:ASP:HB3	1:B:96:ASP:H	6	0.25
(1,1178)	1:B:96:ASP:HB2	1:B:96:ASP:H	6	0.25
(1,1178)	1:B:96:ASP:HB3	1:B:96:ASP:H	6	0.25
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	4	0.25
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	5	0.25
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	9	0.25
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	6	0.25
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	8	0.25
(1,1134)	1:B:90:LYS:HB2	1:B:101:HIS:HB3	6	0.25
(1,1134)	1:B:90:LYS:HB3	1:B:101:HIS:HB3	6	0.25
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	9	0.25
(1,1109)	1:B:89:LEU:H	1:B:88:GLU:H	4	0.25
(1,1108)	1:B:89:LEU:H	1:B:88:GLU:H	4	0.25
(1,1093)	1:B:87:GLU:HG2	1:B:88:GLU:H	1	0.25
(1,1093)	1:B:87:GLU:HG3	1:B:88:GLU:H	1	0.25
(1,1083)	1:B:85:SER:HB2	1:B:89:LEU:H	2	0.25
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG2	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1077)	1:B:85:SER:HB2	1:B:87:GLU:HG3	2	0.25
(1,1052)	1:B:83:HIS:HB3	1:B:104:HIS:HB2	2	0.25
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	6	0.25
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	6	0.25
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	6	0.25
(1,1005)	1:B:79:LEU:HD11	1:B:79:LEU:HA	3	0.25
(1,1005)	1:B:79:LEU:HD12	1:B:79:LEU:HA	3	0.25
(1,1005)	1:B:79:LEU:HD13	1:B:79:LEU:HA	3	0.25
(1,1005)	1:B:79:LEU:HD21	1:B:79:LEU:HA	3	0.25
(1,1005)	1:B:79:LEU:HD22	1:B:79:LEU:HA	3	0.25
(1,1005)	1:B:79:LEU:HD23	1:B:79:LEU:HA	3	0.25
(1,987)	1:B:78:ASN:HA	1:B:78:ASN:HB3	8	0.24
(1,974)	1:B:77:VAL:HG11	1:B:79:LEU:HG	6	0.24
(1,974)	1:B:77:VAL:HG12	1:B:79:LEU:HG	6	0.24
(1,974)	1:B:77:VAL:HG13	1:B:79:LEU:HG	6	0.24
(1,942)	1:B:76:SER:HB3	1:B:146:ASP:HB3	1	0.24
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB2	1	0.24
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB3	1	0.24
(1,870)	1:B:66:SER:HB2	1:B:66:SER:H	2	0.24
(1,847)	1:A:147:GLY:HA2	1:A:147:GLY:H	4	0.24
(1,814)	1:A:145:VAL:HG11	1:A:135:SER:H	3	0.24
(1,814)	1:A:145:VAL:HG12	1:A:135:SER:H	3	0.24
(1,814)	1:A:145:VAL:HG13	1:A:135:SER:H	3	0.24
(1,812)	1:A:145:VAL:HB	1:A:135:SER:HA	2	0.24
(1,811)	1:A:145:VAL:HB	1:A:77:VAL:HB	4	0.24
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD11	9	0.24
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD12	9	0.24
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD13	9	0.24
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD21	9	0.24
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD22	9	0.24
(1,798)	1:A:144:THR:H	1:A:143:LEU:HD23	9	0.24
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	5	0.24
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	9	0.24
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD11	6	0.24
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD12	6	0.24
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD13	6	0.24
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD21	6	0.24
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD22	6	0.24
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD23	6	0.24
(1,75)	1:A:76:SER:HB3	1:A:146:ASP:HB3	1	0.24
(1,715)	1:A:133:ILE:HD11	1:A:130:PRO:HG2	9	0.24
(1,715)	1:A:133:ILE:HD11	1:A:130:PRO:HG3	9	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,715)	1:A:133:ILE:HD12	1:A:130:PRO:HG2	9	0.24
(1,715)	1:A:133:ILE:HD12	1:A:130:PRO:HG3	9	0.24
(1,715)	1:A:133:ILE:HD13	1:A:130:PRO:HG2	9	0.24
(1,715)	1:A:133:ILE:HD13	1:A:130:PRO:HG3	9	0.24
(1,592)	1:A:122:TYR:HA	1:A:122:TYR:HD1	2	0.24
(1,592)	1:A:122:TYR:HA	1:A:122:TYR:HD2	2	0.24
(1,569)	1:A:119:HIS:HA	1:A:101:HIS:HA	6	0.24
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	7	0.24
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	7	0.24
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	7	0.24
(1,470)	1:A:111:HIS:HA	1:A:112:GLY:H	7	0.24
(1,427)	1:A:107:ARG:HB3	1:A:107:ARG:H	9	0.24
(1,415)	1:A:105:GLU:HA	1:A:106:GLU:H	8	0.24
(1,369)	1:A:101:HIS:H	1:A:100:VAL:HA	6	0.24
(1,369)	1:A:101:HIS:H	1:A:100:VAL:HA	9	0.24
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	4	0.24
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG2	7	0.24
(1,355)	1:A:99:GLU:HB2	1:A:121:LYS:HG3	7	0.24
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG2	7	0.24
(1,355)	1:A:99:GLU:HB3	1:A:121:LYS:HG3	7	0.24
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	2	0.24
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	6	0.24
(1,346)	1:A:98:ILE:H	1:A:122:TYR:H	5	0.24
(1,346)	1:A:98:ILE:H	1:A:122:TYR:H	6	0.24
(1,345)	1:A:98:ILE:H	1:A:122:TYR:H	5	0.24
(1,345)	1:A:98:ILE:H	1:A:122:TYR:H	6	0.24
(1,320)	1:A:96:ASP:HA	1:A:124:ILE:H	5	0.24
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB2	1	0.24
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB3	1	0.24
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	1	0.24
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	2	0.24
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	6	0.24
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	7	0.24
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	9	0.24
(1,3)	1:A:66:SER:HB2	1:A:66:SER:H	2	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD11	3	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD12	3	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD13	3	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD21	3	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD22	3	0.24
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD23	3	0.24
(1,289)	1:A:94:LEU:H	1:A:93:VAL:HB	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	5	0.24
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	4	0.24
(1,275)	1:A:92:LYS:H	1:A:92:LYS:HG2	8	0.24
(1,275)	1:A:92:LYS:H	1:A:92:LYS:HG3	8	0.24
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	2	0.24
(1,267)	1:A:90:LYS:HB2	1:A:101:HIS:HB3	7	0.24
(1,267)	1:A:90:LYS:HB3	1:A:101:HIS:HB3	7	0.24
(1,266)	1:A:90:LYS:HB2	1:A:101:HIS:HB2	9	0.24
(1,266)	1:A:90:LYS:HB3	1:A:101:HIS:HB2	9	0.24
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	6	0.24
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	7	0.24
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	5	0.24
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	5	0.24
(1,1714)	1:B:147:GLY:HA2	1:B:147:GLY:H	4	0.24
(1,1681)	1:B:145:VAL:HG11	1:B:135:SER:H	3	0.24
(1,1681)	1:B:145:VAL:HG12	1:B:135:SER:H	3	0.24
(1,1681)	1:B:145:VAL:HG13	1:B:135:SER:H	3	0.24
(1,1679)	1:B:145:VAL:HB	1:B:135:SER:HA	2	0.24
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD11	9	0.24
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD12	9	0.24
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD13	9	0.24
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD21	9	0.24
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD22	9	0.24
(1,1665)	1:B:144:THR:H	1:B:143:LEU:HD23	9	0.24
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	5	0.24
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	9	0.24
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD11	6	0.24
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD12	6	0.24
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD13	6	0.24
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD21	6	0.24
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD22	6	0.24
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD23	6	0.24
(1,1582)	1:B:133:ILE:HD11	1:B:130:PRO:HG2	9	0.24
(1,1582)	1:B:133:ILE:HD11	1:B:130:PRO:HG3	9	0.24
(1,1582)	1:B:133:ILE:HD12	1:B:130:PRO:HG2	9	0.24
(1,1582)	1:B:133:ILE:HD12	1:B:130:PRO:HG3	9	0.24
(1,1582)	1:B:133:ILE:HD13	1:B:130:PRO:HG2	9	0.24
(1,1582)	1:B:133:ILE:HD13	1:B:130:PRO:HG3	9	0.24
(1,1481)	1:B:124:ILE:HD11	1:B:96:ASP:H	4	0.24
(1,1481)	1:B:124:ILE:HD12	1:B:96:ASP:H	4	0.24
(1,1481)	1:B:124:ILE:HD13	1:B:96:ASP:H	4	0.24
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1459)	1:B:122:TYR:HA	1:B:122:TYR:HD1	2	0.24
(1,1459)	1:B:122:TYR:HA	1:B:122:TYR:HD2	2	0.24
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD11	5	0.24
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD12	5	0.24
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD13	5	0.24
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD11	5	0.24
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD12	5	0.24
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD13	5	0.24
(1,1436)	1:B:119:HIS:HA	1:B:101:HIS:HA	6	0.24
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	5	0.24
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	7	0.24
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	7	0.24
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	7	0.24
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD1	4	0.24
(1,1361)	1:B:113:PHE:HA	1:B:113:PHE:HD2	4	0.24
(1,1337)	1:B:111:HIS:HA	1:B:112:GLY:H	5	0.24
(1,1337)	1:B:111:HIS:HA	1:B:112:GLY:H	7	0.24
(1,1294)	1:B:107:ARG:HB3	1:B:107:ARG:H	9	0.24
(1,1282)	1:B:105:GLU:HA	1:B:106:GLU:H	8	0.24
(1,1236)	1:B:101:HIS:H	1:B:100:VAL:HA	6	0.24
(1,1236)	1:B:101:HIS:H	1:B:100:VAL:HA	9	0.24
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	4	0.24
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG2	7	0.24
(1,1222)	1:B:99:GLU:HB2	1:B:121:LYS:HG3	7	0.24
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG2	7	0.24
(1,1222)	1:B:99:GLU:HB3	1:B:121:LYS:HG3	7	0.24
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	2	0.24
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	3	0.24
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	6	0.24
(1,1213)	1:B:98:ILE:H	1:B:122:TYR:H	5	0.24
(1,1213)	1:B:98:ILE:H	1:B:122:TYR:H	6	0.24
(1,1212)	1:B:98:ILE:H	1:B:122:TYR:H	5	0.24
(1,1212)	1:B:98:ILE:H	1:B:122:TYR:H	6	0.24
(1,120)	1:A:78:ASN:HA	1:A:78:ASN:HB3	8	0.24
(1,1187)	1:B:96:ASP:HA	1:B:124:ILE:H	5	0.24
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	1	0.24
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	6	0.24
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	7	0.24
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	9	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD11	3	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD12	3	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD13	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD21	3	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD22	3	0.24
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD23	3	0.24
(1,1156)	1:B:94:LEU:H	1:B:93:VAL:HB	4	0.24
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	5	0.24
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	4	0.24
(1,1142)	1:B:92:LYS:H	1:B:92:LYS:HG2	8	0.24
(1,1142)	1:B:92:LYS:H	1:B:92:LYS:HG3	8	0.24
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	2	0.24
(1,1134)	1:B:90:LYS:HB2	1:B:101:HIS:HB3	7	0.24
(1,1134)	1:B:90:LYS:HB3	1:B:101:HIS:HB3	7	0.24
(1,1133)	1:B:90:LYS:HB2	1:B:101:HIS:HB2	9	0.24
(1,1133)	1:B:90:LYS:HB3	1:B:101:HIS:HB2	9	0.24
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	6	0.24
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	7	0.24
(1,107)	1:A:77:VAL:HG11	1:A:79:LEU:HG	6	0.24
(1,107)	1:A:77:VAL:HG12	1:A:79:LEU:HG	6	0.24
(1,107)	1:A:77:VAL:HG13	1:A:79:LEU:HG	6	0.24
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	8	0.24
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	8	0.24
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	5	0.24
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	5	0.24
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	1	0.24
(1,987)	1:B:78:ASN:HA	1:B:78:ASN:HB3	6	0.23
(1,975)	1:B:77:VAL:HG11	1:B:79:LEU:H	9	0.23
(1,975)	1:B:77:VAL:HG12	1:B:79:LEU:H	9	0.23
(1,975)	1:B:77:VAL:HG13	1:B:79:LEU:H	9	0.23
(1,972)	1:B:77:VAL:HG21	1:B:79:LEU:HG	4	0.23
(1,972)	1:B:77:VAL:HG22	1:B:79:LEU:HG	4	0.23
(1,972)	1:B:77:VAL:HG23	1:B:79:LEU:HG	4	0.23
(1,945)	1:B:76:SER:HA	1:B:146:ASP:HA	6	0.23
(1,941)	1:B:76:SER:HA	1:B:146:ASP:HA	6	0.23
(1,909)	1:B:74:ARG:H	1:B:74:ARG:HB2	6	0.23
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB2	7	0.23
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB3	7	0.23
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	2	0.23
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	2	0.23
(1,817)	1:A:145:VAL:HB	1:A:145:VAL:H	5	0.23
(1,809)	1:A:144:THR:HG21	1:A:146:ASP:HB3	8	0.23
(1,809)	1:A:144:THR:HG22	1:A:146:ASP:HB3	8	0.23
(1,809)	1:A:144:THR:HG23	1:A:146:ASP:HB3	8	0.23
(1,808)	1:A:144:THR:H	1:A:145:VAL:H	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:A:144:THR:H	1:A:145:VAL:H	9	0.23
(1,783)	1:A:142:VAL:HG11	1:A:142:VAL:H	2	0.23
(1,783)	1:A:142:VAL:HG12	1:A:142:VAL:H	2	0.23
(1,783)	1:A:142:VAL:HG13	1:A:142:VAL:H	2	0.23
(1,783)	1:A:142:VAL:HG21	1:A:142:VAL:H	2	0.23
(1,783)	1:A:142:VAL:HG22	1:A:142:VAL:H	2	0.23
(1,783)	1:A:142:VAL:HG23	1:A:142:VAL:H	2	0.23
(1,782)	1:A:142:VAL:HG11	1:A:142:VAL:H	2	0.23
(1,782)	1:A:142:VAL:HG12	1:A:142:VAL:H	2	0.23
(1,782)	1:A:142:VAL:HG13	1:A:142:VAL:H	2	0.23
(1,782)	1:A:142:VAL:HG21	1:A:142:VAL:H	2	0.23
(1,782)	1:A:142:VAL:HG22	1:A:142:VAL:H	2	0.23
(1,782)	1:A:142:VAL:HG23	1:A:142:VAL:H	2	0.23
(1,78)	1:A:76:SER:HA	1:A:146:ASP:HA	6	0.23
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	7	0.23
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	9	0.23
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	7	0.23
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	9	0.23
(1,749)	1:A:136:SER:HA	1:A:137:LEU:H	5	0.23
(1,746)	1:A:136:SER:H	1:A:135:SER:H	2	0.23
(1,742)	1:A:135:SER:HA	1:A:145:VAL:HA	4	0.23
(1,740)	1:A:135:SER:HA	1:A:145:VAL:HA	4	0.23
(1,74)	1:A:76:SER:HA	1:A:146:ASP:HA	6	0.23
(1,705)	1:A:132:THR:HG1	1:A:133:ILE:H	5	0.23
(1,675)	1:A:128:VAL:H	1:A:126:ALA:H	4	0.23
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD11	8	0.23
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD12	8	0.23
(1,647)	1:A:125:PRO:HD3	1:A:124:ILE:HD13	8	0.23
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	8	0.23
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	8	0.23
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	8	0.23
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	8	0.23
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	8	0.23
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD11	4	0.23
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD12	4	0.23
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD13	4	0.23
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD11	4	0.23
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD12	4	0.23
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD13	4	0.23
(1,583)	1:A:121:LYS:HA	1:A:99:GLU:HA	8	0.23
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	4	0.23
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:A:106:GLU:HB2	1:A:106:GLU:H	2	0.23
(1,420)	1:A:106:GLU:HB3	1:A:106:GLU:H	2	0.23
(1,42)	1:A:74:ARG:H	1:A:74:ARG:HB2	6	0.23
(1,414)	1:A:105:GLU:HG2	1:A:105:GLU:H	9	0.23
(1,414)	1:A:105:GLU:HG3	1:A:105:GLU:H	9	0.23
(1,413)	1:A:105:GLU:HG2	1:A:105:GLU:H	9	0.23
(1,413)	1:A:105:GLU:HG3	1:A:105:GLU:H	9	0.23
(1,399)	1:A:103:LYS:HA	1:A:118:PHE:H	1	0.23
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	7	0.23
(1,372)	1:A:101:HIS:HA	1:A:101:HIS:HD2	9	0.23
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	1	0.23
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	9	0.23
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	3	0.23
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	5	0.23
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	9	0.23
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	9	0.23
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB2	7	0.23
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB3	7	0.23
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD11	1	0.23
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD12	1	0.23
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD13	1	0.23
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD21	1	0.23
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD22	1	0.23
(1,299)	1:A:95:GLY:HA3	1:A:94:LEU:HD23	1	0.23
(1,281)	1:A:92:LYS:H	1:A:101:HIS:H	1	0.23
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	7	0.23
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	3	0.23
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	9	0.23
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	8	0.23
(1,189)	1:A:84:PHE:H	1:A:81:VAL:HB	7	0.23
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	2	0.23
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	2	0.23
(1,1750)	1:A:115:SER:HB2	1:B:119:HIS:HE1	1	0.23
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	1	0.23
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	1	0.23
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	2	0.23
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	2	0.23
(1,1684)	1:B:145:VAL:HB	1:B:145:VAL:H	5	0.23
(1,168)	1:A:81:VAL:HG21	1:A:143:LEU:HA	2	0.23
(1,168)	1:A:81:VAL:HG22	1:A:143:LEU:HA	2	0.23
(1,168)	1:A:81:VAL:HG23	1:A:143:LEU:HA	2	0.23
(1,1678)	1:B:145:VAL:HB	1:B:77:VAL:HB	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1676)	1:B:144:THR:HG21	1:B:146:ASP:HB3	8	0.23
(1,1676)	1:B:144:THR:HG22	1:B:146:ASP:HB3	8	0.23
(1,1676)	1:B:144:THR:HG23	1:B:146:ASP:HB3	8	0.23
(1,1675)	1:B:144:THR:H	1:B:145:VAL:H	9	0.23
(1,1670)	1:B:144:THR:H	1:B:145:VAL:H	9	0.23
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	1	0.23
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	7	0.23
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	9	0.23
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	1	0.23
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	7	0.23
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	9	0.23
(1,1616)	1:B:136:SER:HA	1:B:137:LEU:H	5	0.23
(1,1613)	1:B:136:SER:H	1:B:135:SER:H	2	0.23
(1,1609)	1:B:135:SER:HA	1:B:145:VAL:HA	4	0.23
(1,1607)	1:B:135:SER:HA	1:B:145:VAL:HA	4	0.23
(1,1542)	1:B:128:VAL:H	1:B:126:ALA:H	4	0.23
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD2	4	0.23
(1,1476)	1:B:123:ARG:HA	1:B:123:ARG:HD3	4	0.23
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	8	0.23
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	8	0.23
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	8	0.23
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	8	0.23
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	8	0.23
(1,1450)	1:B:121:LYS:HA	1:B:99:GLU:HA	8	0.23
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	4	0.23
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	5	0.23
(1,1287)	1:B:106:GLU:HB2	1:B:106:GLU:H	2	0.23
(1,1287)	1:B:106:GLU:HB3	1:B:106:GLU:H	2	0.23
(1,1281)	1:B:105:GLU:HG2	1:B:105:GLU:H	9	0.23
(1,1281)	1:B:105:GLU:HG3	1:B:105:GLU:H	9	0.23
(1,1280)	1:B:105:GLU:HG2	1:B:105:GLU:H	9	0.23
(1,1280)	1:B:105:GLU:HG3	1:B:105:GLU:H	9	0.23
(1,1266)	1:B:103:LYS:HA	1:B:118:PHE:H	1	0.23
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	7	0.23
(1,1239)	1:B:101:HIS:HA	1:B:101:HIS:HD2	9	0.23
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	1	0.23
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	9	0.23
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	3	0.23
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	5	0.23
(1,120)	1:A:78:ASN:HA	1:A:78:ASN:HB3	6	0.23
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	9	0.23
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	2	0.23
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD11	1	0.23
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD12	1	0.23
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD13	1	0.23
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD21	1	0.23
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD22	1	0.23
(1,1166)	1:B:95:GLY:HA3	1:B:94:LEU:HD23	1	0.23
(1,1148)	1:B:92:LYS:H	1:B:101:HIS:H	1	0.23
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	7	0.23
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	3	0.23
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	9	0.23
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	8	0.23
(1,108)	1:A:77:VAL:HG11	1:A:79:LEU:H	9	0.23
(1,108)	1:A:77:VAL:HG12	1:A:79:LEU:H	9	0.23
(1,108)	1:A:77:VAL:HG13	1:A:79:LEU:H	9	0.23
(1,1056)	1:B:84:PHE:H	1:B:81:VAL:HB	7	0.23
(1,105)	1:A:77:VAL:HG21	1:A:79:LEU:HG	4	0.23
(1,105)	1:A:77:VAL:HG22	1:A:79:LEU:HG	4	0.23
(1,105)	1:A:77:VAL:HG23	1:A:79:LEU:HG	4	0.23
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	1	0.23
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	1	0.23
(1,1035)	1:B:81:VAL:HG21	1:B:143:LEU:HA	2	0.23
(1,1035)	1:B:81:VAL:HG22	1:B:143:LEU:HA	2	0.23
(1,1035)	1:B:81:VAL:HG23	1:B:143:LEU:HA	2	0.23
(1,102)	1:A:77:VAL:HG11	1:A:78:ASN:H	7	0.23
(1,102)	1:A:77:VAL:HG12	1:A:78:ASN:H	7	0.23
(1,102)	1:A:77:VAL:HG13	1:A:78:ASN:H	7	0.23
(1,987)	1:B:78:ASN:HA	1:B:78:ASN:HB3	1	0.22
(1,969)	1:B:77:VAL:HG11	1:B:78:ASN:H	7	0.22
(1,969)	1:B:77:VAL:HG12	1:B:78:ASN:H	7	0.22
(1,969)	1:B:77:VAL:HG13	1:B:78:ASN:H	7	0.22
(1,940)	1:B:76:SER:HB2	1:B:146:ASP:HB2	4	0.22
(1,937)	1:B:76:SER:HB2	1:B:146:ASP:HB2	4	0.22
(1,934)	1:B:76:SER:HB2	1:B:146:ASP:HB2	4	0.22
(1,930)	1:B:76:SER:HB2	1:B:77:VAL:H	1	0.22
(1,915)	1:B:75:PHE:HA	1:B:75:PHE:HB3	4	0.22
(1,881)	1:B:68:MET:HE1	1:B:122:TYR:HD1	4	0.22
(1,881)	1:B:68:MET:HE1	1:B:122:TYR:HD2	4	0.22
(1,881)	1:B:68:MET:HE2	1:B:122:TYR:HD1	4	0.22
(1,881)	1:B:68:MET:HE2	1:B:122:TYR:HD2	4	0.22
(1,881)	1:B:68:MET:HE3	1:B:122:TYR:HD1	4	0.22
(1,881)	1:B:68:MET:HE3	1:B:122:TYR:HD2	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,847)	1:A:147:GLY:HA2	1:A:147:GLY:H	2	0.22
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	6	0.22
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	6	0.22
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	3	0.22
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	8	0.22
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	9	0.22
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	2	0.22
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	6	0.22
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	1	0.22
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	1	0.22
(1,746)	1:A:136:SER:H	1:A:135:SER:H	3	0.22
(1,745)	1:A:136:SER:H	1:A:135:SER:H	4	0.22
(1,73)	1:A:76:SER:HB2	1:A:146:ASP:HB2	4	0.22
(1,717)	1:A:133:ILE:HG21	1:A:132:THR:H	6	0.22
(1,717)	1:A:133:ILE:HG22	1:A:132:THR:H	6	0.22
(1,717)	1:A:133:ILE:HG23	1:A:132:THR:H	6	0.22
(1,70)	1:A:76:SER:HB2	1:A:146:ASP:HB2	4	0.22
(1,682)	1:A:129:ASP:H	1:A:128:VAL:HA	4	0.22
(1,67)	1:A:76:SER:HB2	1:A:146:ASP:HB2	4	0.22
(1,656)	1:A:125:PRO:HA	1:A:127:ASP:H	4	0.22
(1,63)	1:A:76:SER:HB2	1:A:77:VAL:H	1	0.22
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD2	4	0.22
(1,609)	1:A:123:ARG:HA	1:A:123:ARG:HD3	4	0.22
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	6	0.22
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	6	0.22
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	6	0.22
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	6	0.22
(1,580)	1:A:120:ARG:H	1:A:100:VAL:H	9	0.22
(1,546)	1:A:117:GLU:HA	1:A:117:GLU:H	2	0.22
(1,48)	1:A:75:PHE:HA	1:A:75:PHE:HB3	4	0.22
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG21	1	0.22
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG22	1	0.22
(1,473)	1:A:111:HIS:HB3	1:A:114:ILE:HG23	1	0.22
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB2	4	0.22
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB3	4	0.22
(1,411)	1:A:105:GLU:HB2	1:A:105:GLU:H	4	0.22
(1,411)	1:A:105:GLU:HB3	1:A:105:GLU:H	4	0.22
(1,369)	1:A:101:HIS:H	1:A:100:VAL:HA	8	0.22
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	6	0.22
(1,305)	1:A:95:GLY:HA2	1:A:96:ASP:H	8	0.22
(1,292)	1:A:94:LEU:HD11	1:A:95:GLY:H	1	0.22
(1,292)	1:A:94:LEU:HD12	1:A:95:GLY:H	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,292)	1:A:94:LEU:HD13	1:A:95:GLY:H	1	0.22
(1,292)	1:A:94:LEU:HD21	1:A:95:GLY:H	1	0.22
(1,292)	1:A:94:LEU:HD22	1:A:95:GLY:H	1	0.22
(1,292)	1:A:94:LEU:HD23	1:A:95:GLY:H	1	0.22
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	8	0.22
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	4	0.22
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	5	0.22
(1,250)	1:A:89:LEU:HD21	1:A:89:LEU:H	2	0.22
(1,250)	1:A:89:LEU:HD22	1:A:89:LEU:H	2	0.22
(1,250)	1:A:89:LEU:HD23	1:A:89:LEU:H	2	0.22
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	9	0.22
(1,228)	1:A:87:GLU:H	1:A:88:GLU:H	6	0.22
(1,225)	1:A:87:GLU:H	1:A:88:GLU:H	6	0.22
(1,199)	1:A:84:PHE:HB2	1:A:85:SER:H	2	0.22
(1,199)	1:A:84:PHE:HB3	1:A:85:SER:H	2	0.22
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	9	0.22
(1,1749)	1:A:115:SER:HB3	1:B:119:HIS:HE1	8	0.22
(1,1744)	1:A:114:ILE:HA	1:B:120:ARG:HB2	6	0.22
(1,1744)	1:A:114:ILE:HA	1:B:120:ARG:HB3	6	0.22
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	9	0.22
(1,1714)	1:B:147:GLY:HA2	1:B:147:GLY:H	2	0.22
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	6	0.22
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	6	0.22
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	3	0.22
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	8	0.22
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	2	0.22
(1,1672)	1:B:144:THR:HG21	1:B:145:VAL:H	4	0.22
(1,1672)	1:B:144:THR:HG22	1:B:145:VAL:H	4	0.22
(1,1672)	1:B:144:THR:HG23	1:B:145:VAL:H	4	0.22
(1,1650)	1:B:142:VAL:HG11	1:B:142:VAL:H	2	0.22
(1,1650)	1:B:142:VAL:HG12	1:B:142:VAL:H	2	0.22
(1,1650)	1:B:142:VAL:HG13	1:B:142:VAL:H	2	0.22
(1,1650)	1:B:142:VAL:HG21	1:B:142:VAL:H	2	0.22
(1,1650)	1:B:142:VAL:HG22	1:B:142:VAL:H	2	0.22
(1,1650)	1:B:142:VAL:HG23	1:B:142:VAL:H	2	0.22
(1,1649)	1:B:142:VAL:HG11	1:B:142:VAL:H	2	0.22
(1,1649)	1:B:142:VAL:HG12	1:B:142:VAL:H	2	0.22
(1,1649)	1:B:142:VAL:HG13	1:B:142:VAL:H	2	0.22
(1,1649)	1:B:142:VAL:HG21	1:B:142:VAL:H	2	0.22
(1,1649)	1:B:142:VAL:HG22	1:B:142:VAL:H	2	0.22
(1,1649)	1:B:142:VAL:HG23	1:B:142:VAL:H	2	0.22
(1,1613)	1:B:136:SER:H	1:B:135:SER:H	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1612)	1:B:136:SER:H	1:B:135:SER:H	4	0.22
(1,1584)	1:B:133:ILE:HG21	1:B:132:THR:H	6	0.22
(1,1584)	1:B:133:ILE:HG22	1:B:132:THR:H	6	0.22
(1,1584)	1:B:133:ILE:HG23	1:B:132:THR:H	6	0.22
(1,1549)	1:B:129:ASP:H	1:B:128:VAL:HA	4	0.22
(1,1523)	1:B:125:PRO:HA	1:B:127:ASP:H	4	0.22
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD11	8	0.22
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD12	8	0.22
(1,1514)	1:B:125:PRO:HD3	1:B:124:ILE:HD13	8	0.22
(1,1447)	1:B:120:ARG:H	1:B:100:VAL:H	9	0.22
(1,1413)	1:B:117:GLU:HA	1:B:117:GLU:H	2	0.22
(1,14)	1:A:68:MET:HE1	1:A:122:TYR:HD1	4	0.22
(1,14)	1:A:68:MET:HE1	1:A:122:TYR:HD2	4	0.22
(1,14)	1:A:68:MET:HE2	1:A:122:TYR:HD1	4	0.22
(1,14)	1:A:68:MET:HE2	1:A:122:TYR:HD2	4	0.22
(1,14)	1:A:68:MET:HE3	1:A:122:TYR:HD1	4	0.22
(1,14)	1:A:68:MET:HE3	1:A:122:TYR:HD2	4	0.22
(1,138)	1:A:79:LEU:HD11	1:A:79:LEU:HA	7	0.22
(1,138)	1:A:79:LEU:HD12	1:A:79:LEU:HA	7	0.22
(1,138)	1:A:79:LEU:HD13	1:A:79:LEU:HA	7	0.22
(1,138)	1:A:79:LEU:HD21	1:A:79:LEU:HA	7	0.22
(1,138)	1:A:79:LEU:HD22	1:A:79:LEU:HA	7	0.22
(1,138)	1:A:79:LEU:HD23	1:A:79:LEU:HA	7	0.22
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG21	1	0.22
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG22	1	0.22
(1,1340)	1:B:111:HIS:HB3	1:B:114:ILE:HG23	1	0.22
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB2	4	0.22
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB3	4	0.22
(1,1278)	1:B:105:GLU:HB2	1:B:105:GLU:H	4	0.22
(1,1278)	1:B:105:GLU:HB3	1:B:105:GLU:H	4	0.22
(1,1236)	1:B:101:HIS:H	1:B:100:VAL:HA	8	0.22
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	6	0.22
(1,120)	1:A:78:ASN:HA	1:A:78:ASN:HB3	1	0.22
(1,1172)	1:B:95:GLY:HA2	1:B:96:ASP:H	8	0.22
(1,1159)	1:B:94:LEU:HD11	1:B:95:GLY:H	1	0.22
(1,1159)	1:B:94:LEU:HD12	1:B:95:GLY:H	1	0.22
(1,1159)	1:B:94:LEU:HD13	1:B:95:GLY:H	1	0.22
(1,1159)	1:B:94:LEU:HD21	1:B:95:GLY:H	1	0.22
(1,1159)	1:B:94:LEU:HD22	1:B:95:GLY:H	1	0.22
(1,1159)	1:B:94:LEU:HD23	1:B:95:GLY:H	1	0.22
(1,1146)	1:B:92:LYS:H	1:B:99:GLU:H	2	0.22
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	5	0.22
(1,1120)	1:B:89:LEU:HA	1:B:90:LYS:H	5	0.22
(1,1117)	1:B:89:LEU:HD21	1:B:89:LEU:H	2	0.22
(1,1117)	1:B:89:LEU:HD22	1:B:89:LEU:H	2	0.22
(1,1117)	1:B:89:LEU:HD23	1:B:89:LEU:H	2	0.22
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	9	0.22
(1,1095)	1:B:87:GLU:H	1:B:88:GLU:H	6	0.22
(1,1092)	1:B:87:GLU:H	1:B:88:GLU:H	6	0.22
(1,1066)	1:B:84:PHE:HB2	1:B:85:SER:H	2	0.22
(1,1066)	1:B:84:PHE:HB3	1:B:85:SER:H	2	0.22
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	9	0.22
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	9	0.22
(1,1005)	1:B:79:LEU:HD11	1:B:79:LEU:HA	7	0.22
(1,1005)	1:B:79:LEU:HD12	1:B:79:LEU:HA	7	0.22
(1,1005)	1:B:79:LEU:HD13	1:B:79:LEU:HA	7	0.22
(1,1005)	1:B:79:LEU:HD21	1:B:79:LEU:HA	7	0.22
(1,1005)	1:B:79:LEU:HD22	1:B:79:LEU:HA	7	0.22
(1,1005)	1:B:79:LEU:HD23	1:B:79:LEU:HA	7	0.22
(1,997)	1:B:78:ASN:HB2	1:B:79:LEU:H	2	0.21
(1,952)	1:B:77:VAL:HB	1:B:75:PHE:HD1	7	0.21
(1,952)	1:B:77:VAL:HB	1:B:75:PHE:HD2	7	0.21
(1,945)	1:B:76:SER:HA	1:B:146:ASP:HA	9	0.21
(1,941)	1:B:76:SER:HA	1:B:146:ASP:HA	9	0.21
(1,940)	1:B:76:SER:HB2	1:B:146:ASP:HB2	6	0.21
(1,937)	1:B:76:SER:HB2	1:B:146:ASP:HB2	6	0.21
(1,934)	1:B:76:SER:HB2	1:B:146:ASP:HB2	6	0.21
(1,905)	1:B:74:ARG:H	1:B:73:ASP:H	8	0.21
(1,904)	1:B:74:ARG:H	1:B:73:ASP:H	8	0.21
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB2	5	0.21
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB3	5	0.21
(1,875)	1:B:68:MET:HG2	1:B:68:MET:H	3	0.21
(1,875)	1:B:68:MET:HG3	1:B:68:MET:H	3	0.21
(1,866)	1:A:152:VAL:H	1:A:151:GLN:H	3	0.21
(1,85)	1:A:77:VAL:HB	1:A:75:PHE:HD1	7	0.21
(1,85)	1:A:77:VAL:HB	1:A:75:PHE:HD2	7	0.21
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	4	0.21
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	7	0.21
(1,817)	1:A:145:VAL:HB	1:A:145:VAL:H	8	0.21
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	5	0.21
(1,805)	1:A:144:THR:HG21	1:A:145:VAL:H	4	0.21
(1,805)	1:A:144:THR:HG22	1:A:145:VAL:H	4	0.21
(1,805)	1:A:144:THR:HG23	1:A:145:VAL:H	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:A:68:MET:HG2	1:A:68:MET:H	3	0.21
(1,8)	1:A:68:MET:HG3	1:A:68:MET:H	3	0.21
(1,78)	1:A:76:SER:HA	1:A:146:ASP:HA	9	0.21
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	6	0.21
(1,770)	1:A:141:GLY:H	1:A:140:ASP:H	8	0.21
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	6	0.21
(1,768)	1:A:141:GLY:H	1:A:140:ASP:H	8	0.21
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB2	9	0.21
(1,752)	1:A:137:LEU:H	1:A:137:LEU:HB3	9	0.21
(1,74)	1:A:76:SER:HA	1:A:146:ASP:HA	9	0.21
(1,731)	1:A:134:THR:HG21	1:A:135:SER:H	5	0.21
(1,731)	1:A:134:THR:HG22	1:A:135:SER:H	5	0.21
(1,731)	1:A:134:THR:HG23	1:A:135:SER:H	5	0.21
(1,73)	1:A:76:SER:HB2	1:A:146:ASP:HB2	6	0.21
(1,70)	1:A:76:SER:HB2	1:A:146:ASP:HB2	6	0.21
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	2	0.21
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	2	0.21
(1,67)	1:A:76:SER:HB2	1:A:146:ASP:HB2	6	0.21
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	8	0.21
(1,573)	1:A:119:HIS:HA	1:A:119:HIS:HD2	8	0.21
(1,569)	1:A:119:HIS:HA	1:A:101:HIS:HA	2	0.21
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	3	0.21
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	3	0.21
(1,564)	1:A:118:PHE:HD1	1:A:118:PHE:H	9	0.21
(1,564)	1:A:118:PHE:HD2	1:A:118:PHE:H	9	0.21
(1,469)	1:A:111:HIS:HB2	1:A:112:GLY:H	4	0.21
(1,469)	1:A:111:HIS:HB2	1:A:112:GLY:H	5	0.21
(1,469)	1:A:111:HIS:HB2	1:A:112:GLY:H	7	0.21
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	4	0.21
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	4	0.21
(1,411)	1:A:105:GLU:HB2	1:A:105:GLU:H	1	0.21
(1,411)	1:A:105:GLU:HB3	1:A:105:GLU:H	1	0.21
(1,398)	1:A:103:LYS:HD2	1:A:118:PHE:H	4	0.21
(1,398)	1:A:103:LYS:HD3	1:A:118:PHE:H	4	0.21
(1,38)	1:A:74:ARG:H	1:A:73:ASP:H	8	0.21
(1,379)	1:A:101:HIS:HB2	1:A:101:HIS:H	7	0.21
(1,37)	1:A:74:ARG:H	1:A:73:ASP:H	8	0.21
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB2	1	0.21
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB3	1	0.21
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	3	0.21
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	2	0.21
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	2	0.21
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	2	0.21
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	2	0.21
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	2	0.21
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB2	5	0.21
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB3	5	0.21
(1,301)	1:A:95:GLY:H	1:A:94:LEU:HG	6	0.21
(1,293)	1:A:94:LEU:H	1:A:95:GLY:H	9	0.21
(1,289)	1:A:94:LEU:H	1:A:93:VAL:HB	5	0.21
(1,279)	1:A:92:LYS:H	1:A:99:GLU:H	2	0.21
(1,253)	1:A:89:LEU:HA	1:A:90:LYS:H	5	0.21
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	2	0.21
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG2	2	0.21
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG3	2	0.21
(1,237)	1:A:89:LEU:H	1:A:85:SER:H	4	0.21
(1,215)	1:A:85:SER:HB3	1:A:89:LEU:H	5	0.21
(1,203)	1:A:84:PHE:HE1	1:A:116:ARG:H	9	0.21
(1,203)	1:A:84:PHE:HE2	1:A:116:ARG:H	9	0.21
(1,1733)	1:B:152:VAL:H	1:B:151:GLN:H	3	0.21
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	4	0.21
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	7	0.21
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	9	0.21
(1,1684)	1:B:145:VAL:HB	1:B:145:VAL:H	8	0.21
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	6	0.21
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	6	0.21
(1,1637)	1:B:141:GLY:H	1:B:140:ASP:H	8	0.21
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	6	0.21
(1,1635)	1:B:141:GLY:H	1:B:140:ASP:H	8	0.21
(1,1620)	1:B:137:LEU:H	1:B:137:LEU:HG	3	0.21
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB2	9	0.21
(1,1619)	1:B:137:LEU:H	1:B:137:LEU:HB3	9	0.21
(1,1598)	1:B:134:THR:HG21	1:B:135:SER:H	5	0.21
(1,1598)	1:B:134:THR:HG22	1:B:135:SER:H	5	0.21
(1,1598)	1:B:134:THR:HG23	1:B:135:SER:H	5	0.21
(1,1572)	1:B:132:THR:HG1	1:B:133:ILE:H	9	0.21
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	2	0.21
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	2	0.21
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	8	0.21
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	6	0.21
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	6	0.21
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	6	0.21
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1440)	1:B:119:HIS:HA	1:B:119:HIS:HD2	8	0.21
(1,1436)	1:B:119:HIS:HA	1:B:101:HIS:HA	2	0.21
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	3	0.21
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	3	0.21
(1,1431)	1:B:118:PHE:HD1	1:B:118:PHE:H	9	0.21
(1,1431)	1:B:118:PHE:HD2	1:B:118:PHE:H	9	0.21
(1,1336)	1:B:111:HIS:HB2	1:B:112:GLY:H	4	0.21
(1,1336)	1:B:111:HIS:HB2	1:B:112:GLY:H	5	0.21
(1,1336)	1:B:111:HIS:HB2	1:B:112:GLY:H	7	0.21
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	4	0.21
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	4	0.21
(1,130)	1:A:78:ASN:HB2	1:A:79:LEU:H	2	0.21
(1,1265)	1:B:103:LYS:HD2	1:B:118:PHE:H	4	0.21
(1,1265)	1:B:103:LYS:HD3	1:B:118:PHE:H	4	0.21
(1,1246)	1:B:101:HIS:HB2	1:B:101:HIS:H	7	0.21
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB2	1	0.21
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB3	1	0.21
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	3	0.21
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	2	0.21
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	2	0.21
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	2	0.21
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	2	0.21
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	2	0.21
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	2	0.21
(1,1160)	1:B:94:LEU:H	1:B:95:GLY:H	9	0.21
(1,1156)	1:B:94:LEU:H	1:B:93:VAL:HB	5	0.21
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	4	0.21
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	2	0.21
(1,1104)	1:B:89:LEU:H	1:B:85:SER:H	4	0.21
(1,1082)	1:B:85:SER:HB3	1:B:89:LEU:H	5	0.21
(1,1070)	1:B:84:PHE:HE1	1:B:116:ARG:H	2	0.21
(1,1070)	1:B:84:PHE:HE2	1:B:116:ARG:H	2	0.21
(1,1070)	1:B:84:PHE:HE1	1:B:116:ARG:H	9	0.21
(1,1070)	1:B:84:PHE:HE2	1:B:116:ARG:H	9	0.21
(1,1047)	1:B:83:HIS:HB2	1:B:83:HIS:H	5	0.21
(1,988)	1:B:78:ASN:HA	1:B:78:ASN:HB2	5	0.2
(1,988)	1:B:78:ASN:HA	1:B:78:ASN:HB2	9	0.2
(1,986)	1:B:77:VAL:HB	1:B:146:ASP:HB3	3	0.2
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	8	0.2
(1,9)	1:A:68:MET:HE1	1:A:68:MET:H	9	0.2
(1,9)	1:A:68:MET:HE2	1:A:68:MET:H	9	0.2
(1,9)	1:A:68:MET:HE3	1:A:68:MET:H	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB2	9	0.2
(1,898)	1:B:73:ASP:H	1:B:72:LYS:HB3	9	0.2
(1,895)	1:B:72:LYS:H	1:B:72:LYS:HA	4	0.2
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG2	2	0.2
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG3	2	0.2
(1,883)	1:B:70:LEU:H	1:B:70:LEU:HB2	2	0.2
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	1	0.2
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	2	0.2
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	1	0.2
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	4	0.2
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	7	0.2
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	9	0.2
(1,794)	1:A:144:THR:HG21	1:A:78:ASN:HA	4	0.2
(1,794)	1:A:144:THR:HG22	1:A:78:ASN:HA	4	0.2
(1,794)	1:A:144:THR:HG23	1:A:78:ASN:HA	4	0.2
(1,78)	1:A:76:SER:HA	1:A:146:ASP:HA	7	0.2
(1,77)	1:A:76:SER:HB2	1:A:146:ASP:HB3	5	0.2
(1,755)	1:A:138:SER:H	1:A:137:LEU:H	3	0.2
(1,753)	1:A:137:LEU:H	1:A:137:LEU:HG	3	0.2
(1,746)	1:A:136:SER:H	1:A:135:SER:H	5	0.2
(1,746)	1:A:136:SER:H	1:A:135:SER:H	6	0.2
(1,74)	1:A:76:SER:HA	1:A:146:ASP:HA	7	0.2
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	2	0.2
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	2	0.2
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	2	0.2
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	3	0.2
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	3	0.2
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	3	0.2
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	3	0.2
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG21	2	0.2
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG22	2	0.2
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG23	2	0.2
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG21	2	0.2
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG22	2	0.2
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG23	2	0.2
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	8	0.2
(1,478)	1:A:112:GLY:HA2	1:A:112:GLY:H	4	0.2
(1,464)	1:A:111:HIS:H	1:A:111:HIS:HD2	8	0.2
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB2	7	0.2
(1,457)	1:A:111:HIS:H	1:A:109:ASP:HB3	7	0.2
(1,427)	1:A:107:ARG:HB3	1:A:107:ARG:H	6	0.2
(1,411)	1:A:105:GLU:HB2	1:A:105:GLU:H	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,411)	1:A:105:GLU:HB3	1:A:105:GLU:H	5	0.2
(1,395)	1:A:103:LYS:HG2	1:A:103:LYS:H	6	0.2
(1,395)	1:A:103:LYS:HG3	1:A:103:LYS:H	6	0.2
(1,392)	1:A:102:GLY:H	1:A:118:PHE:H	7	0.2
(1,379)	1:A:101:HIS:HB2	1:A:101:HIS:H	1	0.2
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB2	6	0.2
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB3	6	0.2
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB2	9	0.2
(1,31)	1:A:73:ASP:H	1:A:72:LYS:HB3	9	0.2
(1,296)	1:A:94:LEU:H	1:A:99:GLU:H	5	0.2
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	8	0.2
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	8	0.2
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	8	0.2
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	8	0.2
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	8	0.2
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	8	0.2
(1,280)	1:A:92:LYS:H	1:A:100:VAL:HA	2	0.2
(1,28)	1:A:72:LYS:H	1:A:72:LYS:HA	4	0.2
(1,278)	1:A:92:LYS:H	1:A:93:VAL:H	4	0.2
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	3	0.2
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	5	0.2
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	7	0.2
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG2	7	0.2
(1,24)	1:A:71:GLU:H	1:A:69:ARG:HG3	7	0.2
(1,215)	1:A:85:SER:HB3	1:A:89:LEU:H	2	0.2
(1,203)	1:A:84:PHE:HE1	1:A:116:ARG:H	2	0.2
(1,203)	1:A:84:PHE:HE2	1:A:116:ARG:H	2	0.2
(1,192)	1:A:84:PHE:HD1	1:A:83:HIS:HB3	5	0.2
(1,192)	1:A:84:PHE:HD2	1:A:83:HIS:HB3	5	0.2
(1,180)	1:A:83:HIS:HB2	1:A:83:HIS:H	5	0.2
(1,176)	1:A:83:HIS:HB3	1:A:83:HIS:HD2	1	0.2
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	1	0.2
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	1	0.2
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	4	0.2
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	5	0.2
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	9	0.2
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD1	9	0.2
(1,166)	1:A:81:VAL:HG11	1:A:118:PHE:HD2	9	0.2
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD1	9	0.2
(1,166)	1:A:81:VAL:HG12	1:A:118:PHE:HD2	9	0.2
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD1	9	0.2
(1,166)	1:A:81:VAL:HG13	1:A:118:PHE:HD2	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,164)	1:A:81:VAL:HG21	1:A:84:PHE:H	4	0.2
(1,164)	1:A:81:VAL:HG22	1:A:84:PHE:H	4	0.2
(1,164)	1:A:81:VAL:HG23	1:A:84:PHE:H	4	0.2
(1,1622)	1:B:138:SER:H	1:B:137:LEU:H	3	0.2
(1,1613)	1:B:136:SER:H	1:B:135:SER:H	5	0.2
(1,1613)	1:B:136:SER:H	1:B:135:SER:H	6	0.2
(1,161)	1:A:81:VAL:H	1:A:82:LYS:HA	4	0.2
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	2	0.2
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	2	0.2
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	2	0.2
(1,16)	1:A:70:LEU:H	1:A:70:LEU:HB2	2	0.2
(1,1554)	1:B:130:PRO:HG2	1:B:131:LEU:H	9	0.2
(1,1554)	1:B:130:PRO:HG3	1:B:131:LEU:H	9	0.2
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	3	0.2
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	3	0.2
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	3	0.2
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	3	0.2
(1,1345)	1:B:112:GLY:HA2	1:B:112:GLY:H	4	0.2
(1,1331)	1:B:111:HIS:H	1:B:111:HIS:HD2	6	0.2
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB2	7	0.2
(1,1324)	1:B:111:HIS:H	1:B:109:ASP:HB3	7	0.2
(1,1294)	1:B:107:ARG:HB3	1:B:107:ARG:H	6	0.2
(1,1282)	1:B:105:GLU:HA	1:B:106:GLU:H	7	0.2
(1,1278)	1:B:105:GLU:HB2	1:B:105:GLU:H	1	0.2
(1,1278)	1:B:105:GLU:HB3	1:B:105:GLU:H	1	0.2
(1,1278)	1:B:105:GLU:HB2	1:B:105:GLU:H	5	0.2
(1,1278)	1:B:105:GLU:HB3	1:B:105:GLU:H	5	0.2
(1,1262)	1:B:103:LYS:HG2	1:B:103:LYS:H	6	0.2
(1,1262)	1:B:103:LYS:HG3	1:B:103:LYS:H	6	0.2
(1,1259)	1:B:102:GLY:H	1:B:118:PHE:H	7	0.2
(1,1246)	1:B:101:HIS:HB2	1:B:101:HIS:H	1	0.2
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB2	6	0.2
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB3	6	0.2
(1,121)	1:A:78:ASN:HA	1:A:78:ASN:HB2	9	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	3	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	3	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	3	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	3	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	3	0.2
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	3	0.2
(1,119)	1:A:77:VAL:HB	1:A:146:ASP:HB3	3	0.2
(1,1168)	1:B:95:GLY:H	1:B:94:LEU:HG	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1163)	1:B:94:LEU:H	1:B:99:GLU:H	5	0.2
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	8	0.2
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	8	0.2
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	8	0.2
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	8	0.2
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	8	0.2
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	8	0.2
(1,1147)	1:B:92:LYS:H	1:B:100:VAL:HA	2	0.2
(1,1145)	1:B:92:LYS:H	1:B:93:VAL:H	4	0.2
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	5	0.2
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	6	0.2
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	7	0.2
(1,1082)	1:B:85:SER:HB3	1:B:89:LEU:H	2	0.2
(1,1059)	1:B:84:PHE:HD1	1:B:83:HIS:HB3	5	0.2
(1,1059)	1:B:84:PHE:HD2	1:B:83:HIS:HB3	5	0.2
(1,1043)	1:B:83:HIS:HB3	1:B:83:HIS:HD2	1	0.2
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD1	9	0.2
(1,1033)	1:B:81:VAL:HG11	1:B:118:PHE:HD2	9	0.2
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD1	9	0.2
(1,1033)	1:B:81:VAL:HG12	1:B:118:PHE:HD2	9	0.2
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD1	9	0.2
(1,1033)	1:B:81:VAL:HG13	1:B:118:PHE:HD2	9	0.2
(1,1031)	1:B:81:VAL:HG21	1:B:84:PHE:H	4	0.2
(1,1031)	1:B:81:VAL:HG22	1:B:84:PHE:H	4	0.2
(1,1031)	1:B:81:VAL:HG23	1:B:84:PHE:H	4	0.2
(1,1028)	1:B:81:VAL:H	1:B:82:LYS:HA	4	0.2
(1,995)	1:B:78:ASN:HA	1:B:79:LEU:H	4	0.19
(1,988)	1:B:78:ASN:HA	1:B:78:ASN:HB2	3	0.19
(1,988)	1:B:78:ASN:HA	1:B:78:ASN:HB2	4	0.19
(1,975)	1:B:77:VAL:HG11	1:B:79:LEU:H	3	0.19
(1,975)	1:B:77:VAL:HG12	1:B:79:LEU:H	3	0.19
(1,975)	1:B:77:VAL:HG13	1:B:79:LEU:H	3	0.19
(1,952)	1:B:77:VAL:HB	1:B:75:PHE:HD1	5	0.19
(1,952)	1:B:77:VAL:HB	1:B:75:PHE:HD2	5	0.19
(1,945)	1:B:76:SER:HA	1:B:146:ASP:HA	2	0.19
(1,945)	1:B:76:SER:HA	1:B:146:ASP:HA	7	0.19
(1,944)	1:B:76:SER:HB2	1:B:146:ASP:HB3	5	0.19
(1,941)	1:B:76:SER:HA	1:B:146:ASP:HA	2	0.19
(1,941)	1:B:76:SER:HA	1:B:146:ASP:HA	7	0.19
(1,914)	1:B:75:PHE:HA	1:B:75:PHE:HD1	5	0.19
(1,914)	1:B:75:PHE:HA	1:B:75:PHE:HD2	5	0.19
(1,896)	1:B:72:LYS:HB2	1:B:72:LYS:H	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,896)	1:B:72:LYS:HB3	1:B:72:LYS:H	6	0.19
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG2	7	0.19
(1,892)	1:B:71:GLU:H	1:B:71:GLU:HG3	7	0.19
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG2	7	0.19
(1,891)	1:B:71:GLU:H	1:B:69:ARG:HG3	7	0.19
(1,876)	1:B:68:MET:HE1	1:B:68:MET:H	9	0.19
(1,876)	1:B:68:MET:HE2	1:B:68:MET:H	9	0.19
(1,876)	1:B:68:MET:HE3	1:B:68:MET:H	9	0.19
(1,85)	1:A:77:VAL:HB	1:A:75:PHE:HD1	5	0.19
(1,85)	1:A:77:VAL:HB	1:A:75:PHE:HD2	5	0.19
(1,847)	1:A:147:GLY:HA2	1:A:147:GLY:H	3	0.19
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	4	0.19
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	4	0.19
(1,827)	1:A:146:ASP:HB3	1:A:76:SER:HA	6	0.19
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	8	0.19
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	8	0.19
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	3	0.19
(1,816)	1:A:145:VAL:HA	1:A:145:VAL:H	8	0.19
(1,809)	1:A:144:THR:HG21	1:A:146:ASP:HB3	2	0.19
(1,809)	1:A:144:THR:HG22	1:A:146:ASP:HB3	2	0.19
(1,809)	1:A:144:THR:HG23	1:A:146:ASP:HB3	2	0.19
(1,78)	1:A:76:SER:HA	1:A:146:ASP:HA	2	0.19
(1,771)	1:A:141:GLY:HA2	1:A:141:GLY:H	4	0.19
(1,74)	1:A:76:SER:HA	1:A:146:ASP:HA	2	0.19
(1,731)	1:A:134:THR:HG21	1:A:135:SER:H	1	0.19
(1,731)	1:A:134:THR:HG22	1:A:135:SER:H	1	0.19
(1,731)	1:A:134:THR:HG23	1:A:135:SER:H	1	0.19
(1,700)	1:A:132:THR:HG21	1:A:132:THR:H	9	0.19
(1,700)	1:A:132:THR:HG22	1:A:132:THR:H	9	0.19
(1,700)	1:A:132:THR:HG23	1:A:132:THR:H	9	0.19
(1,687)	1:A:130:PRO:HG2	1:A:131:LEU:H	9	0.19
(1,687)	1:A:130:PRO:HG3	1:A:131:LEU:H	9	0.19
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	1	0.19
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	3	0.19
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	6	0.19
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	9	0.19
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD2	4	0.19
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD3	4	0.19
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD2	8	0.19
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD3	8	0.19
(1,576)	1:A:119:HIS:HB3	1:A:119:HIS:HA	3	0.19
(1,576)	1:A:119:HIS:HB3	1:A:119:HIS:HA	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,575)	1:A:119:HIS:HB3	1:A:119:HIS:HA	3	0.19
(1,575)	1:A:119:HIS:HB3	1:A:119:HIS:HA	9	0.19
(1,506)	1:A:114:ILE:HB	1:A:107:ARG:HD3	4	0.19
(1,497)	1:A:113:PHE:HD1	1:A:113:PHE:H	9	0.19
(1,497)	1:A:113:PHE:HD2	1:A:113:PHE:H	9	0.19
(1,478)	1:A:112:GLY:HA2	1:A:112:GLY:H	1	0.19
(1,478)	1:A:112:GLY:HA2	1:A:112:GLY:H	8	0.19
(1,47)	1:A:75:PHE:HA	1:A:75:PHE:HD1	5	0.19
(1,47)	1:A:75:PHE:HA	1:A:75:PHE:HD2	5	0.19
(1,450)	1:A:109:ASP:H	1:A:112:GLY:H	2	0.19
(1,430)	1:A:107:ARG:H	1:A:108:GLN:H	8	0.19
(1,426)	1:A:107:ARG:HD2	1:A:107:ARG:H	5	0.19
(1,417)	1:A:105:GLU:HG2	1:A:106:GLU:H	8	0.19
(1,417)	1:A:105:GLU:HG3	1:A:106:GLU:H	8	0.19
(1,416)	1:A:105:GLU:HG2	1:A:106:GLU:H	8	0.19
(1,416)	1:A:105:GLU:HG3	1:A:106:GLU:H	8	0.19
(1,415)	1:A:105:GLU:HA	1:A:106:GLU:H	7	0.19
(1,383)	1:A:101:HIS:HA	1:A:119:HIS:HD2	8	0.19
(1,350)	1:A:99:GLU:HA	1:A:98:ILE:HG21	9	0.19
(1,350)	1:A:99:GLU:HA	1:A:98:ILE:HG22	9	0.19
(1,350)	1:A:99:GLU:HA	1:A:98:ILE:HG23	9	0.19
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	6	0.19
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	8	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	3	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	3	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	3	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	3	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	3	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	3	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	9	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	9	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	9	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	9	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	9	0.19
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	9	0.19
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	2	0.19
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	2	0.19
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	2	0.19
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	2	0.19
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	2	0.19
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	2	0.19
(1,29)	1:A:72:LYS:HB2	1:A:72:LYS:H	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,29)	1:A:72:LYS:HB3	1:A:72:LYS:H	6	0.19
(1,282)	1:A:93:VAL:H	1:A:92:LYS:HG2	2	0.19
(1,282)	1:A:93:VAL:H	1:A:92:LYS:HG3	2	0.19
(1,280)	1:A:92:LYS:H	1:A:100:VAL:HA	9	0.19
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	1	0.19
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	2	0.19
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	6	0.19
(1,276)	1:A:92:LYS:H	1:A:92:LYS:HA	9	0.19
(1,272)	1:A:92:LYS:H	1:A:91:VAL:HA	1	0.19
(1,260)	1:A:89:LEU:HD21	1:A:103:LYS:H	2	0.19
(1,260)	1:A:89:LEU:HD22	1:A:103:LYS:H	2	0.19
(1,260)	1:A:89:LEU:HD23	1:A:103:LYS:H	2	0.19
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG2	7	0.19
(1,25)	1:A:71:GLU:H	1:A:71:GLU:HG3	7	0.19
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD21	1	0.19
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD22	1	0.19
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD23	1	0.19
(1,228)	1:A:87:GLU:H	1:A:88:GLU:H	3	0.19
(1,228)	1:A:87:GLU:H	1:A:88:GLU:H	8	0.19
(1,225)	1:A:87:GLU:H	1:A:88:GLU:H	3	0.19
(1,225)	1:A:87:GLU:H	1:A:88:GLU:H	8	0.19
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	3	0.19
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	3	0.19
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	7	0.19
(1,1714)	1:B:147:GLY:HA2	1:B:147:GLY:H	3	0.19
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	4	0.19
(1,170)	1:A:83:HIS:H	1:A:81:VAL:HB	3	0.19
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	4	0.19
(1,1694)	1:B:146:ASP:HB3	1:B:76:SER:HA	6	0.19
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	8	0.19
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	8	0.19
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	2	0.19
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	3	0.19
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	7	0.19
(1,1683)	1:B:145:VAL:HA	1:B:145:VAL:H	8	0.19
(1,1661)	1:B:144:THR:HG21	1:B:78:ASN:HA	4	0.19
(1,1661)	1:B:144:THR:HG22	1:B:78:ASN:HA	4	0.19
(1,1661)	1:B:144:THR:HG23	1:B:78:ASN:HA	4	0.19
(1,1638)	1:B:141:GLY:HA2	1:B:141:GLY:H	4	0.19
(1,1598)	1:B:134:THR:HG21	1:B:135:SER:H	1	0.19
(1,1598)	1:B:134:THR:HG22	1:B:135:SER:H	1	0.19
(1,1598)	1:B:134:THR:HG23	1:B:135:SER:H	1	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1567)	1:B:132:THR:HG21	1:B:132:THR:H	9	0.19
(1,1567)	1:B:132:THR:HG22	1:B:132:THR:H	9	0.19
(1,1567)	1:B:132:THR:HG23	1:B:132:THR:H	9	0.19
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	1	0.19
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	3	0.19
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD2	4	0.19
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD3	4	0.19
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD2	8	0.19
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD3	8	0.19
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG21	2	0.19
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG22	2	0.19
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG23	2	0.19
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG21	2	0.19
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG22	2	0.19
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG23	2	0.19
(1,1443)	1:B:119:HIS:HB3	1:B:119:HIS:HA	3	0.19
(1,1443)	1:B:119:HIS:HB3	1:B:119:HIS:HA	9	0.19
(1,1442)	1:B:119:HIS:HB3	1:B:119:HIS:HA	3	0.19
(1,1442)	1:B:119:HIS:HB3	1:B:119:HIS:HA	9	0.19
(1,138)	1:A:79:LEU:HD11	1:A:79:LEU:HA	1	0.19
(1,138)	1:A:79:LEU:HD12	1:A:79:LEU:HA	1	0.19
(1,138)	1:A:79:LEU:HD13	1:A:79:LEU:HA	1	0.19
(1,138)	1:A:79:LEU:HD21	1:A:79:LEU:HA	1	0.19
(1,138)	1:A:79:LEU:HD22	1:A:79:LEU:HA	1	0.19
(1,138)	1:A:79:LEU:HD23	1:A:79:LEU:HA	1	0.19
(1,1373)	1:B:114:ILE:HB	1:B:107:ARG:HD3	4	0.19
(1,1364)	1:B:113:PHE:HD1	1:B:113:PHE:H	9	0.19
(1,1364)	1:B:113:PHE:HD2	1:B:113:PHE:H	9	0.19
(1,1345)	1:B:112:GLY:HA2	1:B:112:GLY:H	1	0.19
(1,1345)	1:B:112:GLY:HA2	1:B:112:GLY:H	8	0.19
(1,1331)	1:B:111:HIS:H	1:B:111:HIS:HD2	8	0.19
(1,1317)	1:B:109:ASP:H	1:B:112:GLY:H	2	0.19
(1,1297)	1:B:107:ARG:H	1:B:108:GLN:H	8	0.19
(1,1293)	1:B:107:ARG:HD2	1:B:107:ARG:H	5	0.19
(1,1284)	1:B:105:GLU:HG2	1:B:106:GLU:H	8	0.19
(1,1284)	1:B:105:GLU:HG3	1:B:106:GLU:H	8	0.19
(1,1283)	1:B:105:GLU:HG2	1:B:106:GLU:H	8	0.19
(1,1283)	1:B:105:GLU:HG3	1:B:106:GLU:H	8	0.19
(1,128)	1:A:78:ASN:HA	1:A:79:LEU:H	4	0.19
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD11	5	0.19
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD12	5	0.19
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD13	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD21	5	0.19
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD22	5	0.19
(1,127)	1:A:78:ASN:HA	1:A:79:LEU:HD23	5	0.19
(1,1250)	1:B:101:HIS:HA	1:B:119:HIS:HD2	8	0.19
(1,1245)	1:B:101:HIS:HB3	1:B:101:HIS:H	9	0.19
(1,1217)	1:B:99:GLU:HA	1:B:98:ILE:HG21	9	0.19
(1,1217)	1:B:99:GLU:HA	1:B:98:ILE:HG22	9	0.19
(1,1217)	1:B:99:GLU:HA	1:B:98:ILE:HG23	9	0.19
(1,121)	1:A:78:ASN:HA	1:A:78:ASN:HB2	3	0.19
(1,121)	1:A:78:ASN:HA	1:A:78:ASN:HB2	4	0.19
(1,121)	1:A:78:ASN:HA	1:A:78:ASN:HB2	5	0.19
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	6	0.19
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	8	0.19
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	9	0.19
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	9	0.19
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	9	0.19
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	9	0.19
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	9	0.19
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	9	0.19
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	2	0.19
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	2	0.19
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	2	0.19
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	2	0.19
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	2	0.19
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	2	0.19
(1,1149)	1:B:93:VAL:H	1:B:92:LYS:HG2	2	0.19
(1,1149)	1:B:93:VAL:H	1:B:92:LYS:HG3	2	0.19
(1,1147)	1:B:92:LYS:H	1:B:100:VAL:HA	9	0.19
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	1	0.19
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	2	0.19
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	3	0.19
(1,1143)	1:B:92:LYS:H	1:B:92:LYS:HA	9	0.19
(1,1139)	1:B:92:LYS:H	1:B:91:VAL:HA	1	0.19
(1,1127)	1:B:89:LEU:HD21	1:B:103:LYS:H	2	0.19
(1,1127)	1:B:89:LEU:HD22	1:B:103:LYS:H	2	0.19
(1,1127)	1:B:89:LEU:HD23	1:B:103:LYS:H	2	0.19
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD21	1	0.19
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD22	1	0.19
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD23	1	0.19
(1,1095)	1:B:87:GLU:H	1:B:88:GLU:H	3	0.19
(1,1095)	1:B:87:GLU:H	1:B:88:GLU:H	8	0.19
(1,1092)	1:B:87:GLU:H	1:B:88:GLU:H	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1092)	1:B:87:GLU:H	1:B:88:GLU:H	8	0.19
(1,108)	1:A:77:VAL:HG11	1:A:79:LEU:H	3	0.19
(1,108)	1:A:77:VAL:HG12	1:A:79:LEU:H	3	0.19
(1,108)	1:A:77:VAL:HG13	1:A:79:LEU:H	3	0.19
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	3	0.19
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	3	0.19
(1,1037)	1:B:83:HIS:H	1:B:81:VAL:HB	3	0.19
(1,1005)	1:B:79:LEU:HD11	1:B:79:LEU:HA	1	0.19
(1,1005)	1:B:79:LEU:HD12	1:B:79:LEU:HA	1	0.19
(1,1005)	1:B:79:LEU:HD13	1:B:79:LEU:HA	1	0.19
(1,1005)	1:B:79:LEU:HD21	1:B:79:LEU:HA	1	0.19
(1,1005)	1:B:79:LEU:HD22	1:B:79:LEU:HA	1	0.19
(1,1005)	1:B:79:LEU:HD23	1:B:79:LEU:HA	1	0.19
(1,996)	1:B:78:ASN:HB3	1:B:79:LEU:H	2	0.18
(1,996)	1:B:78:ASN:HB3	1:B:79:LEU:H	9	0.18
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD11	5	0.18
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD12	5	0.18
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD13	5	0.18
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD21	5	0.18
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD22	5	0.18
(1,994)	1:B:78:ASN:HA	1:B:79:LEU:HD23	5	0.18
(1,988)	1:B:78:ASN:HA	1:B:78:ASN:HB2	2	0.18
(1,970)	1:B:77:VAL:H	1:B:78:ASN:H	8	0.18
(1,952)	1:B:77:VAL:HB	1:B:75:PHE:HD1	3	0.18
(1,952)	1:B:77:VAL:HB	1:B:75:PHE:HD2	3	0.18
(1,923)	1:B:75:PHE:HD1	1:B:148:PRO:HA	7	0.18
(1,923)	1:B:75:PHE:HD2	1:B:148:PRO:HA	7	0.18
(1,921)	1:B:75:PHE:HD1	1:B:146:ASP:HB3	1	0.18
(1,921)	1:B:75:PHE:HD2	1:B:146:ASP:HB3	1	0.18
(1,895)	1:B:72:LYS:H	1:B:72:LYS:HA	7	0.18
(1,863)	1:A:150:LYS:H	1:A:151:GLN:H	3	0.18
(1,860)	1:A:150:LYS:H	1:A:151:GLN:H	3	0.18
(1,856)	1:A:150:LYS:H	1:A:149:ARG:H	5	0.18
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	4	0.18
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	4	0.18
(1,85)	1:A:77:VAL:HB	1:A:75:PHE:HD1	3	0.18
(1,85)	1:A:77:VAL:HB	1:A:75:PHE:HD2	3	0.18
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	2	0.18
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	7	0.18
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	8	0.18
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	2	0.18
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	8	0.18
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	5	0.18
(1,820)	1:A:145:VAL:HG11	1:A:146:ASP:HB2	5	0.18
(1,820)	1:A:145:VAL:HG12	1:A:146:ASP:HB2	5	0.18
(1,820)	1:A:145:VAL:HG13	1:A:146:ASP:HB2	5	0.18
(1,817)	1:A:145:VAL:HB	1:A:145:VAL:H	4	0.18
(1,817)	1:A:145:VAL:HB	1:A:145:VAL:H	7	0.18
(1,802)	1:A:144:THR:HB	1:A:144:THR:H	8	0.18
(1,794)	1:A:144:THR:HG21	1:A:78:ASN:HA	5	0.18
(1,794)	1:A:144:THR:HG22	1:A:78:ASN:HA	5	0.18
(1,794)	1:A:144:THR:HG23	1:A:78:ASN:HA	5	0.18
(1,746)	1:A:136:SER:H	1:A:135:SER:H	1	0.18
(1,705)	1:A:132:THR:HG1	1:A:133:ILE:H	7	0.18
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	2	0.18
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	2	0.18
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	5	0.18
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	8	0.18
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD1	4	0.18
(1,643)	1:A:125:PRO:HD2	1:A:122:TYR:HD2	4	0.18
(1,616)	1:A:124:ILE:HD11	1:A:97:VAL:H	6	0.18
(1,616)	1:A:124:ILE:HD12	1:A:97:VAL:H	6	0.18
(1,616)	1:A:124:ILE:HD13	1:A:97:VAL:H	6	0.18
(1,590)	1:A:122:TYR:HA	1:A:98:ILE:H	2	0.18
(1,572)	1:A:119:HIS:HB2	1:A:119:HIS:HA	8	0.18
(1,56)	1:A:75:PHE:HD1	1:A:148:PRO:HA	7	0.18
(1,56)	1:A:75:PHE:HD2	1:A:148:PRO:HA	7	0.18
(1,54)	1:A:75:PHE:HD1	1:A:146:ASP:HB3	1	0.18
(1,54)	1:A:75:PHE:HD2	1:A:146:ASP:HB3	1	0.18
(1,535)	1:A:116:ARG:H	1:A:104:HIS:H	4	0.18
(1,534)	1:A:116:ARG:H	1:A:104:HIS:H	4	0.18
(1,533)	1:A:115:SER:HB2	1:A:116:ARG:H	9	0.18
(1,482)	1:A:113:PHE:HD1	1:A:107:ARG:HA	2	0.18
(1,482)	1:A:113:PHE:HD2	1:A:107:ARG:HA	2	0.18
(1,478)	1:A:112:GLY:HA2	1:A:112:GLY:H	2	0.18
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	1	0.18
(1,445)	1:A:108:GLN:HA	1:A:113:PHE:H	5	0.18
(1,427)	1:A:107:ARG:HB3	1:A:107:ARG:H	1	0.18
(1,425)	1:A:107:ARG:HA	1:A:107:ARG:H	5	0.18
(1,390)	1:A:102:GLY:HA2	1:A:103:LYS:H	4	0.18
(1,379)	1:A:101:HIS:HB2	1:A:101:HIS:H	4	0.18
(1,378)	1:A:101:HIS:HB3	1:A:101:HIS:H	9	0.18
(1,369)	1:A:101:HIS:H	1:A:100:VAL:HA	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB2	4	0.18
(1,368)	1:A:101:HIS:HB2	1:A:92:LYS:HB3	4	0.18
(1,330)	1:A:97:VAL:HA	1:A:123:ARG:HA	7	0.18
(1,329)	1:A:97:VAL:HA	1:A:123:ARG:HA	7	0.18
(1,28)	1:A:72:LYS:H	1:A:72:LYS:HA	7	0.18
(1,254)	1:A:89:LEU:HD11	1:A:91:VAL:HB	5	0.18
(1,254)	1:A:89:LEU:HD12	1:A:91:VAL:HB	5	0.18
(1,254)	1:A:89:LEU:HD13	1:A:91:VAL:HB	5	0.18
(1,248)	1:A:89:LEU:HD11	1:A:89:LEU:H	3	0.18
(1,248)	1:A:89:LEU:HD12	1:A:89:LEU:H	3	0.18
(1,248)	1:A:89:LEU:HD13	1:A:89:LEU:H	3	0.18
(1,228)	1:A:87:GLU:H	1:A:88:GLU:H	7	0.18
(1,225)	1:A:87:GLU:H	1:A:88:GLU:H	7	0.18
(1,191)	1:A:84:PHE:HD1	1:A:82:LYS:H	2	0.18
(1,191)	1:A:84:PHE:HD2	1:A:82:LYS:H	2	0.18
(1,1730)	1:B:150:LYS:H	1:B:151:GLN:H	3	0.18
(1,1727)	1:B:150:LYS:H	1:B:151:GLN:H	3	0.18
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	4	0.18
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	4	0.18
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	2	0.18
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	7	0.18
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	8	0.18
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	2	0.18
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	7	0.18
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	8	0.18
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	4	0.18
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	4	0.18
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	5	0.18
(1,1687)	1:B:145:VAL:HG11	1:B:146:ASP:HB2	5	0.18
(1,1687)	1:B:145:VAL:HG12	1:B:146:ASP:HB2	5	0.18
(1,1687)	1:B:145:VAL:HG13	1:B:146:ASP:HB2	5	0.18
(1,1684)	1:B:145:VAL:HB	1:B:145:VAL:H	7	0.18
(1,1676)	1:B:144:THR:HG21	1:B:146:ASP:HB3	2	0.18
(1,1676)	1:B:144:THR:HG22	1:B:146:ASP:HB3	2	0.18
(1,1676)	1:B:144:THR:HG23	1:B:146:ASP:HB3	2	0.18
(1,1669)	1:B:144:THR:HB	1:B:144:THR:H	8	0.18
(1,1661)	1:B:144:THR:HG21	1:B:78:ASN:HA	5	0.18
(1,1661)	1:B:144:THR:HG22	1:B:78:ASN:HA	5	0.18
(1,1661)	1:B:144:THR:HG23	1:B:78:ASN:HA	5	0.18
(1,1613)	1:B:136:SER:H	1:B:135:SER:H	1	0.18
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	2	0.18
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	5	0.18
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	6	0.18
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	8	0.18
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	9	0.18
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD1	4	0.18
(1,1510)	1:B:125:PRO:HD2	1:B:122:TYR:HD2	4	0.18
(1,1483)	1:B:124:ILE:HD11	1:B:97:VAL:H	6	0.18
(1,1483)	1:B:124:ILE:HD12	1:B:97:VAL:H	6	0.18
(1,1483)	1:B:124:ILE:HD13	1:B:97:VAL:H	6	0.18
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	6	0.18
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	7	0.18
(1,1457)	1:B:122:TYR:HA	1:B:98:ILE:H	2	0.18
(1,1439)	1:B:119:HIS:HB2	1:B:119:HIS:HA	8	0.18
(1,1402)	1:B:116:ARG:H	1:B:104:HIS:H	4	0.18
(1,1401)	1:B:116:ARG:H	1:B:104:HIS:H	4	0.18
(1,1400)	1:B:115:SER:HB2	1:B:116:ARG:H	9	0.18
(1,1349)	1:B:113:PHE:HD1	1:B:107:ARG:HA	2	0.18
(1,1349)	1:B:113:PHE:HD2	1:B:107:ARG:HA	2	0.18
(1,1345)	1:B:112:GLY:HA2	1:B:112:GLY:H	2	0.18
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	1	0.18
(1,1312)	1:B:108:GLN:HA	1:B:113:PHE:H	5	0.18
(1,1294)	1:B:107:ARG:HB3	1:B:107:ARG:H	1	0.18
(1,1292)	1:B:107:ARG:HA	1:B:107:ARG:H	5	0.18
(1,129)	1:A:78:ASN:HB3	1:A:79:LEU:H	2	0.18
(1,129)	1:A:78:ASN:HB3	1:A:79:LEU:H	9	0.18
(1,1257)	1:B:102:GLY:HA2	1:B:103:LYS:H	4	0.18
(1,1246)	1:B:101:HIS:HB2	1:B:101:HIS:H	4	0.18
(1,1236)	1:B:101:HIS:H	1:B:100:VAL:HA	5	0.18
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB2	4	0.18
(1,1235)	1:B:101:HIS:HB2	1:B:92:LYS:HB3	4	0.18
(1,121)	1:A:78:ASN:HA	1:A:78:ASN:HB2	2	0.18
(1,1197)	1:B:97:VAL:HA	1:B:123:ARG:HA	7	0.18
(1,1196)	1:B:97:VAL:HA	1:B:123:ARG:HA	7	0.18
(1,1121)	1:B:89:LEU:HD11	1:B:91:VAL:HB	5	0.18
(1,1121)	1:B:89:LEU:HD12	1:B:91:VAL:HB	5	0.18
(1,1121)	1:B:89:LEU:HD13	1:B:91:VAL:HB	5	0.18
(1,1115)	1:B:89:LEU:HD11	1:B:89:LEU:H	3	0.18
(1,1115)	1:B:89:LEU:HD12	1:B:89:LEU:H	3	0.18
(1,1115)	1:B:89:LEU:HD13	1:B:89:LEU:H	3	0.18
(1,1095)	1:B:87:GLU:H	1:B:88:GLU:H	7	0.18
(1,1092)	1:B:87:GLU:H	1:B:88:GLU:H	7	0.18
(1,1058)	1:B:84:PHE:HD1	1:B:82:LYS:H	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1058)	1:B:84:PHE:HD2	1:B:82:LYS:H	2	0.18
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	5	0.18
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	7	0.18
(1,103)	1:A:77:VAL:H	1:A:78:ASN:H	8	0.18
(1,1024)	1:B:81:VAL:HG21	1:B:81:VAL:H	4	0.18
(1,1024)	1:B:81:VAL:HG22	1:B:81:VAL:H	4	0.18
(1,1024)	1:B:81:VAL:HG23	1:B:81:VAL:H	4	0.18
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	6	0.18
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	7	0.18
(1,997)	1:B:78:ASN:HB2	1:B:79:LEU:H	8	0.17
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	8	0.17
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	8	0.17
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	8	0.17
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD1	7	0.17
(1,979)	1:B:77:VAL:HG11	1:B:122:TYR:HD2	7	0.17
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD1	7	0.17
(1,979)	1:B:77:VAL:HG12	1:B:122:TYR:HD2	7	0.17
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD1	7	0.17
(1,979)	1:B:77:VAL:HG13	1:B:122:TYR:HD2	7	0.17
(1,970)	1:B:77:VAL:H	1:B:78:ASN:H	4	0.17
(1,896)	1:B:72:LYS:HB2	1:B:72:LYS:H	1	0.17
(1,896)	1:B:72:LYS:HB3	1:B:72:LYS:H	1	0.17
(1,896)	1:B:72:LYS:HB2	1:B:72:LYS:H	5	0.17
(1,896)	1:B:72:LYS:HB3	1:B:72:LYS:H	5	0.17
(1,895)	1:B:72:LYS:H	1:B:72:LYS:HA	9	0.17
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	2	0.17
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	3	0.17
(1,872)	1:B:67:GLU:H	1:B:67:GLU:HA	8	0.17
(1,856)	1:A:150:LYS:H	1:A:149:ARG:H	9	0.17
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	3	0.17
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	3	0.17
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	1	0.17
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	5	0.17
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	1	0.17
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	5	0.17
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	4	0.17
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	4	0.17
(1,822)	1:A:145:VAL:HA	1:A:146:ASP:H	6	0.17
(1,708)	1:A:132:THR:H	1:A:133:ILE:H	4	0.17
(1,706)	1:A:132:THR:H	1:A:133:ILE:H	4	0.17
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	3	0.17
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	5	0.17
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	7	0.17
(1,660)	1:A:126:ALA:HA	1:A:128:VAL:H	7	0.17
(1,656)	1:A:125:PRO:HA	1:A:127:ASP:H	6	0.17
(1,650)	1:A:125:PRO:HD3	1:A:124:ILE:HB	4	0.17
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD2	5	0.17
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD3	5	0.17
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD2	9	0.17
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD3	9	0.17
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	5	0.17
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	5	0.17
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	5	0.17
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	5	0.17
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD11	1	0.17
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD12	1	0.17
(1,588)	1:A:122:TYR:HB2	1:A:98:ILE:HD13	1	0.17
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD11	1	0.17
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD12	1	0.17
(1,588)	1:A:122:TYR:HB3	1:A:98:ILE:HD13	1	0.17
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	2	0.17
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	3	0.17
(1,5)	1:A:67:GLU:H	1:A:67:GLU:HA	8	0.17
(1,471)	1:A:111:HIS:H	1:A:112:GLY:H	3	0.17
(1,468)	1:A:111:HIS:H	1:A:112:GLY:H	3	0.17
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	3	0.17
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	7	0.17
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	9	0.17
(1,430)	1:A:107:ARG:H	1:A:108:GLN:H	1	0.17
(1,430)	1:A:107:ARG:H	1:A:108:GLN:H	5	0.17
(1,418)	1:A:105:GLU:HG2	1:A:115:SER:HB3	7	0.17
(1,418)	1:A:105:GLU:HG3	1:A:115:SER:HB3	7	0.17
(1,387)	1:A:102:GLY:HA3	1:A:102:GLY:H	7	0.17
(1,379)	1:A:101:HIS:HB2	1:A:101:HIS:H	5	0.17
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	2	0.17
(1,351)	1:A:99:GLU:HA	1:A:99:GLU:H	1	0.17
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	1	0.17
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	4	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	4	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	4	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	4	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	4	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	4	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	8	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	8	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	8	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	8	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	8	0.17
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	8	0.17
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	8	0.17
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	8	0.17
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	8	0.17
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	8	0.17
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	8	0.17
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	8	0.17
(1,29)	1:A:72:LYS:HB2	1:A:72:LYS:H	1	0.17
(1,29)	1:A:72:LYS:HB3	1:A:72:LYS:H	1	0.17
(1,29)	1:A:72:LYS:HB2	1:A:72:LYS:H	5	0.17
(1,29)	1:A:72:LYS:HB3	1:A:72:LYS:H	5	0.17
(1,28)	1:A:72:LYS:H	1:A:72:LYS:HA	9	0.17
(1,267)	1:A:90:LYS:HB2	1:A:101:HIS:HB3	4	0.17
(1,267)	1:A:90:LYS:HB3	1:A:101:HIS:HB3	4	0.17
(1,260)	1:A:89:LEU:HD21	1:A:103:LYS:H	3	0.17
(1,260)	1:A:89:LEU:HD22	1:A:103:LYS:H	3	0.17
(1,260)	1:A:89:LEU:HD23	1:A:103:LYS:H	3	0.17
(1,260)	1:A:89:LEU:HD21	1:A:103:LYS:H	6	0.17
(1,260)	1:A:89:LEU:HD22	1:A:103:LYS:H	6	0.17
(1,260)	1:A:89:LEU:HD23	1:A:103:LYS:H	6	0.17
(1,250)	1:A:89:LEU:HD21	1:A:89:LEU:H	6	0.17
(1,250)	1:A:89:LEU:HD22	1:A:89:LEU:H	6	0.17
(1,250)	1:A:89:LEU:HD23	1:A:89:LEU:H	6	0.17
(1,195)	1:A:84:PHE:HD1	1:A:84:PHE:H	7	0.17
(1,195)	1:A:84:PHE:HD2	1:A:84:PHE:H	7	0.17
(1,1752)	1:A:118:PHE:HA	1:B:116:ARG:HA	1	0.17
(1,175)	1:A:83:HIS:HA	1:A:83:HIS:HB3	7	0.17
(1,174)	1:A:83:HIS:HA	1:A:83:HIS:HB3	7	0.17
(1,1723)	1:B:150:LYS:H	1:B:149:ARG:H	5	0.17
(1,1723)	1:B:150:LYS:H	1:B:149:ARG:H	9	0.17
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	3	0.17
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	3	0.17
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	1	0.17
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	5	0.17
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	1	0.17
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1692)	1:B:146:ASP:HB2	1:B:76:SER:HA	3	0.17
(1,1691)	1:B:146:ASP:HB2	1:B:76:SER:HA	3	0.17
(1,1689)	1:B:145:VAL:HA	1:B:146:ASP:H	6	0.17
(1,168)	1:A:81:VAL:HG21	1:A:143:LEU:HA	6	0.17
(1,168)	1:A:81:VAL:HG22	1:A:143:LEU:HA	6	0.17
(1,168)	1:A:81:VAL:HG23	1:A:143:LEU:HA	6	0.17
(1,1622)	1:B:138:SER:H	1:B:137:LEU:H	8	0.17
(1,1575)	1:B:132:THR:H	1:B:133:ILE:H	4	0.17
(1,1573)	1:B:132:THR:H	1:B:133:ILE:H	4	0.17
(1,157)	1:A:81:VAL:HG21	1:A:81:VAL:H	4	0.17
(1,157)	1:A:81:VAL:HG22	1:A:81:VAL:H	4	0.17
(1,157)	1:A:81:VAL:HG23	1:A:81:VAL:H	4	0.17
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	3	0.17
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	9	0.17
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	5	0.17
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	7	0.17
(1,1527)	1:B:126:ALA:HA	1:B:128:VAL:H	7	0.17
(1,1523)	1:B:125:PRO:HA	1:B:127:ASP:H	6	0.17
(1,1517)	1:B:125:PRO:HD3	1:B:124:ILE:HB	4	0.17
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	3	0.17
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	5	0.17
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	9	0.17
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD2	5	0.17
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD3	5	0.17
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD2	9	0.17
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD3	9	0.17
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	5	0.17
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	5	0.17
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	5	0.17
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	5	0.17
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD11	1	0.17
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD12	1	0.17
(1,1455)	1:B:122:TYR:HB2	1:B:98:ILE:HD13	1	0.17
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD11	1	0.17
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD12	1	0.17
(1,1455)	1:B:122:TYR:HB3	1:B:98:ILE:HD13	1	0.17
(1,1338)	1:B:111:HIS:H	1:B:112:GLY:H	3	0.17
(1,1335)	1:B:111:HIS:H	1:B:112:GLY:H	3	0.17
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	3	0.17
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	9	0.17
(1,130)	1:A:78:ASN:HB2	1:A:79:LEU:H	8	0.17
(1,1297)	1:B:107:ARG:H	1:B:108:GLN:H	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1297)	1:B:107:ARG:H	1:B:108:GLN:H	5	0.17
(1,1285)	1:B:105:GLU:HG2	1:B:115:SER:HB3	7	0.17
(1,1285)	1:B:105:GLU:HG3	1:B:115:SER:HB3	7	0.17
(1,1254)	1:B:102:GLY:HA3	1:B:102:GLY:H	7	0.17
(1,1246)	1:B:101:HIS:HB2	1:B:101:HIS:H	5	0.17
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	2	0.17
(1,1218)	1:B:99:GLU:HA	1:B:99:GLU:H	1	0.17
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	1	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	4	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	4	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	4	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	4	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	4	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	4	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	8	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	8	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	8	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	8	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	8	0.17
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	8	0.17
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	8	0.17
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	8	0.17
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	8	0.17
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	8	0.17
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	8	0.17
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	8	0.17
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	8	0.17
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	8	0.17
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	8	0.17
(1,1134)	1:B:90:LYS:HB2	1:B:101:HIS:HB3	4	0.17
(1,1134)	1:B:90:LYS:HB3	1:B:101:HIS:HB3	4	0.17
(1,1127)	1:B:89:LEU:HD21	1:B:103:LYS:H	3	0.17
(1,1127)	1:B:89:LEU:HD22	1:B:103:LYS:H	3	0.17
(1,1127)	1:B:89:LEU:HD23	1:B:103:LYS:H	3	0.17
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD1	7	0.17
(1,112)	1:A:77:VAL:HG11	1:A:122:TYR:HD2	7	0.17
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD1	7	0.17
(1,112)	1:A:77:VAL:HG12	1:A:122:TYR:HD2	7	0.17
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD1	7	0.17
(1,112)	1:A:77:VAL:HG13	1:A:122:TYR:HD2	7	0.17
(1,1117)	1:B:89:LEU:HD21	1:B:89:LEU:H	6	0.17
(1,1117)	1:B:89:LEU:HD22	1:B:89:LEU:H	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1117)	1:B:89:LEU:HD23	1:B:89:LEU:H	6	0.17
(1,1062)	1:B:84:PHE:HD1	1:B:84:PHE:H	7	0.17
(1,1062)	1:B:84:PHE:HD2	1:B:84:PHE:H	7	0.17
(1,1045)	1:B:83:HIS:HB3	1:B:83:HIS:H	6	0.17
(1,1042)	1:B:83:HIS:HA	1:B:83:HIS:HB3	7	0.17
(1,1041)	1:B:83:HIS:HA	1:B:83:HIS:HB3	7	0.17
(1,1035)	1:B:81:VAL:HG21	1:B:143:LEU:HA	6	0.17
(1,1035)	1:B:81:VAL:HG22	1:B:143:LEU:HA	6	0.17
(1,1035)	1:B:81:VAL:HG23	1:B:143:LEU:HA	6	0.17
(1,103)	1:A:77:VAL:H	1:A:78:ASN:H	4	0.17
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	3	0.17
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	5	0.17
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	9	0.17
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	3	0.16
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	3	0.16
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	3	0.16
(1,982)	1:B:77:VAL:HG11	1:B:145:VAL:H	4	0.16
(1,982)	1:B:77:VAL:HG12	1:B:145:VAL:H	4	0.16
(1,982)	1:B:77:VAL:HG13	1:B:145:VAL:H	4	0.16
(1,970)	1:B:77:VAL:H	1:B:78:ASN:H	7	0.16
(1,947)	1:B:77:VAL:HA	1:B:68:MET:HA	5	0.16
(1,896)	1:B:72:LYS:HB2	1:B:72:LYS:H	9	0.16
(1,896)	1:B:72:LYS:HB3	1:B:72:LYS:H	9	0.16
(1,856)	1:A:150:LYS:H	1:A:149:ARG:H	2	0.16
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	3	0.16
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	3	0.16
(1,827)	1:A:146:ASP:HB3	1:A:76:SER:HA	2	0.16
(1,826)	1:A:146:ASP:HB3	1:A:76:SER:HA	2	0.16
(1,825)	1:A:146:ASP:HB2	1:A:76:SER:HA	3	0.16
(1,824)	1:A:146:ASP:HB2	1:A:76:SER:HA	3	0.16
(1,808)	1:A:144:THR:H	1:A:145:VAL:H	4	0.16
(1,803)	1:A:144:THR:H	1:A:145:VAL:H	4	0.16
(1,80)	1:A:77:VAL:HA	1:A:68:MET:HA	5	0.16
(1,785)	1:A:142:VAL:HG11	1:A:143:LEU:H	2	0.16
(1,785)	1:A:142:VAL:HG12	1:A:143:LEU:H	2	0.16
(1,785)	1:A:142:VAL:HG13	1:A:143:LEU:H	2	0.16
(1,785)	1:A:142:VAL:HG21	1:A:143:LEU:H	2	0.16
(1,785)	1:A:142:VAL:HG22	1:A:143:LEU:H	2	0.16
(1,785)	1:A:142:VAL:HG23	1:A:143:LEU:H	2	0.16
(1,755)	1:A:138:SER:H	1:A:137:LEU:H	2	0.16
(1,755)	1:A:138:SER:H	1:A:137:LEU:H	8	0.16
(1,675)	1:A:128:VAL:H	1:A:126:ALA:H	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	4	0.16
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	4	0.16
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	4	0.16
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	4	0.16
(1,551)	1:A:118:PHE:HD1	1:A:103:LYS:HA	4	0.16
(1,551)	1:A:118:PHE:HD2	1:A:103:LYS:HA	4	0.16
(1,471)	1:A:111:HIS:H	1:A:112:GLY:H	9	0.16
(1,468)	1:A:111:HIS:H	1:A:112:GLY:H	9	0.16
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD1	7	0.16
(1,437)	1:A:107:ARG:HB2	1:A:113:PHE:HD2	7	0.16
(1,424)	1:A:107:ARG:HG2	1:A:107:ARG:HA	5	0.16
(1,424)	1:A:107:ARG:HG3	1:A:107:ARG:HA	5	0.16
(1,417)	1:A:105:GLU:HG2	1:A:106:GLU:H	2	0.16
(1,417)	1:A:105:GLU:HG3	1:A:106:GLU:H	2	0.16
(1,358)	1:A:100:VAL:HG11	1:A:92:LYS:H	3	0.16
(1,358)	1:A:100:VAL:HG12	1:A:92:LYS:H	3	0.16
(1,358)	1:A:100:VAL:HG13	1:A:92:LYS:H	3	0.16
(1,358)	1:A:100:VAL:HG11	1:A:92:LYS:H	4	0.16
(1,358)	1:A:100:VAL:HG12	1:A:92:LYS:H	4	0.16
(1,358)	1:A:100:VAL:HG13	1:A:92:LYS:H	4	0.16
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	6	0.16
(1,335)	1:A:98:ILE:H	1:A:97:VAL:H	2	0.16
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG11	5	0.16
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG12	5	0.16
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG13	5	0.16
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG21	5	0.16
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG22	5	0.16
(1,327)	1:A:97:VAL:HA	1:A:97:VAL:HG23	5	0.16
(1,282)	1:A:93:VAL:H	1:A:92:LYS:HG2	1	0.16
(1,282)	1:A:93:VAL:H	1:A:92:LYS:HG3	1	0.16
(1,260)	1:A:89:LEU:HD21	1:A:103:LYS:H	8	0.16
(1,260)	1:A:89:LEU:HD22	1:A:103:LYS:H	8	0.16
(1,260)	1:A:89:LEU:HD23	1:A:103:LYS:H	8	0.16
(1,250)	1:A:89:LEU:HD21	1:A:89:LEU:H	8	0.16
(1,250)	1:A:89:LEU:HD22	1:A:89:LEU:H	8	0.16
(1,250)	1:A:89:LEU:HD23	1:A:89:LEU:H	8	0.16
(1,236)	1:A:89:LEU:HD21	1:A:85:SER:HB3	5	0.16
(1,236)	1:A:89:LEU:HD22	1:A:85:SER:HB3	5	0.16
(1,236)	1:A:89:LEU:HD23	1:A:85:SER:HB3	5	0.16
(1,216)	1:A:85:SER:HB2	1:A:89:LEU:H	5	0.16
(1,215)	1:A:85:SER:HB3	1:A:89:LEU:H	9	0.16
(1,203)	1:A:84:PHE:HE1	1:A:116:ARG:H	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,203)	1:A:84:PHE:HE2	1:A:116:ARG:H	8	0.16
(1,195)	1:A:84:PHE:HD1	1:A:84:PHE:H	4	0.16
(1,195)	1:A:84:PHE:HD2	1:A:84:PHE:H	4	0.16
(1,193)	1:A:84:PHE:HD1	1:A:83:HIS:HA	4	0.16
(1,193)	1:A:84:PHE:HD2	1:A:83:HIS:HA	4	0.16
(1,178)	1:A:83:HIS:HB3	1:A:83:HIS:H	6	0.16
(1,1770)	1:A:123:ARG:HD2	1:B:113:PHE:H	3	0.16
(1,1770)	1:A:123:ARG:HD3	1:B:113:PHE:H	3	0.16
(1,1723)	1:B:150:LYS:H	1:B:149:ARG:H	2	0.16
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	3	0.16
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	3	0.16
(1,1694)	1:B:146:ASP:HB3	1:B:76:SER:HA	2	0.16
(1,1693)	1:B:146:ASP:HB3	1:B:76:SER:HA	2	0.16
(1,1684)	1:B:145:VAL:HB	1:B:145:VAL:H	4	0.16
(1,1675)	1:B:144:THR:H	1:B:145:VAL:H	4	0.16
(1,1670)	1:B:144:THR:H	1:B:145:VAL:H	4	0.16
(1,167)	1:A:81:VAL:H	1:A:141:GLY:HA2	7	0.16
(1,1622)	1:B:138:SER:H	1:B:137:LEU:H	2	0.16
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG21	3	0.16
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG22	3	0.16
(1,1605)	1:B:135:SER:HA	1:B:145:VAL:HG23	3	0.16
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	9	0.16
(1,159)	1:A:81:VAL:H	1:A:82:LYS:H	9	0.16
(1,1542)	1:B:128:VAL:H	1:B:126:ALA:H	6	0.16
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	2	0.16
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	4	0.16
(1,148)	1:A:80:ASP:H	1:A:80:ASP:HB3	8	0.16
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	4	0.16
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	4	0.16
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	4	0.16
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	4	0.16
(1,1443)	1:B:119:HIS:HB3	1:B:119:HIS:HA	1	0.16
(1,1442)	1:B:119:HIS:HB3	1:B:119:HIS:HA	1	0.16
(1,1418)	1:B:118:PHE:HD1	1:B:103:LYS:HA	4	0.16
(1,1418)	1:B:118:PHE:HD2	1:B:103:LYS:HA	4	0.16
(1,1338)	1:B:111:HIS:H	1:B:112:GLY:H	9	0.16
(1,1335)	1:B:111:HIS:H	1:B:112:GLY:H	9	0.16
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	7	0.16
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD1	7	0.16
(1,1304)	1:B:107:ARG:HB2	1:B:113:PHE:HD2	7	0.16
(1,130)	1:A:78:ASN:HB2	1:A:79:LEU:H	9	0.16
(1,1284)	1:B:105:GLU:HG2	1:B:106:GLU:H	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1284)	1:B:105:GLU:HG3	1:B:106:GLU:H	2	0.16
(1,1225)	1:B:100:VAL:HG11	1:B:92:LYS:H	3	0.16
(1,1225)	1:B:100:VAL:HG12	1:B:92:LYS:H	3	0.16
(1,1225)	1:B:100:VAL:HG13	1:B:92:LYS:H	3	0.16
(1,1225)	1:B:100:VAL:HG11	1:B:92:LYS:H	4	0.16
(1,1225)	1:B:100:VAL:HG12	1:B:92:LYS:H	4	0.16
(1,1225)	1:B:100:VAL:HG13	1:B:92:LYS:H	4	0.16
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	6	0.16
(1,1202)	1:B:98:ILE:H	1:B:97:VAL:H	2	0.16
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG11	5	0.16
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG12	5	0.16
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG13	5	0.16
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG21	5	0.16
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG22	5	0.16
(1,1194)	1:B:97:VAL:HA	1:B:97:VAL:HG23	5	0.16
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	3	0.16
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	3	0.16
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	3	0.16
(1,115)	1:A:77:VAL:HG11	1:A:145:VAL:H	4	0.16
(1,115)	1:A:77:VAL:HG12	1:A:145:VAL:H	4	0.16
(1,115)	1:A:77:VAL:HG13	1:A:145:VAL:H	4	0.16
(1,1149)	1:B:93:VAL:H	1:B:92:LYS:HG2	1	0.16
(1,1149)	1:B:93:VAL:H	1:B:92:LYS:HG3	1	0.16
(1,1127)	1:B:89:LEU:HD21	1:B:103:LYS:H	6	0.16
(1,1127)	1:B:89:LEU:HD22	1:B:103:LYS:H	6	0.16
(1,1127)	1:B:89:LEU:HD23	1:B:103:LYS:H	6	0.16
(1,1127)	1:B:89:LEU:HD21	1:B:103:LYS:H	8	0.16
(1,1127)	1:B:89:LEU:HD22	1:B:103:LYS:H	8	0.16
(1,1127)	1:B:89:LEU:HD23	1:B:103:LYS:H	8	0.16
(1,1117)	1:B:89:LEU:HD21	1:B:89:LEU:H	8	0.16
(1,1117)	1:B:89:LEU:HD22	1:B:89:LEU:H	8	0.16
(1,1117)	1:B:89:LEU:HD23	1:B:89:LEU:H	8	0.16
(1,1083)	1:B:85:SER:HB2	1:B:89:LEU:H	5	0.16
(1,1082)	1:B:85:SER:HB3	1:B:89:LEU:H	9	0.16
(1,1070)	1:B:84:PHE:HE1	1:B:116:ARG:H	8	0.16
(1,1070)	1:B:84:PHE:HE2	1:B:116:ARG:H	8	0.16
(1,1062)	1:B:84:PHE:HD1	1:B:84:PHE:H	4	0.16
(1,1062)	1:B:84:PHE:HD2	1:B:84:PHE:H	4	0.16
(1,1060)	1:B:84:PHE:HD1	1:B:83:HIS:HA	4	0.16
(1,1060)	1:B:84:PHE:HD2	1:B:83:HIS:HA	4	0.16
(1,1034)	1:B:81:VAL:H	1:B:141:GLY:HA2	7	0.16
(1,103)	1:A:77:VAL:H	1:A:78:ASN:H	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	9	0.16
(1,1026)	1:B:81:VAL:H	1:B:82:LYS:H	9	0.16
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	2	0.16
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	4	0.16
(1,1015)	1:B:80:ASP:H	1:B:80:ASP:HB3	8	0.16
(1,997)	1:B:78:ASN:HB2	1:B:79:LEU:H	9	0.15
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE1	8	0.15
(1,978)	1:B:77:VAL:HG11	1:B:122:TYR:HE2	8	0.15
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE1	8	0.15
(1,978)	1:B:77:VAL:HG12	1:B:122:TYR:HE2	8	0.15
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE1	8	0.15
(1,978)	1:B:77:VAL:HG13	1:B:122:TYR:HE2	8	0.15
(1,970)	1:B:77:VAL:H	1:B:78:ASN:H	1	0.15
(1,970)	1:B:77:VAL:H	1:B:78:ASN:H	3	0.15
(1,969)	1:B:77:VAL:HG11	1:B:78:ASN:H	3	0.15
(1,969)	1:B:77:VAL:HG12	1:B:78:ASN:H	3	0.15
(1,969)	1:B:77:VAL:HG13	1:B:78:ASN:H	3	0.15
(1,942)	1:B:76:SER:HB3	1:B:146:ASP:HB3	6	0.15
(1,939)	1:B:76:SER:HB3	1:B:146:ASP:HB2	5	0.15
(1,938)	1:B:76:SER:HB3	1:B:146:ASP:HB2	5	0.15
(1,926)	1:B:76:SER:HB2	1:B:75:PHE:HD1	5	0.15
(1,926)	1:B:76:SER:HB2	1:B:75:PHE:HD2	5	0.15
(1,914)	1:B:75:PHE:HA	1:B:75:PHE:HD1	7	0.15
(1,914)	1:B:75:PHE:HA	1:B:75:PHE:HD2	7	0.15
(1,896)	1:B:72:LYS:HB2	1:B:72:LYS:H	7	0.15
(1,896)	1:B:72:LYS:HB3	1:B:72:LYS:H	7	0.15
(1,895)	1:B:72:LYS:H	1:B:72:LYS:HA	1	0.15
(1,894)	1:B:72:LYS:H	1:B:71:GLU:HA	7	0.15
(1,893)	1:B:71:GLU:H	1:B:76:SER:H	5	0.15
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG2	4	0.15
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG3	4	0.15
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG2	6	0.15
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG3	6	0.15
(1,866)	1:A:152:VAL:H	1:A:151:GLN:H	9	0.15
(1,842)	1:A:147:GLY:HA3	1:A:133:ILE:HB	8	0.15
(1,809)	1:A:144:THR:HG21	1:A:146:ASP:HB3	4	0.15
(1,809)	1:A:144:THR:HG22	1:A:146:ASP:HB3	4	0.15
(1,809)	1:A:144:THR:HG23	1:A:146:ASP:HB3	4	0.15
(1,778)	1:A:142:VAL:H	1:A:141:GLY:H	5	0.15
(1,777)	1:A:142:VAL:H	1:A:141:GLY:H	5	0.15
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD11	5	0.15
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD12	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD13	5	0.15
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD21	5	0.15
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD22	5	0.15
(1,750)	1:A:136:SER:H	1:A:143:LEU:HD23	5	0.15
(1,75)	1:A:76:SER:HB3	1:A:146:ASP:HB3	6	0.15
(1,749)	1:A:136:SER:HA	1:A:137:LEU:H	2	0.15
(1,749)	1:A:136:SER:HA	1:A:137:LEU:H	7	0.15
(1,746)	1:A:136:SER:H	1:A:135:SER:H	4	0.15
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG21	3	0.15
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG22	3	0.15
(1,738)	1:A:135:SER:HA	1:A:145:VAL:HG23	3	0.15
(1,737)	1:A:135:SER:HA	1:A:136:SER:H	8	0.15
(1,72)	1:A:76:SER:HB3	1:A:146:ASP:HB2	5	0.15
(1,71)	1:A:76:SER:HB3	1:A:146:ASP:HB2	5	0.15
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG2	4	0.15
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG3	4	0.15
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG2	6	0.15
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG3	6	0.15
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	9	0.15
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	9	0.15
(1,615)	1:A:124:ILE:HB	1:A:97:VAL:HA	5	0.15
(1,614)	1:A:124:ILE:HD11	1:A:96:ASP:H	9	0.15
(1,614)	1:A:124:ILE:HD12	1:A:96:ASP:H	9	0.15
(1,614)	1:A:124:ILE:HD13	1:A:96:ASP:H	9	0.15
(1,596)	1:A:122:TYR:HA	1:A:122:TYR:H	9	0.15
(1,593)	1:A:122:TYR:HB2	1:A:122:TYR:HA	7	0.15
(1,593)	1:A:122:TYR:HB3	1:A:122:TYR:HA	7	0.15
(1,591)	1:A:122:TYR:HB2	1:A:122:TYR:HA	7	0.15
(1,591)	1:A:122:TYR:HB3	1:A:122:TYR:HA	7	0.15
(1,59)	1:A:76:SER:HB2	1:A:75:PHE:HD1	5	0.15
(1,59)	1:A:76:SER:HB2	1:A:75:PHE:HD2	5	0.15
(1,576)	1:A:119:HIS:HB3	1:A:119:HIS:HA	1	0.15
(1,575)	1:A:119:HIS:HB3	1:A:119:HIS:HA	1	0.15
(1,542)	1:A:117:GLU:HA	1:A:103:LYS:HD2	9	0.15
(1,542)	1:A:117:GLU:HA	1:A:103:LYS:HD3	9	0.15
(1,533)	1:A:115:SER:HB2	1:A:116:ARG:H	3	0.15
(1,521)	1:A:115:SER:HB2	1:A:105:GLU:HB2	1	0.15
(1,521)	1:A:115:SER:HB2	1:A:105:GLU:HB3	1	0.15
(1,485)	1:A:113:PHE:HA	1:A:108:GLN:HA	1	0.15
(1,478)	1:A:112:GLY:HA2	1:A:112:GLY:H	7	0.15
(1,47)	1:A:75:PHE:HA	1:A:75:PHE:HD1	7	0.15
(1,47)	1:A:75:PHE:HA	1:A:75:PHE:HD2	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB2	2	0.15
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB3	2	0.15
(1,438)	1:A:107:ARG:HB3	1:A:113:PHE:HD1	3	0.15
(1,438)	1:A:107:ARG:HB3	1:A:113:PHE:HD2	3	0.15
(1,415)	1:A:105:GLU:HA	1:A:106:GLU:H	9	0.15
(1,395)	1:A:103:LYS:HG2	1:A:103:LYS:H	8	0.15
(1,395)	1:A:103:LYS:HG3	1:A:103:LYS:H	8	0.15
(1,379)	1:A:101:HIS:HB2	1:A:101:HIS:H	6	0.15
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB2	3	0.15
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB3	3	0.15
(1,362)	1:A:100:VAL:H	1:A:100:VAL:HB	5	0.15
(1,360)	1:A:100:VAL:HA	1:A:100:VAL:H	8	0.15
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	2	0.15
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	7	0.15
(1,339)	1:A:98:ILE:HB	1:A:98:ILE:H	9	0.15
(1,335)	1:A:98:ILE:H	1:A:97:VAL:H	9	0.15
(1,326)	1:A:97:VAL:HB	1:A:97:VAL:HA	3	0.15
(1,326)	1:A:97:VAL:HB	1:A:97:VAL:HA	5	0.15
(1,325)	1:A:97:VAL:HB	1:A:97:VAL:HA	3	0.15
(1,325)	1:A:97:VAL:HB	1:A:97:VAL:HA	5	0.15
(1,293)	1:A:94:LEU:H	1:A:95:GLY:H	5	0.15
(1,29)	1:A:72:LYS:HB2	1:A:72:LYS:H	7	0.15
(1,29)	1:A:72:LYS:HB3	1:A:72:LYS:H	7	0.15
(1,29)	1:A:72:LYS:HB2	1:A:72:LYS:H	9	0.15
(1,29)	1:A:72:LYS:HB3	1:A:72:LYS:H	9	0.15
(1,28)	1:A:72:LYS:H	1:A:72:LYS:HA	1	0.15
(1,275)	1:A:92:LYS:H	1:A:92:LYS:HG2	2	0.15
(1,275)	1:A:92:LYS:H	1:A:92:LYS:HG3	2	0.15
(1,27)	1:A:72:LYS:H	1:A:71:GLU:HA	7	0.15
(1,26)	1:A:71:GLU:H	1:A:76:SER:H	5	0.15
(1,242)	1:A:89:LEU:H	1:A:88:GLU:H	8	0.15
(1,241)	1:A:89:LEU:H	1:A:88:GLU:H	8	0.15
(1,239)	1:A:89:LEU:H	1:A:87:GLU:HA	3	0.15
(1,235)	1:A:88:GLU:H	1:A:89:LEU:HB2	5	0.15
(1,235)	1:A:88:GLU:H	1:A:89:LEU:HB3	5	0.15
(1,231)	1:A:87:GLU:HB2	1:A:89:LEU:H	1	0.15
(1,231)	1:A:87:GLU:HB3	1:A:89:LEU:H	1	0.15
(1,186)	1:A:83:HIS:HB2	1:A:104:HIS:HB2	4	0.15
(1,178)	1:A:83:HIS:HB3	1:A:83:HIS:H	8	0.15
(1,1755)	1:A:118:PHE:HD1	1:B:116:ARG:HA	4	0.15
(1,1755)	1:A:118:PHE:HD2	1:B:116:ARG:HA	4	0.15
(1,1733)	1:B:152:VAL:H	1:B:151:GLN:H	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1709)	1:B:147:GLY:HA3	1:B:133:ILE:HB	8	0.15
(1,1652)	1:B:142:VAL:HG11	1:B:143:LEU:H	2	0.15
(1,1652)	1:B:142:VAL:HG12	1:B:143:LEU:H	2	0.15
(1,1652)	1:B:142:VAL:HG13	1:B:143:LEU:H	2	0.15
(1,1652)	1:B:142:VAL:HG21	1:B:143:LEU:H	2	0.15
(1,1652)	1:B:142:VAL:HG22	1:B:143:LEU:H	2	0.15
(1,1652)	1:B:142:VAL:HG23	1:B:143:LEU:H	2	0.15
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD11	5	0.15
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD12	5	0.15
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD13	5	0.15
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD21	5	0.15
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD22	5	0.15
(1,1617)	1:B:136:SER:H	1:B:143:LEU:HD23	5	0.15
(1,1616)	1:B:136:SER:HA	1:B:137:LEU:H	2	0.15
(1,1616)	1:B:136:SER:HA	1:B:137:LEU:H	7	0.15
(1,1613)	1:B:136:SER:H	1:B:135:SER:H	4	0.15
(1,1604)	1:B:135:SER:HA	1:B:136:SER:H	8	0.15
(1,1567)	1:B:132:THR:HG21	1:B:132:THR:H	4	0.15
(1,1567)	1:B:132:THR:HG22	1:B:132:THR:H	4	0.15
(1,1567)	1:B:132:THR:HG23	1:B:132:THR:H	4	0.15
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	9	0.15
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	9	0.15
(1,1482)	1:B:124:ILE:HB	1:B:97:VAL:HA	5	0.15
(1,1481)	1:B:124:ILE:HD11	1:B:96:ASP:H	9	0.15
(1,1481)	1:B:124:ILE:HD12	1:B:96:ASP:H	9	0.15
(1,1481)	1:B:124:ILE:HD13	1:B:96:ASP:H	9	0.15
(1,1463)	1:B:122:TYR:HA	1:B:122:TYR:H	9	0.15
(1,1460)	1:B:122:TYR:HB2	1:B:122:TYR:HA	7	0.15
(1,1460)	1:B:122:TYR:HB3	1:B:122:TYR:HA	7	0.15
(1,1458)	1:B:122:TYR:HB2	1:B:122:TYR:HA	7	0.15
(1,1458)	1:B:122:TYR:HB3	1:B:122:TYR:HA	7	0.15
(1,1409)	1:B:117:GLU:HA	1:B:103:LYS:HD2	9	0.15
(1,1409)	1:B:117:GLU:HA	1:B:103:LYS:HD3	9	0.15
(1,1400)	1:B:115:SER:HB2	1:B:116:ARG:H	3	0.15
(1,1388)	1:B:115:SER:HB2	1:B:105:GLU:HB2	1	0.15
(1,1388)	1:B:115:SER:HB2	1:B:105:GLU:HB3	1	0.15
(1,1352)	1:B:113:PHE:HA	1:B:108:GLN:HA	1	0.15
(1,1345)	1:B:112:GLY:HA2	1:B:112:GLY:H	7	0.15
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB2	2	0.15
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB3	2	0.15
(1,1305)	1:B:107:ARG:HB3	1:B:113:PHE:HD1	3	0.15
(1,1305)	1:B:107:ARG:HB3	1:B:113:PHE:HD2	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1291)	1:B:107:ARG:HG2	1:B:107:ARG:HA	5	0.15
(1,1291)	1:B:107:ARG:HG3	1:B:107:ARG:HA	5	0.15
(1,1282)	1:B:105:GLU:HA	1:B:106:GLU:H	9	0.15
(1,1246)	1:B:101:HIS:HB2	1:B:101:HIS:H	6	0.15
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB2	3	0.15
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB3	3	0.15
(1,1229)	1:B:100:VAL:H	1:B:100:VAL:HB	5	0.15
(1,1227)	1:B:100:VAL:HA	1:B:100:VAL:H	8	0.15
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	2	0.15
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	3	0.15
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	4	0.15
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	7	0.15
(1,1206)	1:B:98:ILE:HB	1:B:98:ILE:H	9	0.15
(1,1202)	1:B:98:ILE:H	1:B:97:VAL:H	9	0.15
(1,1193)	1:B:97:VAL:HB	1:B:97:VAL:HA	3	0.15
(1,1192)	1:B:97:VAL:HB	1:B:97:VAL:HA	3	0.15
(1,1160)	1:B:94:LEU:H	1:B:95:GLY:H	5	0.15
(1,1142)	1:B:92:LYS:H	1:B:92:LYS:HG2	2	0.15
(1,1142)	1:B:92:LYS:H	1:B:92:LYS:HG3	2	0.15
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE1	8	0.15
(1,111)	1:A:77:VAL:HG11	1:A:122:TYR:HE2	8	0.15
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE1	8	0.15
(1,111)	1:A:77:VAL:HG12	1:A:122:TYR:HE2	8	0.15
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE1	8	0.15
(1,111)	1:A:77:VAL:HG13	1:A:122:TYR:HE2	8	0.15
(1,1109)	1:B:89:LEU:H	1:B:88:GLU:H	8	0.15
(1,1108)	1:B:89:LEU:H	1:B:88:GLU:H	8	0.15
(1,1106)	1:B:89:LEU:H	1:B:87:GLU:HA	3	0.15
(1,1103)	1:B:89:LEU:HD21	1:B:85:SER:HB3	5	0.15
(1,1103)	1:B:89:LEU:HD22	1:B:85:SER:HB3	5	0.15
(1,1103)	1:B:89:LEU:HD23	1:B:85:SER:HB3	5	0.15
(1,1102)	1:B:88:GLU:H	1:B:89:LEU:HB2	5	0.15
(1,1102)	1:B:88:GLU:H	1:B:89:LEU:HB3	5	0.15
(1,1098)	1:B:87:GLU:HB2	1:B:89:LEU:H	1	0.15
(1,1098)	1:B:87:GLU:HB3	1:B:89:LEU:H	1	0.15
(1,1045)	1:B:83:HIS:HB3	1:B:83:HIS:H	8	0.15
(1,103)	1:A:77:VAL:H	1:A:78:ASN:H	1	0.15
(1,103)	1:A:77:VAL:H	1:A:78:ASN:H	3	0.15
(1,990)	1:B:78:ASN:HB3	1:B:78:ASN:H	3	0.14
(1,924)	1:B:75:PHE:H	1:B:149:ARG:H	9	0.14
(1,896)	1:B:72:LYS:HB2	1:B:72:LYS:H	4	0.14
(1,896)	1:B:72:LYS:HB3	1:B:72:LYS:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,895)	1:B:72:LYS:H	1:B:72:LYS:HA	5	0.14
(1,860)	1:A:150:LYS:H	1:A:151:GLN:H	7	0.14
(1,854)	1:A:148:PRO:HB2	1:A:149:ARG:H	9	0.14
(1,854)	1:A:148:PRO:HB3	1:A:149:ARG:H	9	0.14
(1,853)	1:A:148:PRO:HA	1:A:148:PRO:HG2	6	0.14
(1,853)	1:A:148:PRO:HA	1:A:148:PRO:HG3	6	0.14
(1,853)	1:A:148:PRO:HA	1:A:148:PRO:HG2	8	0.14
(1,853)	1:A:148:PRO:HA	1:A:148:PRO:HG3	8	0.14
(1,838)	1:A:146:ASP:HB3	1:A:146:ASP:H	1	0.14
(1,835)	1:A:146:ASP:HB2	1:A:146:ASP:HA	9	0.14
(1,834)	1:A:146:ASP:HB3	1:A:146:ASP:HA	3	0.14
(1,833)	1:A:146:ASP:HB3	1:A:146:ASP:HA	3	0.14
(1,832)	1:A:146:ASP:HB2	1:A:146:ASP:HA	9	0.14
(1,763)	1:A:138:SER:H	1:A:142:VAL:H	3	0.14
(1,760)	1:A:138:SER:H	1:A:142:VAL:H	3	0.14
(1,742)	1:A:135:SER:HA	1:A:145:VAL:HA	1	0.14
(1,740)	1:A:135:SER:HA	1:A:145:VAL:HA	1	0.14
(1,700)	1:A:132:THR:HG21	1:A:132:THR:H	4	0.14
(1,700)	1:A:132:THR:HG22	1:A:132:THR:H	4	0.14
(1,700)	1:A:132:THR:HG23	1:A:132:THR:H	4	0.14
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	5	0.14
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	5	0.14
(1,660)	1:A:126:ALA:HA	1:A:128:VAL:H	6	0.14
(1,614)	1:A:124:ILE:HD11	1:A:96:ASP:H	5	0.14
(1,614)	1:A:124:ILE:HD12	1:A:96:ASP:H	5	0.14
(1,614)	1:A:124:ILE:HD13	1:A:96:ASP:H	5	0.14
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD2	6	0.14
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD3	6	0.14
(1,596)	1:A:122:TYR:HA	1:A:122:TYR:H	5	0.14
(1,57)	1:A:75:PHE:H	1:A:149:ARG:H	9	0.14
(1,553)	1:A:118:PHE:HD1	1:A:103:LYS:H	1	0.14
(1,553)	1:A:118:PHE:HD2	1:A:103:LYS:H	1	0.14
(1,535)	1:A:116:ARG:H	1:A:104:HIS:H	8	0.14
(1,534)	1:A:116:ARG:H	1:A:104:HIS:H	8	0.14
(1,521)	1:A:115:SER:HB2	1:A:105:GLU:HB2	5	0.14
(1,521)	1:A:115:SER:HB2	1:A:105:GLU:HB3	5	0.14
(1,459)	1:A:111:HIS:H	1:A:110:GLU:H	8	0.14
(1,458)	1:A:111:HIS:H	1:A:110:GLU:H	8	0.14
(1,454)	1:A:110:GLU:H	1:A:110:GLU:HA	2	0.14
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB2	3	0.14
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB3	3	0.14
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB2	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB3	7	0.14
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB2	9	0.14
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB3	9	0.14
(1,427)	1:A:107:ARG:HB3	1:A:107:ARG:H	8	0.14
(1,424)	1:A:107:ARG:HG2	1:A:107:ARG:HA	2	0.14
(1,424)	1:A:107:ARG:HG3	1:A:107:ARG:HA	2	0.14
(1,411)	1:A:105:GLU:HB2	1:A:105:GLU:H	6	0.14
(1,411)	1:A:105:GLU:HB3	1:A:105:GLU:H	6	0.14
(1,411)	1:A:105:GLU:HB2	1:A:105:GLU:H	9	0.14
(1,411)	1:A:105:GLU:HB3	1:A:105:GLU:H	9	0.14
(1,400)	1:A:104:HIS:HA	1:A:84:PHE:HE1	1	0.14
(1,400)	1:A:104:HIS:HA	1:A:84:PHE:HE2	1	0.14
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB2	5	0.14
(1,367)	1:A:101:HIS:HB3	1:A:92:LYS:HB3	5	0.14
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	1	0.14
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	3	0.14
(1,335)	1:A:98:ILE:H	1:A:97:VAL:H	5	0.14
(1,326)	1:A:97:VAL:HB	1:A:97:VAL:HA	4	0.14
(1,325)	1:A:97:VAL:HB	1:A:97:VAL:HA	4	0.14
(1,29)	1:A:72:LYS:HB2	1:A:72:LYS:H	4	0.14
(1,29)	1:A:72:LYS:HB3	1:A:72:LYS:H	4	0.14
(1,28)	1:A:72:LYS:H	1:A:72:LYS:HA	5	0.14
(1,257)	1:A:89:LEU:HD11	1:A:102:GLY:HA2	4	0.14
(1,257)	1:A:89:LEU:HD12	1:A:102:GLY:HA2	4	0.14
(1,257)	1:A:89:LEU:HD13	1:A:102:GLY:HA2	4	0.14
(1,250)	1:A:89:LEU:HD21	1:A:89:LEU:H	1	0.14
(1,250)	1:A:89:LEU:HD22	1:A:89:LEU:H	1	0.14
(1,250)	1:A:89:LEU:HD23	1:A:89:LEU:H	1	0.14
(1,1721)	1:B:148:PRO:HB2	1:B:149:ARG:H	9	0.14
(1,1721)	1:B:148:PRO:HB3	1:B:149:ARG:H	9	0.14
(1,1720)	1:B:148:PRO:HA	1:B:148:PRO:HG2	8	0.14
(1,1720)	1:B:148:PRO:HA	1:B:148:PRO:HG3	8	0.14
(1,1705)	1:B:146:ASP:HB3	1:B:146:ASP:H	1	0.14
(1,1702)	1:B:146:ASP:HB2	1:B:146:ASP:HA	9	0.14
(1,1701)	1:B:146:ASP:HB3	1:B:146:ASP:HA	3	0.14
(1,1700)	1:B:146:ASP:HB3	1:B:146:ASP:HA	3	0.14
(1,1699)	1:B:146:ASP:HB2	1:B:146:ASP:HA	9	0.14
(1,1676)	1:B:144:THR:HG21	1:B:146:ASP:HB3	4	0.14
(1,1676)	1:B:144:THR:HG22	1:B:146:ASP:HB3	4	0.14
(1,1676)	1:B:144:THR:HG23	1:B:146:ASP:HB3	4	0.14
(1,1645)	1:B:142:VAL:H	1:B:141:GLY:H	5	0.14
(1,1644)	1:B:142:VAL:H	1:B:141:GLY:H	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1630)	1:B:138:SER:H	1:B:142:VAL:H	3	0.14
(1,1627)	1:B:138:SER:H	1:B:142:VAL:H	3	0.14
(1,1609)	1:B:135:SER:HA	1:B:145:VAL:HA	1	0.14
(1,1607)	1:B:135:SER:HA	1:B:145:VAL:HA	1	0.14
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	5	0.14
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	5	0.14
(1,1527)	1:B:126:ALA:HA	1:B:128:VAL:H	6	0.14
(1,1481)	1:B:124:ILE:HD11	1:B:96:ASP:H	5	0.14
(1,1481)	1:B:124:ILE:HD12	1:B:96:ASP:H	5	0.14
(1,1481)	1:B:124:ILE:HD13	1:B:96:ASP:H	5	0.14
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD2	6	0.14
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD3	6	0.14
(1,1463)	1:B:122:TYR:HA	1:B:122:TYR:H	5	0.14
(1,1402)	1:B:116:ARG:H	1:B:104:HIS:H	8	0.14
(1,1401)	1:B:116:ARG:H	1:B:104:HIS:H	8	0.14
(1,1388)	1:B:115:SER:HB2	1:B:105:GLU:HB2	5	0.14
(1,1388)	1:B:115:SER:HB2	1:B:105:GLU:HB3	5	0.14
(1,1326)	1:B:111:HIS:H	1:B:110:GLU:H	8	0.14
(1,1325)	1:B:111:HIS:H	1:B:110:GLU:H	8	0.14
(1,1321)	1:B:110:GLU:H	1:B:110:GLU:HA	2	0.14
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB2	3	0.14
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB3	3	0.14
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB2	7	0.14
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB3	7	0.14
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB2	9	0.14
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB3	9	0.14
(1,1294)	1:B:107:ARG:HB3	1:B:107:ARG:H	8	0.14
(1,1291)	1:B:107:ARG:HG2	1:B:107:ARG:HA	2	0.14
(1,1291)	1:B:107:ARG:HG3	1:B:107:ARG:HA	2	0.14
(1,1278)	1:B:105:GLU:HB2	1:B:105:GLU:H	6	0.14
(1,1278)	1:B:105:GLU:HB3	1:B:105:GLU:H	6	0.14
(1,1278)	1:B:105:GLU:HB2	1:B:105:GLU:H	9	0.14
(1,1278)	1:B:105:GLU:HB3	1:B:105:GLU:H	9	0.14
(1,1267)	1:B:104:HIS:HA	1:B:84:PHE:HE1	1	0.14
(1,1267)	1:B:104:HIS:HA	1:B:84:PHE:HE2	1	0.14
(1,1262)	1:B:103:LYS:HG2	1:B:103:LYS:H	8	0.14
(1,1262)	1:B:103:LYS:HG3	1:B:103:LYS:H	8	0.14
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB2	5	0.14
(1,1234)	1:B:101:HIS:HB3	1:B:92:LYS:HB3	5	0.14
(1,123)	1:A:78:ASN:HB3	1:A:78:ASN:H	3	0.14
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	1	0.14
(1,1202)	1:B:98:ILE:H	1:B:97:VAL:H	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1193)	1:B:97:VAL:HB	1:B:97:VAL:HA	4	0.14
(1,1193)	1:B:97:VAL:HB	1:B:97:VAL:HA	5	0.14
(1,1192)	1:B:97:VAL:HB	1:B:97:VAL:HA	4	0.14
(1,1192)	1:B:97:VAL:HB	1:B:97:VAL:HA	5	0.14
(1,1124)	1:B:89:LEU:HD11	1:B:102:GLY:HA2	4	0.14
(1,1124)	1:B:89:LEU:HD12	1:B:102:GLY:HA2	4	0.14
(1,1124)	1:B:89:LEU:HD13	1:B:102:GLY:HA2	4	0.14
(1,1117)	1:B:89:LEU:HD21	1:B:89:LEU:H	1	0.14
(1,1117)	1:B:89:LEU:HD22	1:B:89:LEU:H	1	0.14
(1,1117)	1:B:89:LEU:HD23	1:B:89:LEU:H	1	0.14
(1,1053)	1:B:83:HIS:HB2	1:B:104:HIS:HB2	4	0.14
(1,102)	1:A:77:VAL:HG11	1:A:78:ASN:H	3	0.14
(1,102)	1:A:77:VAL:HG12	1:A:78:ASN:H	3	0.14
(1,102)	1:A:77:VAL:HG13	1:A:78:ASN:H	3	0.14
(1,983)	1:B:77:VAL:H	1:B:145:VAL:H	9	0.13
(1,944)	1:B:76:SER:HB2	1:B:146:ASP:HB3	1	0.13
(1,940)	1:B:76:SER:HB2	1:B:146:ASP:HB2	1	0.13
(1,937)	1:B:76:SER:HB2	1:B:146:ASP:HB2	1	0.13
(1,934)	1:B:76:SER:HB2	1:B:146:ASP:HB2	1	0.13
(1,923)	1:B:75:PHE:HD1	1:B:148:PRO:HA	3	0.13
(1,923)	1:B:75:PHE:HD2	1:B:148:PRO:HA	3	0.13
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	4	0.13
(1,918)	1:B:75:PHE:HA	1:B:76:SER:H	9	0.13
(1,915)	1:B:75:PHE:HA	1:B:75:PHE:HB3	8	0.13
(1,888)	1:B:70:LEU:HD11	1:B:71:GLU:H	2	0.13
(1,888)	1:B:70:LEU:HD12	1:B:71:GLU:H	2	0.13
(1,888)	1:B:70:LEU:HD13	1:B:71:GLU:H	2	0.13
(1,888)	1:B:70:LEU:HD21	1:B:71:GLU:H	2	0.13
(1,888)	1:B:70:LEU:HD22	1:B:71:GLU:H	2	0.13
(1,888)	1:B:70:LEU:HD23	1:B:71:GLU:H	2	0.13
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG2	2	0.13
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG3	2	0.13
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG2	7	0.13
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG3	7	0.13
(1,867)	1:A:152:VAL:H	1:A:152:VAL:HG11	8	0.13
(1,867)	1:A:152:VAL:H	1:A:152:VAL:HG12	8	0.13
(1,867)	1:A:152:VAL:H	1:A:152:VAL:HG13	8	0.13
(1,867)	1:A:152:VAL:H	1:A:152:VAL:HG21	8	0.13
(1,867)	1:A:152:VAL:H	1:A:152:VAL:HG22	8	0.13
(1,867)	1:A:152:VAL:H	1:A:152:VAL:HG23	8	0.13
(1,856)	1:A:150:LYS:H	1:A:149:ARG:H	1	0.13
(1,847)	1:A:147:GLY:HA2	1:A:147:GLY:H	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,834)	1:A:146:ASP:HB3	1:A:146:ASP:HA	5	0.13
(1,834)	1:A:146:ASP:HB3	1:A:146:ASP:HA	8	0.13
(1,833)	1:A:146:ASP:HB3	1:A:146:ASP:HA	5	0.13
(1,833)	1:A:146:ASP:HB3	1:A:146:ASP:HA	8	0.13
(1,812)	1:A:145:VAL:HB	1:A:135:SER:HA	8	0.13
(1,802)	1:A:144:THR:HB	1:A:144:THR:H	1	0.13
(1,731)	1:A:134:THR:HG21	1:A:135:SER:H	8	0.13
(1,731)	1:A:134:THR:HG22	1:A:135:SER:H	8	0.13
(1,731)	1:A:134:THR:HG23	1:A:135:SER:H	8	0.13
(1,73)	1:A:76:SER:HB2	1:A:146:ASP:HB2	1	0.13
(1,70)	1:A:76:SER:HB2	1:A:146:ASP:HB2	1	0.13
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG2	2	0.13
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG3	2	0.13
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG2	7	0.13
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG3	7	0.13
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	1	0.13
(1,673)	1:A:127:ASP:HB3	1:A:128:VAL:H	4	0.13
(1,670)	1:A:127:ASP:HB3	1:A:127:ASP:H	4	0.13
(1,67)	1:A:76:SER:HB2	1:A:146:ASP:HB2	1	0.13
(1,644)	1:A:125:PRO:HD2	1:A:124:ILE:HB	2	0.13
(1,615)	1:A:124:ILE:HB	1:A:97:VAL:HA	4	0.13
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD2	1	0.13
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD3	1	0.13
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD2	7	0.13
(1,606)	1:A:123:ARG:HB2	1:A:123:ARG:HD3	7	0.13
(1,56)	1:A:75:PHE:HD1	1:A:148:PRO:HA	3	0.13
(1,56)	1:A:75:PHE:HD2	1:A:148:PRO:HA	3	0.13
(1,541)	1:A:117:GLU:HA	1:A:103:LYS:HG2	1	0.13
(1,541)	1:A:117:GLU:HA	1:A:103:LYS:HG3	1	0.13
(1,541)	1:A:117:GLU:HA	1:A:103:LYS:HG2	2	0.13
(1,541)	1:A:117:GLU:HA	1:A:103:LYS:HG3	2	0.13
(1,535)	1:A:116:ARG:H	1:A:104:HIS:H	7	0.13
(1,534)	1:A:116:ARG:H	1:A:104:HIS:H	7	0.13
(1,532)	1:A:115:SER:HB3	1:A:116:ARG:H	9	0.13
(1,510)	1:A:114:ILE:HG21	1:A:111:HIS:H	3	0.13
(1,510)	1:A:114:ILE:HG22	1:A:111:HIS:H	3	0.13
(1,510)	1:A:114:ILE:HG23	1:A:111:HIS:H	3	0.13
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	4	0.13
(1,51)	1:A:75:PHE:HA	1:A:76:SER:H	9	0.13
(1,505)	1:A:114:ILE:HD11	1:A:107:ARG:HG2	7	0.13
(1,505)	1:A:114:ILE:HD11	1:A:107:ARG:HG3	7	0.13
(1,505)	1:A:114:ILE:HD12	1:A:107:ARG:HG2	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:A:114:ILE:HD12	1:A:107:ARG:HG3	7	0.13
(1,505)	1:A:114:ILE:HD13	1:A:107:ARG:HG2	7	0.13
(1,505)	1:A:114:ILE:HD13	1:A:107:ARG:HG3	7	0.13
(1,502)	1:A:114:ILE:HD11	1:A:104:HIS:HB2	3	0.13
(1,502)	1:A:114:ILE:HD12	1:A:104:HIS:HB2	3	0.13
(1,502)	1:A:114:ILE:HD13	1:A:104:HIS:HB2	3	0.13
(1,482)	1:A:113:PHE:HD1	1:A:107:ARG:HA	6	0.13
(1,482)	1:A:113:PHE:HD2	1:A:107:ARG:HA	6	0.13
(1,48)	1:A:75:PHE:HA	1:A:75:PHE:HB3	8	0.13
(1,451)	1:A:109:ASP:H	1:A:112:GLY:H	4	0.13
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB2	6	0.13
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB3	6	0.13
(1,427)	1:A:107:ARG:HB3	1:A:107:ARG:H	3	0.13
(1,425)	1:A:107:ARG:HA	1:A:107:ARG:H	6	0.13
(1,424)	1:A:107:ARG:HG2	1:A:107:ARG:HA	4	0.13
(1,424)	1:A:107:ARG:HG3	1:A:107:ARG:HA	4	0.13
(1,417)	1:A:105:GLU:HG2	1:A:106:GLU:H	9	0.13
(1,417)	1:A:105:GLU:HG3	1:A:106:GLU:H	9	0.13
(1,415)	1:A:105:GLU:HA	1:A:106:GLU:H	5	0.13
(1,375)	1:A:101:HIS:HB2	1:A:101:HIS:HA	1	0.13
(1,375)	1:A:101:HIS:HB2	1:A:101:HIS:HA	3	0.13
(1,375)	1:A:101:HIS:HB2	1:A:101:HIS:HA	6	0.13
(1,374)	1:A:101:HIS:HB2	1:A:101:HIS:HA	1	0.13
(1,374)	1:A:101:HIS:HB2	1:A:101:HIS:HA	3	0.13
(1,374)	1:A:101:HIS:HB2	1:A:101:HIS:HA	6	0.13
(1,369)	1:A:101:HIS:H	1:A:100:VAL:HA	7	0.13
(1,346)	1:A:98:ILE:H	1:A:122:TYR:H	1	0.13
(1,345)	1:A:98:ILE:H	1:A:122:TYR:H	1	0.13
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	5	0.13
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	8	0.13
(1,326)	1:A:97:VAL:HB	1:A:97:VAL:HA	2	0.13
(1,326)	1:A:97:VAL:HB	1:A:97:VAL:HA	9	0.13
(1,325)	1:A:97:VAL:HB	1:A:97:VAL:HA	2	0.13
(1,325)	1:A:97:VAL:HB	1:A:97:VAL:HA	9	0.13
(1,259)	1:A:89:LEU:HD11	1:A:103:LYS:H	6	0.13
(1,259)	1:A:89:LEU:HD12	1:A:103:LYS:H	6	0.13
(1,259)	1:A:89:LEU:HD13	1:A:103:LYS:H	6	0.13
(1,259)	1:A:89:LEU:HD11	1:A:103:LYS:H	8	0.13
(1,259)	1:A:89:LEU:HD12	1:A:103:LYS:H	8	0.13
(1,259)	1:A:89:LEU:HD13	1:A:103:LYS:H	8	0.13
(1,252)	1:A:89:LEU:H	1:A:90:LYS:H	3	0.13
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD21	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD22	2	0.13
(1,245)	1:A:89:LEU:HA	1:A:89:LEU:HD23	2	0.13
(1,21)	1:A:70:LEU:HD11	1:A:71:GLU:H	2	0.13
(1,21)	1:A:70:LEU:HD12	1:A:71:GLU:H	2	0.13
(1,21)	1:A:70:LEU:HD13	1:A:71:GLU:H	2	0.13
(1,21)	1:A:70:LEU:HD21	1:A:71:GLU:H	2	0.13
(1,21)	1:A:70:LEU:HD22	1:A:71:GLU:H	2	0.13
(1,21)	1:A:70:LEU:HD23	1:A:71:GLU:H	2	0.13
(1,1734)	1:B:152:VAL:H	1:B:152:VAL:HG11	8	0.13
(1,1734)	1:B:152:VAL:H	1:B:152:VAL:HG12	8	0.13
(1,1734)	1:B:152:VAL:H	1:B:152:VAL:HG13	8	0.13
(1,1734)	1:B:152:VAL:H	1:B:152:VAL:HG21	8	0.13
(1,1734)	1:B:152:VAL:H	1:B:152:VAL:HG22	8	0.13
(1,1734)	1:B:152:VAL:H	1:B:152:VAL:HG23	8	0.13
(1,1727)	1:B:150:LYS:H	1:B:151:GLN:H	7	0.13
(1,1723)	1:B:150:LYS:H	1:B:149:ARG:H	1	0.13
(1,1720)	1:B:148:PRO:HA	1:B:148:PRO:HG2	6	0.13
(1,1720)	1:B:148:PRO:HA	1:B:148:PRO:HG3	6	0.13
(1,1714)	1:B:147:GLY:HA2	1:B:147:GLY:H	5	0.13
(1,1701)	1:B:146:ASP:HB3	1:B:146:ASP:HA	5	0.13
(1,1701)	1:B:146:ASP:HB3	1:B:146:ASP:HA	8	0.13
(1,1700)	1:B:146:ASP:HB3	1:B:146:ASP:HA	5	0.13
(1,1700)	1:B:146:ASP:HB3	1:B:146:ASP:HA	8	0.13
(1,1679)	1:B:145:VAL:HB	1:B:135:SER:HA	8	0.13
(1,1669)	1:B:144:THR:HB	1:B:144:THR:H	1	0.13
(1,160)	1:A:81:VAL:H	1:A:82:LYS:H	4	0.13
(1,1598)	1:B:134:THR:HG21	1:B:135:SER:H	8	0.13
(1,1598)	1:B:134:THR:HG22	1:B:135:SER:H	8	0.13
(1,1598)	1:B:134:THR:HG23	1:B:135:SER:H	8	0.13
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	1	0.13
(1,1540)	1:B:127:ASP:HB3	1:B:128:VAL:H	4	0.13
(1,1537)	1:B:127:ASP:HB3	1:B:127:ASP:H	4	0.13
(1,1511)	1:B:125:PRO:HD2	1:B:124:ILE:HB	2	0.13
(1,1482)	1:B:124:ILE:HB	1:B:97:VAL:HA	4	0.13
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD2	1	0.13
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD3	1	0.13
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD2	7	0.13
(1,1473)	1:B:123:ARG:HB2	1:B:123:ARG:HD3	7	0.13
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG11	8	0.13
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG12	8	0.13
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG13	8	0.13
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG21	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG22	8	0.13
(1,1449)	1:B:121:LYS:HA	1:B:97:VAL:HG23	8	0.13
(1,1420)	1:B:118:PHE:HD1	1:B:103:LYS:H	1	0.13
(1,1420)	1:B:118:PHE:HD2	1:B:103:LYS:H	1	0.13
(1,1408)	1:B:117:GLU:HA	1:B:103:LYS:HG2	1	0.13
(1,1408)	1:B:117:GLU:HA	1:B:103:LYS:HG3	1	0.13
(1,1408)	1:B:117:GLU:HA	1:B:103:LYS:HG2	2	0.13
(1,1408)	1:B:117:GLU:HA	1:B:103:LYS:HG3	2	0.13
(1,1402)	1:B:116:ARG:H	1:B:104:HIS:H	7	0.13
(1,1401)	1:B:116:ARG:H	1:B:104:HIS:H	7	0.13
(1,1399)	1:B:115:SER:HB3	1:B:116:ARG:H	9	0.13
(1,1377)	1:B:114:ILE:HG21	1:B:111:HIS:H	3	0.13
(1,1377)	1:B:114:ILE:HG22	1:B:111:HIS:H	3	0.13
(1,1377)	1:B:114:ILE:HG23	1:B:111:HIS:H	3	0.13
(1,1372)	1:B:114:ILE:HD11	1:B:107:ARG:HG2	7	0.13
(1,1372)	1:B:114:ILE:HD11	1:B:107:ARG:HG3	7	0.13
(1,1372)	1:B:114:ILE:HD12	1:B:107:ARG:HG2	7	0.13
(1,1372)	1:B:114:ILE:HD12	1:B:107:ARG:HG3	7	0.13
(1,1372)	1:B:114:ILE:HD13	1:B:107:ARG:HG2	7	0.13
(1,1372)	1:B:114:ILE:HD13	1:B:107:ARG:HG3	7	0.13
(1,1369)	1:B:114:ILE:HD11	1:B:104:HIS:HB2	3	0.13
(1,1369)	1:B:114:ILE:HD12	1:B:104:HIS:HB2	3	0.13
(1,1369)	1:B:114:ILE:HD13	1:B:104:HIS:HB2	3	0.13
(1,1349)	1:B:113:PHE:HD1	1:B:107:ARG:HA	6	0.13
(1,1349)	1:B:113:PHE:HD2	1:B:107:ARG:HA	6	0.13
(1,1318)	1:B:109:ASP:H	1:B:112:GLY:H	4	0.13
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB2	6	0.13
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB3	6	0.13
(1,1294)	1:B:107:ARG:HB3	1:B:107:ARG:H	3	0.13
(1,1292)	1:B:107:ARG:HA	1:B:107:ARG:H	6	0.13
(1,1291)	1:B:107:ARG:HG2	1:B:107:ARG:HA	4	0.13
(1,1291)	1:B:107:ARG:HG3	1:B:107:ARG:HA	4	0.13
(1,1284)	1:B:105:GLU:HG2	1:B:106:GLU:H	9	0.13
(1,1284)	1:B:105:GLU:HG3	1:B:106:GLU:H	9	0.13
(1,1282)	1:B:105:GLU:HA	1:B:106:GLU:H	5	0.13
(1,1242)	1:B:101:HIS:HB2	1:B:101:HIS:HA	1	0.13
(1,1242)	1:B:101:HIS:HB2	1:B:101:HIS:HA	3	0.13
(1,1242)	1:B:101:HIS:HB2	1:B:101:HIS:HA	6	0.13
(1,1241)	1:B:101:HIS:HB2	1:B:101:HIS:HA	1	0.13
(1,1241)	1:B:101:HIS:HB2	1:B:101:HIS:HA	3	0.13
(1,1241)	1:B:101:HIS:HB2	1:B:101:HIS:HA	6	0.13
(1,1236)	1:B:101:HIS:H	1:B:100:VAL:HA	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1225)	1:B:100:VAL:HG11	1:B:92:LYS:H	9	0.13
(1,1225)	1:B:100:VAL:HG12	1:B:92:LYS:H	9	0.13
(1,1225)	1:B:100:VAL:HG13	1:B:92:LYS:H	9	0.13
(1,1213)	1:B:98:ILE:H	1:B:122:TYR:H	1	0.13
(1,1212)	1:B:98:ILE:H	1:B:122:TYR:H	1	0.13
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	5	0.13
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	8	0.13
(1,1193)	1:B:97:VAL:HB	1:B:97:VAL:HA	2	0.13
(1,1193)	1:B:97:VAL:HB	1:B:97:VAL:HA	9	0.13
(1,1192)	1:B:97:VAL:HB	1:B:97:VAL:HA	2	0.13
(1,1192)	1:B:97:VAL:HB	1:B:97:VAL:HA	9	0.13
(1,116)	1:A:77:VAL:H	1:A:145:VAL:H	9	0.13
(1,1126)	1:B:89:LEU:HD11	1:B:103:LYS:H	6	0.13
(1,1126)	1:B:89:LEU:HD12	1:B:103:LYS:H	6	0.13
(1,1126)	1:B:89:LEU:HD13	1:B:103:LYS:H	6	0.13
(1,1126)	1:B:89:LEU:HD11	1:B:103:LYS:H	8	0.13
(1,1126)	1:B:89:LEU:HD12	1:B:103:LYS:H	8	0.13
(1,1126)	1:B:89:LEU:HD13	1:B:103:LYS:H	8	0.13
(1,1119)	1:B:89:LEU:H	1:B:90:LYS:H	3	0.13
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD21	2	0.13
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD22	2	0.13
(1,1112)	1:B:89:LEU:HA	1:B:89:LEU:HD23	2	0.13
(1,1027)	1:B:81:VAL:H	1:B:82:LYS:H	4	0.13
(1,997)	1:B:78:ASN:HB2	1:B:79:LEU:H	3	0.12
(1,997)	1:B:78:ASN:HB2	1:B:79:LEU:H	5	0.12
(1,996)	1:B:78:ASN:HB3	1:B:79:LEU:H	5	0.12
(1,990)	1:B:78:ASN:HB3	1:B:78:ASN:H	4	0.12
(1,990)	1:B:78:ASN:HB3	1:B:78:ASN:H	5	0.12
(1,961)	1:B:77:VAL:HA	1:B:77:VAL:HB	6	0.12
(1,957)	1:B:77:VAL:HA	1:B:77:VAL:HB	6	0.12
(1,945)	1:B:76:SER:HA	1:B:146:ASP:HA	4	0.12
(1,942)	1:B:76:SER:HB3	1:B:146:ASP:HB3	9	0.12
(1,941)	1:B:76:SER:HA	1:B:146:ASP:HA	4	0.12
(1,94)	1:A:77:VAL:HA	1:A:77:VAL:HB	6	0.12
(1,90)	1:A:77:VAL:HA	1:A:77:VAL:HB	6	0.12
(1,896)	1:B:72:LYS:HB2	1:B:72:LYS:H	3	0.12
(1,896)	1:B:72:LYS:HB3	1:B:72:LYS:H	3	0.12
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD11	8	0.12
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD12	8	0.12
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD13	8	0.12
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD21	8	0.12
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD22	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,879)	1:B:68:MET:HE1	1:B:70:LEU:HD23	8	0.12
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD11	8	0.12
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD12	8	0.12
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD13	8	0.12
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD21	8	0.12
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD22	8	0.12
(1,879)	1:B:68:MET:HE2	1:B:70:LEU:HD23	8	0.12
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD11	8	0.12
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD12	8	0.12
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD13	8	0.12
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD21	8	0.12
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD22	8	0.12
(1,879)	1:B:68:MET:HE3	1:B:70:LEU:HD23	8	0.12
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG2	9	0.12
(1,874)	1:B:68:MET:HA	1:B:68:MET:HG3	9	0.12
(1,808)	1:A:144:THR:H	1:A:145:VAL:H	1	0.12
(1,808)	1:A:144:THR:H	1:A:145:VAL:H	7	0.12
(1,803)	1:A:144:THR:H	1:A:145:VAL:H	1	0.12
(1,803)	1:A:144:THR:H	1:A:145:VAL:H	7	0.12
(1,787)	1:A:143:LEU:H	1:A:79:LEU:H	7	0.12
(1,78)	1:A:76:SER:HA	1:A:146:ASP:HA	4	0.12
(1,77)	1:A:76:SER:HB2	1:A:146:ASP:HB3	1	0.12
(1,74)	1:A:76:SER:HA	1:A:146:ASP:HA	4	0.12
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG2	9	0.12
(1,7)	1:A:68:MET:HA	1:A:68:MET:HG3	9	0.12
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	3	0.12
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	3	0.12
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD2	6	0.12
(1,681)	1:A:128:VAL:H	1:A:150:LYS:HD3	6	0.12
(1,680)	1:A:128:VAL:H	1:A:129:ASP:H	6	0.12
(1,662)	1:A:127:ASP:H	1:A:125:PRO:HB2	2	0.12
(1,662)	1:A:127:ASP:H	1:A:125:PRO:HB3	2	0.12
(1,607)	1:A:123:ARG:HB3	1:A:123:ARG:HD2	3	0.12
(1,607)	1:A:123:ARG:HB3	1:A:123:ARG:HD3	3	0.12
(1,598)	1:A:122:TYR:HB2	1:A:122:TYR:H	1	0.12
(1,598)	1:A:122:TYR:HB3	1:A:122:TYR:H	1	0.12
(1,597)	1:A:122:TYR:HB2	1:A:122:TYR:H	1	0.12
(1,597)	1:A:122:TYR:HB3	1:A:122:TYR:H	1	0.12
(1,596)	1:A:122:TYR:HA	1:A:122:TYR:H	4	0.12
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG21	8	0.12
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG22	8	0.12
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG23	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG21	8	0.12
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG22	8	0.12
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG23	8	0.12
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD1	2	0.12
(1,559)	1:A:118:PHE:HA	1:A:118:PHE:HD2	2	0.12
(1,532)	1:A:115:SER:HB3	1:A:116:ARG:H	2	0.12
(1,465)	1:A:111:HIS:HB2	1:A:111:HIS:H	5	0.12
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB2	3	0.12
(1,447)	1:A:109:ASP:H	1:A:109:ASP:HB3	3	0.12
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB2	4	0.12
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB3	4	0.12
(1,419)	1:A:105:GLU:HA	1:A:116:ARG:H	8	0.12
(1,414)	1:A:105:GLU:HG2	1:A:105:GLU:H	8	0.12
(1,414)	1:A:105:GLU:HG3	1:A:105:GLU:H	8	0.12
(1,395)	1:A:103:LYS:HG2	1:A:103:LYS:H	7	0.12
(1,395)	1:A:103:LYS:HG3	1:A:103:LYS:H	7	0.12
(1,390)	1:A:102:GLY:HA2	1:A:103:LYS:H	6	0.12
(1,372)	1:A:101:HIS:HA	1:A:101:HIS:HD2	1	0.12
(1,372)	1:A:101:HIS:HA	1:A:101:HIS:HD2	2	0.12
(1,358)	1:A:100:VAL:HG11	1:A:92:LYS:H	9	0.12
(1,358)	1:A:100:VAL:HG12	1:A:92:LYS:H	9	0.12
(1,358)	1:A:100:VAL:HG13	1:A:92:LYS:H	9	0.12
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	7	0.12
(1,341)	1:A:98:ILE:HB	1:A:99:GLU:H	9	0.12
(1,335)	1:A:98:ILE:H	1:A:97:VAL:H	1	0.12
(1,335)	1:A:98:ILE:H	1:A:97:VAL:H	3	0.12
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD11	6	0.12
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD12	6	0.12
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD13	6	0.12
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD21	6	0.12
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD22	6	0.12
(1,297)	1:A:95:GLY:HA2	1:A:94:LEU:HD23	6	0.12
(1,29)	1:A:72:LYS:HB2	1:A:72:LYS:H	3	0.12
(1,29)	1:A:72:LYS:HB3	1:A:72:LYS:H	3	0.12
(1,280)	1:A:92:LYS:H	1:A:100:VAL:HA	4	0.12
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG21	2	0.12
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG22	2	0.12
(1,268)	1:A:91:VAL:H	1:A:91:VAL:HG23	2	0.12
(1,1744)	1:A:114:ILE:HA	1:B:120:ARG:HB2	9	0.12
(1,1744)	1:A:114:ILE:HA	1:B:120:ARG:HB3	9	0.12
(1,1675)	1:B:144:THR:H	1:B:145:VAL:H	1	0.12
(1,1675)	1:B:144:THR:H	1:B:145:VAL:H	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1670)	1:B:144:THR:H	1:B:145:VAL:H	1	0.12
(1,1670)	1:B:144:THR:H	1:B:145:VAL:H	7	0.12
(1,1654)	1:B:143:LEU:H	1:B:79:LEU:H	7	0.12
(1,163)	1:A:81:VAL:HG21	1:A:83:HIS:H	6	0.12
(1,163)	1:A:81:VAL:HG22	1:A:83:HIS:H	6	0.12
(1,163)	1:A:81:VAL:HG23	1:A:83:HIS:H	6	0.12
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	3	0.12
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	3	0.12
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD2	6	0.12
(1,1548)	1:B:128:VAL:H	1:B:150:LYS:HD3	6	0.12
(1,1547)	1:B:128:VAL:H	1:B:129:ASP:H	6	0.12
(1,1529)	1:B:127:ASP:H	1:B:125:PRO:HB2	2	0.12
(1,1529)	1:B:127:ASP:H	1:B:125:PRO:HB3	2	0.12
(1,1528)	1:B:126:ALA:HB1	1:B:128:VAL:H	2	0.12
(1,1528)	1:B:126:ALA:HB2	1:B:128:VAL:H	2	0.12
(1,1528)	1:B:126:ALA:HB3	1:B:128:VAL:H	2	0.12
(1,1474)	1:B:123:ARG:HB3	1:B:123:ARG:HD2	3	0.12
(1,1474)	1:B:123:ARG:HB3	1:B:123:ARG:HD3	3	0.12
(1,1465)	1:B:122:TYR:HB2	1:B:122:TYR:H	1	0.12
(1,1465)	1:B:122:TYR:HB3	1:B:122:TYR:H	1	0.12
(1,1464)	1:B:122:TYR:HB2	1:B:122:TYR:H	1	0.12
(1,1464)	1:B:122:TYR:HB3	1:B:122:TYR:H	1	0.12
(1,1463)	1:B:122:TYR:HA	1:B:122:TYR:H	4	0.12
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG21	8	0.12
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG22	8	0.12
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG23	8	0.12
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG21	8	0.12
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG22	8	0.12
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG23	8	0.12
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD1	2	0.12
(1,1426)	1:B:118:PHE:HA	1:B:118:PHE:HD2	2	0.12
(1,1399)	1:B:115:SER:HB3	1:B:116:ARG:H	2	0.12
(1,1366)	1:B:113:PHE:HA	1:B:113:PHE:H	6	0.12
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB2	3	0.12
(1,1314)	1:B:109:ASP:H	1:B:109:ASP:HB3	3	0.12
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB2	4	0.12
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB3	4	0.12
(1,130)	1:A:78:ASN:HB2	1:A:79:LEU:H	3	0.12
(1,130)	1:A:78:ASN:HB2	1:A:79:LEU:H	5	0.12
(1,129)	1:A:78:ASN:HB3	1:A:79:LEU:H	5	0.12
(1,1286)	1:B:105:GLU:HA	1:B:116:ARG:H	8	0.12
(1,1281)	1:B:105:GLU:HG2	1:B:105:GLU:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1281)	1:B:105:GLU:HG3	1:B:105:GLU:H	8	0.12
(1,1262)	1:B:103:LYS:HG2	1:B:103:LYS:H	7	0.12
(1,1262)	1:B:103:LYS:HG3	1:B:103:LYS:H	7	0.12
(1,1257)	1:B:102:GLY:HA2	1:B:103:LYS:H	6	0.12
(1,1239)	1:B:101:HIS:HA	1:B:101:HIS:HD2	1	0.12
(1,1239)	1:B:101:HIS:HA	1:B:101:HIS:HD2	2	0.12
(1,123)	1:A:78:ASN:HB3	1:A:78:ASN:H	4	0.12
(1,123)	1:A:78:ASN:HB3	1:A:78:ASN:H	5	0.12
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	7	0.12
(1,1208)	1:B:98:ILE:HB	1:B:99:GLU:H	9	0.12
(1,1202)	1:B:98:ILE:H	1:B:97:VAL:H	1	0.12
(1,1202)	1:B:98:ILE:H	1:B:97:VAL:H	3	0.12
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD11	8	0.12
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD12	8	0.12
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD13	8	0.12
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD21	8	0.12
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD22	8	0.12
(1,12)	1:A:68:MET:HE1	1:A:70:LEU:HD23	8	0.12
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD11	8	0.12
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD12	8	0.12
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD13	8	0.12
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD21	8	0.12
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD22	8	0.12
(1,12)	1:A:68:MET:HE2	1:A:70:LEU:HD23	8	0.12
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD11	8	0.12
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD12	8	0.12
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD13	8	0.12
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD21	8	0.12
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD22	8	0.12
(1,12)	1:A:68:MET:HE3	1:A:70:LEU:HD23	8	0.12
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD11	6	0.12
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD12	6	0.12
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD13	6	0.12
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD21	6	0.12
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD22	6	0.12
(1,1164)	1:B:95:GLY:HA2	1:B:94:LEU:HD23	6	0.12
(1,1147)	1:B:92:LYS:H	1:B:100:VAL:HA	4	0.12
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG21	2	0.12
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG22	2	0.12
(1,1135)	1:B:91:VAL:H	1:B:91:VAL:HG23	2	0.12
(1,1030)	1:B:81:VAL:HG21	1:B:83:HIS:H	6	0.12
(1,1030)	1:B:81:VAL:HG22	1:B:83:HIS:H	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:B:81:VAL:HG23	1:B:83:HIS:H	6	0.12
(1,970)	1:B:77:VAL:H	1:B:78:ASN:H	9	0.11
(1,944)	1:B:76:SER:HB2	1:B:146:ASP:HB3	2	0.11
(1,944)	1:B:76:SER:HB2	1:B:146:ASP:HB3	6	0.11
(1,924)	1:B:75:PHE:H	1:B:149:ARG:H	5	0.11
(1,923)	1:B:75:PHE:HD1	1:B:148:PRO:HA	8	0.11
(1,923)	1:B:75:PHE:HD2	1:B:148:PRO:HA	8	0.11
(1,914)	1:B:75:PHE:HA	1:B:75:PHE:HD1	9	0.11
(1,914)	1:B:75:PHE:HA	1:B:75:PHE:HD2	9	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB2	1	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB3	1	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB2	2	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB3	2	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB2	3	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB3	3	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB2	4	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB3	4	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB2	6	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB3	6	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB2	9	0.11
(1,903)	1:B:74:ARG:H	1:B:73:ASP:HB3	9	0.11
(1,856)	1:A:150:LYS:H	1:A:149:ARG:H	3	0.11
(1,847)	1:A:147:GLY:HA2	1:A:147:GLY:H	1	0.11
(1,847)	1:A:147:GLY:HA2	1:A:147:GLY:H	6	0.11
(1,847)	1:A:147:GLY:HA2	1:A:147:GLY:H	9	0.11
(1,834)	1:A:146:ASP:HB3	1:A:146:ASP:HA	2	0.11
(1,834)	1:A:146:ASP:HB3	1:A:146:ASP:HA	4	0.11
(1,834)	1:A:146:ASP:HB3	1:A:146:ASP:HA	7	0.11
(1,833)	1:A:146:ASP:HB3	1:A:146:ASP:HA	2	0.11
(1,833)	1:A:146:ASP:HB3	1:A:146:ASP:HA	4	0.11
(1,833)	1:A:146:ASP:HB3	1:A:146:ASP:HA	7	0.11
(1,805)	1:A:144:THR:HG21	1:A:145:VAL:H	5	0.11
(1,805)	1:A:144:THR:HG22	1:A:145:VAL:H	5	0.11
(1,805)	1:A:144:THR:HG23	1:A:145:VAL:H	5	0.11
(1,794)	1:A:144:THR:HG21	1:A:78:ASN:HA	3	0.11
(1,794)	1:A:144:THR:HG22	1:A:78:ASN:HA	3	0.11
(1,794)	1:A:144:THR:HG23	1:A:78:ASN:HA	3	0.11
(1,784)	1:A:142:VAL:H	1:A:143:LEU:H	2	0.11
(1,77)	1:A:76:SER:HB2	1:A:146:ASP:HB3	2	0.11
(1,77)	1:A:76:SER:HB2	1:A:146:ASP:HB3	6	0.11
(1,75)	1:A:76:SER:HB3	1:A:146:ASP:HB3	9	0.11
(1,737)	1:A:135:SER:HA	1:A:136:SER:H	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,713)	1:A:133:ILE:HD11	1:A:130:PRO:HB2	9	0.11
(1,713)	1:A:133:ILE:HD11	1:A:130:PRO:HB3	9	0.11
(1,713)	1:A:133:ILE:HD12	1:A:130:PRO:HB2	9	0.11
(1,713)	1:A:133:ILE:HD12	1:A:130:PRO:HB3	9	0.11
(1,713)	1:A:133:ILE:HD13	1:A:130:PRO:HB2	9	0.11
(1,713)	1:A:133:ILE:HD13	1:A:130:PRO:HB3	9	0.11
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE1	4	0.11
(1,711)	1:A:133:ILE:HG21	1:A:75:PHE:HE2	4	0.11
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE1	4	0.11
(1,711)	1:A:133:ILE:HG22	1:A:75:PHE:HE2	4	0.11
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE1	4	0.11
(1,711)	1:A:133:ILE:HG23	1:A:75:PHE:HE2	4	0.11
(1,700)	1:A:132:THR:HG21	1:A:132:THR:H	2	0.11
(1,700)	1:A:132:THR:HG22	1:A:132:THR:H	2	0.11
(1,700)	1:A:132:THR:HG23	1:A:132:THR:H	2	0.11
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG11	4	0.11
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG12	4	0.11
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG13	4	0.11
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG21	4	0.11
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG22	4	0.11
(1,674)	1:A:127:ASP:H	1:A:128:VAL:HG23	4	0.11
(1,661)	1:A:126:ALA:HB1	1:A:128:VAL:H	2	0.11
(1,661)	1:A:126:ALA:HB2	1:A:128:VAL:H	2	0.11
(1,661)	1:A:126:ALA:HB3	1:A:128:VAL:H	2	0.11
(1,656)	1:A:125:PRO:HA	1:A:127:ASP:H	7	0.11
(1,602)	1:A:122:TYR:HA	1:A:123:ARG:H	6	0.11
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG21	3	0.11
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG22	3	0.11
(1,589)	1:A:122:TYR:HE1	1:A:98:ILE:HG23	3	0.11
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG21	3	0.11
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG22	3	0.11
(1,589)	1:A:122:TYR:HE2	1:A:98:ILE:HG23	3	0.11
(1,57)	1:A:75:PHE:H	1:A:149:ARG:H	5	0.11
(1,569)	1:A:119:HIS:HA	1:A:101:HIS:HA	1	0.11
(1,56)	1:A:75:PHE:HD1	1:A:148:PRO:HA	8	0.11
(1,56)	1:A:75:PHE:HD2	1:A:148:PRO:HA	8	0.11
(1,552)	1:A:118:PHE:HE1	1:A:103:LYS:H	3	0.11
(1,552)	1:A:118:PHE:HE2	1:A:103:LYS:H	3	0.11
(1,542)	1:A:117:GLU:HA	1:A:103:LYS:HD2	5	0.11
(1,542)	1:A:117:GLU:HA	1:A:103:LYS:HD3	5	0.11
(1,535)	1:A:116:ARG:H	1:A:104:HIS:H	3	0.11
(1,535)	1:A:116:ARG:H	1:A:104:HIS:H	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,534)	1:A:116:ARG:H	1:A:104:HIS:H	3	0.11
(1,534)	1:A:116:ARG:H	1:A:104:HIS:H	5	0.11
(1,532)	1:A:115:SER:HB3	1:A:116:ARG:H	4	0.11
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD11	2	0.11
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD12	2	0.11
(1,526)	1:A:115:SER:HA	1:A:114:ILE:HD13	2	0.11
(1,510)	1:A:114:ILE:HG21	1:A:111:HIS:H	1	0.11
(1,510)	1:A:114:ILE:HG22	1:A:111:HIS:H	1	0.11
(1,510)	1:A:114:ILE:HG23	1:A:111:HIS:H	1	0.11
(1,499)	1:A:113:PHE:HA	1:A:113:PHE:H	6	0.11
(1,482)	1:A:113:PHE:HD1	1:A:107:ARG:HA	5	0.11
(1,482)	1:A:113:PHE:HD2	1:A:107:ARG:HA	5	0.11
(1,47)	1:A:75:PHE:HA	1:A:75:PHE:HD1	9	0.11
(1,47)	1:A:75:PHE:HA	1:A:75:PHE:HD2	9	0.11
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB2	5	0.11
(1,442)	1:A:108:GLN:HA	1:A:108:GLN:HB3	5	0.11
(1,425)	1:A:107:ARG:HA	1:A:107:ARG:H	7	0.11
(1,425)	1:A:107:ARG:HA	1:A:107:ARG:H	9	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB2	1	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB3	1	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB2	2	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB3	2	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB2	3	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB3	3	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB2	4	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB3	4	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB2	6	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB3	6	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB2	9	0.11
(1,36)	1:A:74:ARG:H	1:A:73:ASP:HB3	9	0.11
(1,335)	1:A:98:ILE:H	1:A:97:VAL:H	7	0.11
(1,326)	1:A:97:VAL:HB	1:A:97:VAL:HA	7	0.11
(1,326)	1:A:97:VAL:HB	1:A:97:VAL:HA	8	0.11
(1,325)	1:A:97:VAL:HB	1:A:97:VAL:HA	7	0.11
(1,325)	1:A:97:VAL:HB	1:A:97:VAL:HA	8	0.11
(1,295)	1:A:94:LEU:H	1:A:97:VAL:H	8	0.11
(1,291)	1:A:94:LEU:HD11	1:A:94:LEU:H	1	0.11
(1,291)	1:A:94:LEU:HD12	1:A:94:LEU:H	1	0.11
(1,291)	1:A:94:LEU:HD13	1:A:94:LEU:H	1	0.11
(1,291)	1:A:94:LEU:HD21	1:A:94:LEU:H	1	0.11
(1,291)	1:A:94:LEU:HD22	1:A:94:LEU:H	1	0.11
(1,291)	1:A:94:LEU:HD23	1:A:94:LEU:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,288)	1:A:93:VAL:HA	1:A:99:GLU:H	8	0.11
(1,279)	1:A:92:LYS:H	1:A:99:GLU:H	6	0.11
(1,242)	1:A:89:LEU:H	1:A:88:GLU:H	6	0.11
(1,241)	1:A:89:LEU:H	1:A:88:GLU:H	6	0.11
(1,173)	1:A:83:HIS:HA	1:A:83:HIS:HD2	1	0.11
(1,1723)	1:B:150:LYS:H	1:B:149:ARG:H	3	0.11
(1,1714)	1:B:147:GLY:HA2	1:B:147:GLY:H	1	0.11
(1,1714)	1:B:147:GLY:HA2	1:B:147:GLY:H	6	0.11
(1,1714)	1:B:147:GLY:HA2	1:B:147:GLY:H	9	0.11
(1,1701)	1:B:146:ASP:HB3	1:B:146:ASP:HA	2	0.11
(1,1701)	1:B:146:ASP:HB3	1:B:146:ASP:HA	4	0.11
(1,1701)	1:B:146:ASP:HB3	1:B:146:ASP:HA	7	0.11
(1,1700)	1:B:146:ASP:HB3	1:B:146:ASP:HA	2	0.11
(1,1700)	1:B:146:ASP:HB3	1:B:146:ASP:HA	4	0.11
(1,1700)	1:B:146:ASP:HB3	1:B:146:ASP:HA	7	0.11
(1,1672)	1:B:144:THR:HG21	1:B:145:VAL:H	5	0.11
(1,1672)	1:B:144:THR:HG22	1:B:145:VAL:H	5	0.11
(1,1672)	1:B:144:THR:HG23	1:B:145:VAL:H	5	0.11
(1,1651)	1:B:142:VAL:H	1:B:143:LEU:H	2	0.11
(1,1650)	1:B:142:VAL:HG11	1:B:142:VAL:H	7	0.11
(1,1650)	1:B:142:VAL:HG12	1:B:142:VAL:H	7	0.11
(1,1650)	1:B:142:VAL:HG13	1:B:142:VAL:H	7	0.11
(1,1650)	1:B:142:VAL:HG21	1:B:142:VAL:H	7	0.11
(1,1650)	1:B:142:VAL:HG22	1:B:142:VAL:H	7	0.11
(1,1650)	1:B:142:VAL:HG23	1:B:142:VAL:H	7	0.11
(1,1649)	1:B:142:VAL:HG11	1:B:142:VAL:H	7	0.11
(1,1649)	1:B:142:VAL:HG12	1:B:142:VAL:H	7	0.11
(1,1649)	1:B:142:VAL:HG13	1:B:142:VAL:H	7	0.11
(1,1649)	1:B:142:VAL:HG21	1:B:142:VAL:H	7	0.11
(1,1649)	1:B:142:VAL:HG22	1:B:142:VAL:H	7	0.11
(1,1649)	1:B:142:VAL:HG23	1:B:142:VAL:H	7	0.11
(1,1604)	1:B:135:SER:HA	1:B:136:SER:H	7	0.11
(1,1580)	1:B:133:ILE:HD11	1:B:130:PRO:HB2	9	0.11
(1,1580)	1:B:133:ILE:HD11	1:B:130:PRO:HB3	9	0.11
(1,1580)	1:B:133:ILE:HD12	1:B:130:PRO:HB2	9	0.11
(1,1580)	1:B:133:ILE:HD12	1:B:130:PRO:HB3	9	0.11
(1,1580)	1:B:133:ILE:HD13	1:B:130:PRO:HB2	9	0.11
(1,1580)	1:B:133:ILE:HD13	1:B:130:PRO:HB3	9	0.11
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE1	4	0.11
(1,1578)	1:B:133:ILE:HG21	1:B:75:PHE:HE2	4	0.11
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE1	4	0.11
(1,1578)	1:B:133:ILE:HG22	1:B:75:PHE:HE2	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE1	4	0.11
(1,1578)	1:B:133:ILE:HG23	1:B:75:PHE:HE2	4	0.11
(1,1572)	1:B:132:THR:HG1	1:B:133:ILE:H	8	0.11
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG11	4	0.11
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG12	4	0.11
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG13	4	0.11
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG21	4	0.11
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG22	4	0.11
(1,1541)	1:B:127:ASP:H	1:B:128:VAL:HG23	4	0.11
(1,1527)	1:B:126:ALA:HA	1:B:128:VAL:H	1	0.11
(1,1523)	1:B:125:PRO:HA	1:B:127:ASP:H	7	0.11
(1,1469)	1:B:122:TYR:HA	1:B:123:ARG:H	6	0.11
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG21	3	0.11
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG22	3	0.11
(1,1456)	1:B:122:TYR:HE1	1:B:98:ILE:HG23	3	0.11
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG21	3	0.11
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG22	3	0.11
(1,1456)	1:B:122:TYR:HE2	1:B:98:ILE:HG23	3	0.11
(1,1436)	1:B:119:HIS:HA	1:B:101:HIS:HA	1	0.11
(1,1419)	1:B:118:PHE:HE1	1:B:103:LYS:H	3	0.11
(1,1419)	1:B:118:PHE:HE2	1:B:103:LYS:H	3	0.11
(1,1409)	1:B:117:GLU:HA	1:B:103:LYS:HD2	5	0.11
(1,1409)	1:B:117:GLU:HA	1:B:103:LYS:HD3	5	0.11
(1,1402)	1:B:116:ARG:H	1:B:104:HIS:H	3	0.11
(1,1402)	1:B:116:ARG:H	1:B:104:HIS:H	5	0.11
(1,1401)	1:B:116:ARG:H	1:B:104:HIS:H	3	0.11
(1,1401)	1:B:116:ARG:H	1:B:104:HIS:H	5	0.11
(1,1399)	1:B:115:SER:HB3	1:B:116:ARG:H	4	0.11
(1,1399)	1:B:115:SER:HB3	1:B:116:ARG:H	8	0.11
(1,1377)	1:B:114:ILE:HG21	1:B:111:HIS:H	1	0.11
(1,1377)	1:B:114:ILE:HG22	1:B:111:HIS:H	1	0.11
(1,1377)	1:B:114:ILE:HG23	1:B:111:HIS:H	1	0.11
(1,1349)	1:B:113:PHE:HD1	1:B:107:ARG:HA	5	0.11
(1,1349)	1:B:113:PHE:HD2	1:B:107:ARG:HA	5	0.11
(1,1332)	1:B:111:HIS:HB2	1:B:111:HIS:H	5	0.11
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB2	5	0.11
(1,1309)	1:B:108:GLN:HA	1:B:108:GLN:HB3	5	0.11
(1,1294)	1:B:107:ARG:HB3	1:B:107:ARG:H	5	0.11
(1,1292)	1:B:107:ARG:HA	1:B:107:ARG:H	7	0.11
(1,1292)	1:B:107:ARG:HA	1:B:107:ARG:H	9	0.11
(1,1281)	1:B:105:GLU:HG2	1:B:105:GLU:H	6	0.11
(1,1281)	1:B:105:GLU:HG3	1:B:105:GLU:H	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1280)	1:B:105:GLU:HG2	1:B:105:GLU:H	6	0.11
(1,1280)	1:B:105:GLU:HG3	1:B:105:GLU:H	6	0.11
(1,1202)	1:B:98:ILE:H	1:B:97:VAL:H	7	0.11
(1,1193)	1:B:97:VAL:HB	1:B:97:VAL:HA	7	0.11
(1,1193)	1:B:97:VAL:HB	1:B:97:VAL:HA	8	0.11
(1,1192)	1:B:97:VAL:HB	1:B:97:VAL:HA	7	0.11
(1,1192)	1:B:97:VAL:HB	1:B:97:VAL:HA	8	0.11
(1,1162)	1:B:94:LEU:H	1:B:97:VAL:H	8	0.11
(1,1158)	1:B:94:LEU:HD11	1:B:94:LEU:H	1	0.11
(1,1158)	1:B:94:LEU:HD12	1:B:94:LEU:H	1	0.11
(1,1158)	1:B:94:LEU:HD13	1:B:94:LEU:H	1	0.11
(1,1158)	1:B:94:LEU:HD21	1:B:94:LEU:H	1	0.11
(1,1158)	1:B:94:LEU:HD22	1:B:94:LEU:H	1	0.11
(1,1158)	1:B:94:LEU:HD23	1:B:94:LEU:H	1	0.11
(1,1155)	1:B:93:VAL:HA	1:B:99:GLU:H	8	0.11
(1,1146)	1:B:92:LYS:H	1:B:99:GLU:H	6	0.11
(1,1040)	1:B:83:HIS:HA	1:B:83:HIS:HD2	1	0.11
(1,103)	1:A:77:VAL:H	1:A:78:ASN:H	9	0.11

10 Dihedral-angle violation analysis ⓘ

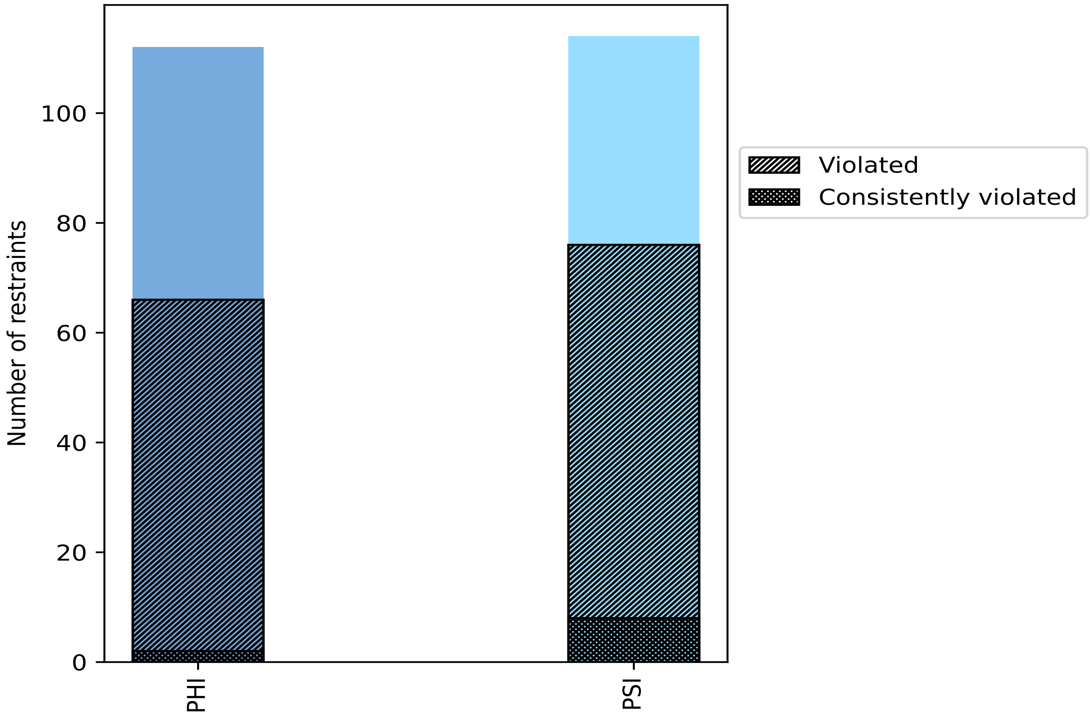
10.1 Summary of dihedral-angle violations ⓘ

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

Angle type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
PHI	112	49.6	66	58.9	29.2	2	1.8	0.9
PSI	114	50.4	76	66.7	33.6	8	7.0	3.5
Total	226	100.0	142	62.8	62.8	10	4.4	4.4

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

10.1.1 Bar chart : Distribution of dihedral-angles and violations ⓘ



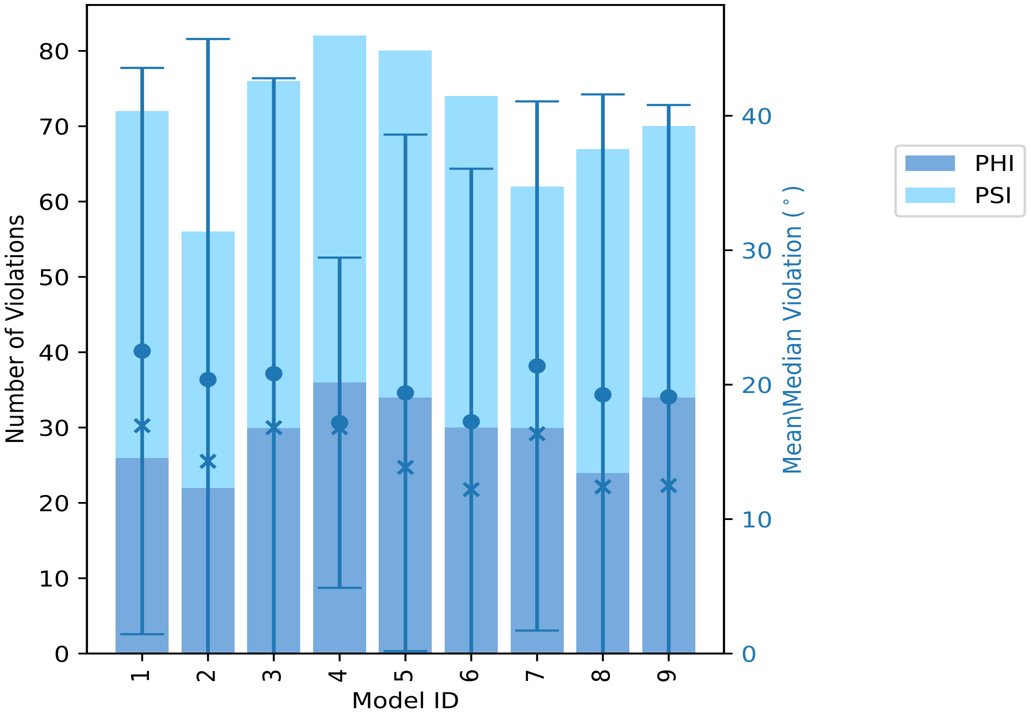
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PHI	PSI	Total				
1	26	46	72	22.5	108.8	21.06	16.95
2	22	34	56	20.38	134.6	25.33	14.3
3	30	46	76	20.82	118.0	21.97	16.8
4	36	46	82	17.17	45.6	12.28	16.8
5	34	46	80	19.39	107.5	19.21	13.85
6	30	44	74	17.25	107.5	18.81	12.2
7	30	32	62	21.39	105.0	19.68	16.35
8	24	43	67	19.25	122.5	22.34	12.4
9	34	36	70	19.09	119.6	21.71	12.5

10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ



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

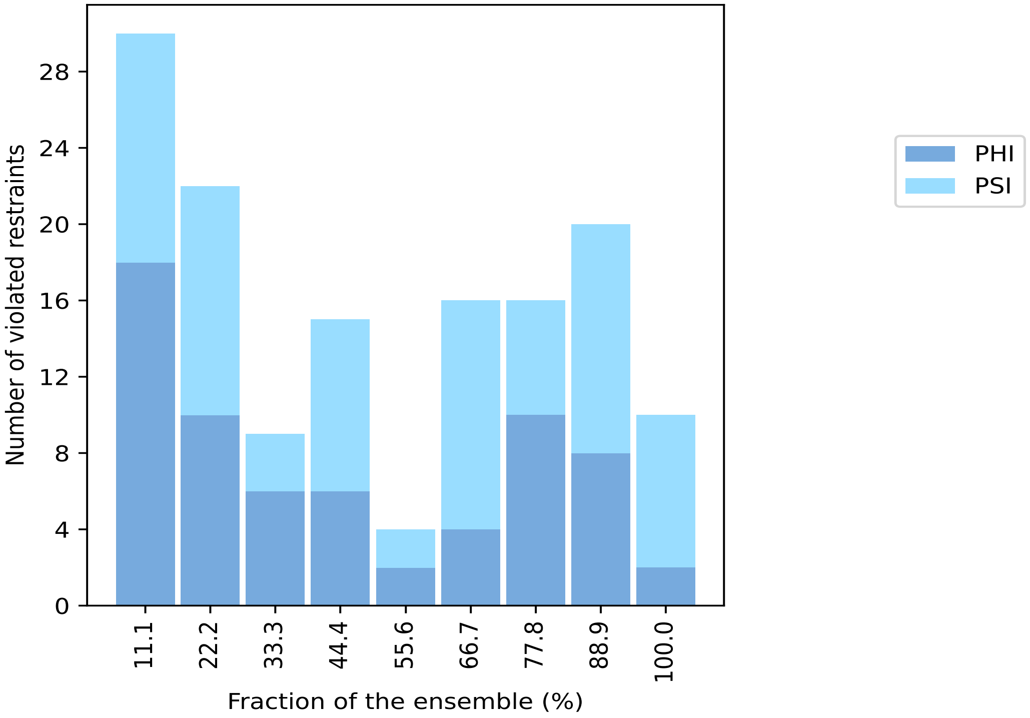
10.3 Dihedral-angle violation statistics for the ensemble ⓘ

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

Number of violated restraints			Fraction of the ensemble	
PHI	PSI	Total	Count[1]	%
18	12	30	1	11.1
10	12	22	2	22.2
6	3	9	3	33.3
6	9	15	4	44.4
2	2	4	5	55.6
4	12	16	6	66.7
10	6	16	7	77.8
8	12	20	8	88.9
2	8	10	9	100.0

[1] Number of models with violations

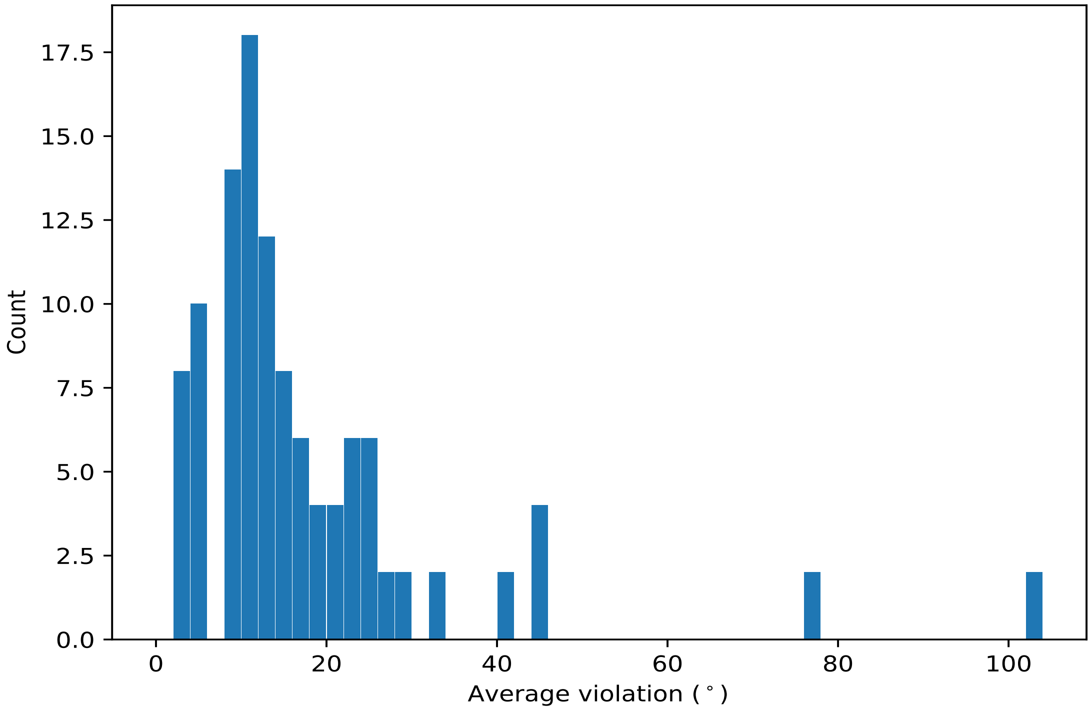
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble ⓘ



10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle violations ⓘ

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



10.4.2 Table: Most violated dihedral-angle restraints ⓘ

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	9	32.91	20.4	34.9
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	9	32.87	20.38	34.7
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	9	27.41	5.15	28.8
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	9	27.37	5.12	28.8
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	9	23.78	10.39	23.3
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	9	23.69	10.38	23.4
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	9	15.81	8.18	12.4
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	9	15.74	8.17	12.5
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	9	13.27	6.36	15.5
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	9	13.24	6.38	15.5
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	8	102.78	26.86	108.1
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	8	102.75	26.83	108.15
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	8	44.15	10.86	47.35

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models^1	Mean	SD^2	Median
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	8	44.14	10.87	47.45
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	8	29.8	7.94	32.4
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	8	29.79	7.96	32.5
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	8	24.6	10.0	27.05
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	8	24.59	10.0	27.0
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	8	24.4	8.34	23.0
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	8	24.38	8.37	22.95
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	8	24.24	9.5	22.5
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	8	24.19	9.52	22.55
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	8	23.18	11.97	22.75
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	8	23.14	11.94	22.8
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	8	21.86	6.47	24.5
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	8	21.85	6.45	24.55
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	8	16.3	7.3	15.6
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	8	16.25	7.33	15.5
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	8	13.39	11.0	10.1
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	8	13.38	10.94	10.15
(1,204)	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	1:B:135:SER:N	7	20.13	17.44	10.6
(1,91)	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	1:A:135:SER:N	7	20.11	17.39	10.6
(1,24)	1:A:92:LYS:N	1:A:92:LYS:CA	1:A:92:LYS:C	1:A:93:VAL:N	7	18.21	8.15	22.2
(1,137)	1:B:92:LYS:N	1:B:92:LYS:CA	1:B:92:LYS:C	1:B:93:VAL:N	7	18.2	8.16	22.2
(1,150)	1:B:100:VAL:C	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	7	17.06	9.13	14.2
(1,37)	1:A:100:VAL:C	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	7	16.99	9.08	14.3
(1,58)	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	1:A:115:SER:N	7	14.56	13.37	8.3
(1,171)	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	1:B:115:SER:N	7	14.54	13.35	8.3
(1,164)	1:B:107:ARG:C	1:B:108:GLN:N	1:B:108:GLN:CA	1:B:108:GLN:C	7	12.63	7.72	8.3
(1,51)	1:A:107:ARG:C	1:A:108:GLN:N	1:A:108:GLN:CA	1:A:108:GLN:C	7	12.6	7.6	8.4
(1,41)	1:A:102:GLY:C	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	7	11.69	4.23	10.6
(1,154)	1:B:102:GLY:C	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	7	11.69	4.26	10.7
(1,21)	1:A:90:LYS:C	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	7	10.84	5.65	9.6
(1,134)	1:B:90:LYS:C	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	7	10.84	5.71	9.6
(1,35)	1:A:99:GLU:C	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	7	9.59	3.77	8.4
(1,148)	1:B:99:GLU:C	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	7	9.59	3.72	8.4
(1,54)	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	1:A:112:GLY:N	6	45.13	9.64	44.8
(1,167)	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	1:B:112:GLY:N	6	45.02	9.65	44.65
(1,151)	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	1:B:102:GLY:N	6	41.27	7.43	45.0
(1,38)	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	1:A:102:GLY:N	6	41.2	7.47	45.0
(1,20)	1:A:90:LYS:N	1:A:90:LYS:CA	1:A:90:LYS:C	1:A:91:VAL:N	6	22.48	13.64	21.2
(1,133)	1:B:90:LYS:N	1:B:90:LYS:CA	1:B:90:LYS:C	1:B:91:VAL:N	6	22.47	13.64	21.15
(1,113)	1:A:146:ASP:N	1:A:146:ASP:CA	1:A:146:ASP:C	1:A:147:GLY:N	6	13.48	8.29	13.65
(1,226)	1:B:146:ASP:N	1:B:146:ASP:CA	1:B:146:ASP:C	1:B:147:GLY:N	6	13.48	8.32	13.65
(1,174)	1:B:115:SER:C	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	6	11.03	14.09	6.05
(1,61)	1:A:115:SER:C	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	6	11.02	14.04	6.0
(1,66)	1:A:118:PHE:N	1:A:118:PHE:CA	1:A:118:PHE:C	1:A:119:HIS:N	6	10.27	3.97	10.5
(1,179)	1:B:118:PHE:N	1:B:118:PHE:CA	1:B:118:PHE:C	1:B:119:HIS:N	6	10.25	3.96	10.5
(1,25)	1:A:92:LYS:C	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	6	4.98	2.22	4.55
(1,138)	1:B:92:LYS:C	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	6	4.93	2.25	4.55
(1,12)	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	1:A:81:VAL:N	6	4.5	3.48	2.75
(1,125)	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	1:B:81:VAL:N	6	4.48	3.41	2.75
(1,18)	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	1:A:90:LYS:N	5	16.78	7.39	12.8
(1,131)	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	1:B:90:LYS:N	5	16.74	7.39	12.7

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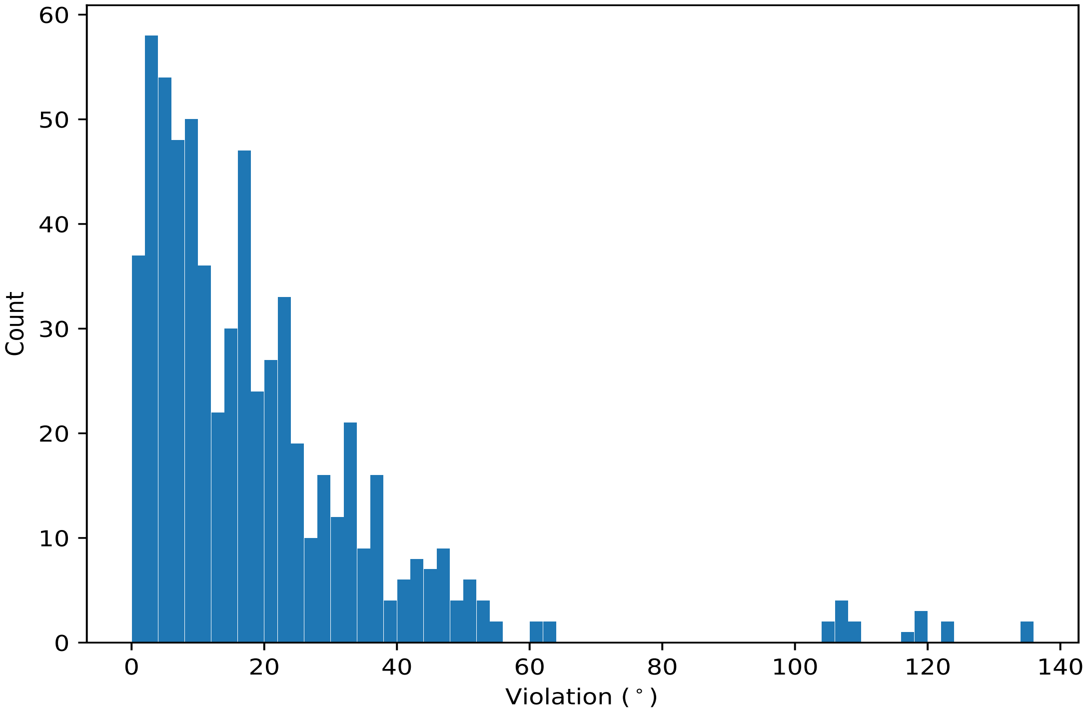
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,27)	1:A:93:VAL:C	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	5	3.72	2.1	4.0
(1,140)	1:B:93:VAL:C	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	5	3.7	2.18	4.0
(1,53)	1:A:110:GLU:C	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	4	14.97	5.6	16.35
(1,166)	1:B:110:GLU:C	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	4	14.97	5.6	16.35
(1,92)	1:A:134:THR:C	1:A:135:SER:N	1:A:135:SER:CA	1:A:135:SER:C	4	10.65	8.28	10.65
(1,205)	1:B:134:THR:C	1:B:135:SER:N	1:B:135:SER:CA	1:B:135:SER:C	4	10.63	8.25	10.65
(1,6)	1:A:77:VAL:N	1:A:77:VAL:CA	1:A:77:VAL:C	1:A:78:ASN:N	4	10.45	4.99	8.1
(1,119)	1:B:77:VAL:N	1:B:77:VAL:CA	1:B:77:VAL:C	1:B:78:ASN:N	4	10.38	5.04	8.0
(1,121)	1:B:78:ASN:N	1:B:78:ASN:CA	1:B:78:ASN:C	1:B:79:LEU:N	4	10.0	8.84	6.15
(1,8)	1:A:78:ASN:N	1:A:78:ASN:CA	1:A:78:ASN:C	1:A:79:LEU:N	4	9.98	8.8	6.15
(1,70)	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	1:A:121:LYS:N	4	8.1	4.42	6.9
(1,183)	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	1:B:121:LYS:N	4	8.1	4.51	6.95
(1,224)	1:B:145:VAL:N	1:B:145:VAL:CA	1:B:145:VAL:C	1:B:146:ASP:N	4	8.02	5.33	8.15
(1,72)	1:A:121:LYS:N	1:A:121:LYS:CA	1:A:121:LYS:C	1:A:122:TYR:N	4	5.82	0.94	6.3
(1,185)	1:B:121:LYS:N	1:B:121:LYS:CA	1:B:121:LYS:C	1:B:122:TYR:N	4	5.8	0.99	6.25
(1,55)	1:A:112:GLY:C	1:A:113:PHE:N	1:A:113:PHE:CA	1:A:113:PHE:C	4	4.6	3.67	3.3
(1,168)	1:B:112:GLY:C	1:B:113:PHE:N	1:B:113:PHE:CA	1:B:113:PHE:C	4	4.58	3.56	3.3
(1,67)	1:A:118:PHE:C	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	3	11.87	7.06	16.3
(1,180)	1:B:118:PHE:C	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	3	11.8	7.09	16.2
(1,111)	1:A:145:VAL:N	1:A:145:VAL:CA	1:A:145:VAL:C	1:A:146:ASP:N	3	10.4	4.12	11.5
(1,73)	1:A:121:LYS:C	1:A:122:TYR:N	1:A:122:TYR:CA	1:A:122:TYR:C	3	8.7	5.4	9.8
(1,186)	1:B:121:LYS:C	1:B:122:TYR:N	1:B:122:TYR:CA	1:B:122:TYR:C	3	8.63	5.31	9.6
(1,135)	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	1:B:92:LYS:N	3	4.5	3.37	2.8
(1,22)	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	1:A:92:LYS:N	3	4.47	3.4	2.8
(1,11)	1:A:79:LEU:C	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	3	3.93	1.43	4.4
(1,124)	1:B:79:LEU:C	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	3	3.93	1.43	4.4
(1,159)	1:B:105:GLU:N	1:B:105:GLU:CA	1:B:105:GLU:C	1:B:106:GLU:N	2	76.25	58.35	76.25
(1,46)	1:A:105:GLU:N	1:A:105:GLU:CA	1:A:105:GLU:C	1:A:106:GLU:N	2	76.2	58.2	76.2
(1,105)	1:A:142:VAL:N	1:A:142:VAL:CA	1:A:142:VAL:C	1:A:143:LEU:N	2	18.1	4.6	18.1
(1,218)	1:B:142:VAL:N	1:B:142:VAL:CA	1:B:142:VAL:C	1:B:143:LEU:N	2	18.1	4.7	18.1
(1,17)	1:A:88:GLU:C	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	2	15.3	5.0	15.3
(1,130)	1:B:88:GLU:C	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	2	15.25	4.85	15.25
(1,122)	1:B:78:ASN:C	1:B:79:LEU:N	1:B:79:LEU:CA	1:B:79:LEU:C	2	13.95	9.55	13.95
(1,9)	1:A:78:ASN:C	1:A:79:LEU:N	1:A:79:LEU:CA	1:A:79:LEU:C	2	13.9	9.6	13.9
(1,85)	1:A:130:PRO:N	1:A:130:PRO:CA	1:A:130:PRO:C	1:A:131:LEU:N	2	13.9	6.6	13.9
(1,198)	1:B:130:PRO:N	1:B:130:PRO:CA	1:B:130:PRO:C	1:B:131:LEU:N	2	13.8	6.6	13.8
(1,57)	1:A:113:PHE:C	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	2	10.55	7.95	10.55
(1,170)	1:B:113:PHE:C	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	2	10.5	8.0	10.5
(1,222)	1:B:144:THR:N	1:B:144:THR:CA	1:B:144:THR:C	1:B:145:VAL:N	2	8.8	5.6	8.8
(1,109)	1:A:144:THR:N	1:A:144:THR:CA	1:A:144:THR:C	1:A:145:VAL:N	2	8.65	5.65	8.65
(1,4)	1:A:76:SER:N	1:A:76:SER:CA	1:A:76:SER:C	1:A:77:VAL:N	2	8.2	4.3	8.2
(1,40)	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	1:A:103:LYS:N	2	8.2	1.0	8.2
(1,117)	1:B:76:SER:N	1:B:76:SER:CA	1:B:76:SER:C	1:B:77:VAL:N	2	8.2	4.3	8.2
(1,153)	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	1:B:103:LYS:N	2	8.2	0.9	8.2
(1,116)	1:B:75:PHE:C	1:B:76:SER:N	1:B:76:SER:CA	1:B:76:SER:C	2	2.85	1.05	2.85
(1,3)	1:A:75:PHE:C	1:A:76:SER:N	1:A:76:SER:CA	1:A:76:SER:C	2	2.8	1.0	2.8
(1,5)	1:A:76:SER:C	1:A:77:VAL:N	1:A:77:VAL:CA	1:A:77:VAL:C	2	2.1	0.3	2.1
(1,118)	1:B:76:SER:C	1:B:77:VAL:N	1:B:77:VAL:CA	1:B:77:VAL:C	2	2.1	0.4	2.1

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

10.5 All violated dihedral-angle restraints ⓘ

10.5.1 Histogram : Distribution of violations ⓘ

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



10.5.2 Table: All violated dihedral-angle restraints ⓘ

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,159)	1:B:105:GLU:N	1:B:105:GLU:CA	1:B:105:GLU:C	1:B:106:GLU:N	2	134.6
(1,46)	1:A:105:GLU:N	1:A:105:GLU:CA	1:A:105:GLU:C	1:A:106:GLU:N	2	134.4
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	8	122.5
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	8	122.2
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	9	119.6
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	9	119.5
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	3	118.0
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	3	117.9
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1	108.8
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1	108.8
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	5	107.5
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	6	107.5
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	5	107.4
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	6	107.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	7	105.0
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	7	104.9
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	3	63.6
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	3	63.5
(1,54)	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	1:A:112:GLY:N	1	60.5
(1,167)	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	1:B:112:GLY:N	1	60.4
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	1	55.0
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	1	55.0
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	5	53.6
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	5	53.4
(1,54)	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	1:A:112:GLY:N	2	53.1
(1,167)	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	1:B:112:GLY:N	2	53.0
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	5	50.9
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	5	50.9
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	8	50.4
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	8	50.2
(1,91)	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	1:A:135:SER:N	2	50.0
(1,204)	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	1:B:135:SER:N	2	50.0
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	9	49.7
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	9	49.6
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	3	48.9
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	3	48.8
(1,20)	1:A:90:LYS:N	1:A:90:LYS:CA	1:A:90:LYS:C	1:A:91:VAL:N	7	47.7
(1,133)	1:B:90:LYS:N	1:B:90:LYS:CA	1:B:90:LYS:C	1:B:91:VAL:N	7	47.7
(1,151)	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	1:B:102:GLY:N	5	47.2
(1,38)	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	1:A:102:GLY:N	3	47.1
(1,38)	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	1:A:102:GLY:N	5	47.1
(1,151)	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	1:B:102:GLY:N	3	47.1
(1,38)	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	1:A:102:GLY:N	8	47.0
(1,151)	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	1:B:102:GLY:N	8	47.0
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	6	46.0
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	6	45.9
(1,54)	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	1:A:112:GLY:N	4	45.6
(1,167)	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	1:B:112:GLY:N	4	45.5
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	7	45.2
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	7	45.2
(1,204)	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	1:B:135:SER:N	3	44.1
(1,54)	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	1:A:112:GLY:N	8	44.0
(1,91)	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	1:A:135:SER:N	3	43.9
(1,167)	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	1:B:112:GLY:N	8	43.8
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	1	43.2
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	1	43.1
(1,38)	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	1:A:102:GLY:N	6	43.0
(1,151)	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	1:B:102:GLY:N	6	43.0
(1,174)	1:B:115:SER:C	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	9	42.1
(1,61)	1:A:115:SER:C	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	9	42.0
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	1	41.7
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	1	41.5
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	9	41.0
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	9	40.9
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	9	40.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	9	40.9
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	4	39.6
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	4	39.4
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	1	39.1
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	1	39.0
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	3	37.6
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	7	37.6
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	3	37.6
(1,150)	1:B:100:VAL:C	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	1	37.6
(1,37)	1:A:100:VAL:C	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	1	37.5
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	7	37.5
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	6	36.8
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	6	36.8
(1,58)	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	1:A:115:SER:N	1	36.5
(1,171)	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	1:B:115:SER:N	1	36.5
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	8	36.2
(1,151)	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	1:B:102:GLY:N	1	36.2
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	9	36.1
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	9	36.1
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	8	36.0
(1,38)	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	1:A:102:GLY:N	1	36.0
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	4	35.4
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	4	35.3
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	4	34.9
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	3	34.7
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	4	34.7
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	3	34.5
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	4	34.4
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	4	34.3
(1,54)	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	1:A:112:GLY:N	7	34.0
(1,167)	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	1:B:112:GLY:N	7	33.8
(1,54)	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	1:A:112:GLY:N	5	33.6
(1,47)	1:A:105:GLU:C	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	4	33.6
(1,167)	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	1:B:112:GLY:N	5	33.6
(1,160)	1:B:105:GLU:C	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	4	33.6
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	8	33.4
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	8	33.3
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	5	33.0
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	5	32.8
(1,58)	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	1:A:115:SER:N	4	32.7
(1,171)	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	1:B:115:SER:N	4	32.6
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	1	32.5
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	5	32.5
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	3	32.4
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	1	32.4
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	5	32.4
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	3	32.3
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	3	32.2
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	3	32.2
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	3	32.1
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	3	32.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	7	31.9
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	7	31.7
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	7	31.7
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	5	31.7
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	5	31.6
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	7	31.6
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	2	30.9
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	2	30.9
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	9	30.3
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	9	30.3
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	4	30.1
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	4	30.1
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	7	29.6
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	7	29.6
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	2	29.0
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	2	29.0
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	2	29.0
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	2	28.9
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	4	28.8
(1,18)	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	1:A:90:LYS:N	1	28.8
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	4	28.8
(1,131)	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	1:B:90:LYS:N	1	28.8
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	7	28.5
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	7	28.3
(1,20)	1:A:90:LYS:N	1:A:90:LYS:CA	1:A:90:LYS:C	1:A:91:VAL:N	4	28.3
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	6	28.3
(1,133)	1:B:90:LYS:N	1:B:90:LYS:CA	1:B:90:LYS:C	1:B:91:VAL:N	4	28.3
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	6	28.2
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	8	27.8
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	8	27.8
(1,24)	1:A:92:LYS:N	1:A:92:LYS:CA	1:A:92:LYS:C	1:A:93:VAL:N	9	27.3
(1,137)	1:B:92:LYS:N	1:B:92:LYS:CA	1:B:92:LYS:C	1:B:93:VAL:N	9	27.3
(1,151)	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	1:B:102:GLY:N	9	27.1
(1,38)	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	1:A:102:GLY:N	9	27.0
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	5	26.3
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	5	26.2
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	6	26.2
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	6	26.1
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	9	25.9
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	9	25.8
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	4	25.7
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	4	25.6
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	4	25.3
(1,24)	1:A:92:LYS:N	1:A:92:LYS:CA	1:A:92:LYS:C	1:A:93:VAL:N	7	25.3
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	4	25.3
(1,137)	1:B:92:LYS:N	1:B:92:LYS:CA	1:B:92:LYS:C	1:B:93:VAL:N	7	25.3
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	1	25.2
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	8	25.1
(1,121)	1:B:78:ASN:N	1:B:78:ASN:CA	1:B:78:ASN:C	1:B:79:LEU:N	4	25.1
(1,8)	1:A:78:ASN:N	1:A:78:ASN:CA	1:A:78:ASN:C	1:A:79:LEU:N	4	25.0
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	8	25.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	1	25.0
(1,113)	1:A:146:ASP:N	1:A:146:ASP:CA	1:A:146:ASP:C	1:A:147:GLY:N	6	25.0
(1,226)	1:B:146:ASP:N	1:B:146:ASP:CA	1:B:146:ASP:C	1:B:147:GLY:N	6	24.9
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	5	24.7
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	5	24.6
(1,164)	1:B:107:ARG:C	1:B:108:GLN:N	1:B:108:GLN:CA	1:B:108:GLN:C	6	24.0
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	7	23.9
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	7	23.9
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	9	23.8
(1,51)	1:A:107:ARG:C	1:A:108:GLN:N	1:A:108:GLN:CA	1:A:108:GLN:C	6	23.8
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	5	23.8
(1,20)	1:A:90:LYS:N	1:A:90:LYS:CA	1:A:90:LYS:C	1:A:91:VAL:N	3	23.8
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	9	23.8
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	5	23.7
(1,133)	1:B:90:LYS:N	1:B:90:LYS:CA	1:B:90:LYS:C	1:B:91:VAL:N	3	23.7
(1,9)	1:A:78:ASN:C	1:A:79:LEU:N	1:A:79:LEU:CA	1:A:79:LEU:C	4	23.5
(1,122)	1:B:78:ASN:C	1:B:79:LEU:N	1:B:79:LEU:CA	1:B:79:LEU:C	4	23.5
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	1	23.4
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	4	23.4
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	4	23.4
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	6	23.3
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	1	23.3
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	6	23.2
(1,218)	1:B:142:VAL:N	1:B:142:VAL:CA	1:B:142:VAL:C	1:B:143:LEU:N	4	22.8
(1,105)	1:A:142:VAL:N	1:A:142:VAL:CA	1:A:142:VAL:C	1:A:143:LEU:N	4	22.7
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	5	22.6
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	5	22.5
(1,24)	1:A:92:LYS:N	1:A:92:LYS:CA	1:A:92:LYS:C	1:A:93:VAL:N	5	22.4
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	5	22.3
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	6	22.3
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	5	22.3
(1,137)	1:B:92:LYS:N	1:B:92:LYS:CA	1:B:92:LYS:C	1:B:93:VAL:N	5	22.3
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	6	22.2
(1,24)	1:A:92:LYS:N	1:A:92:LYS:CA	1:A:92:LYS:C	1:A:93:VAL:N	6	22.2
(1,137)	1:B:92:LYS:N	1:B:92:LYS:CA	1:B:92:LYS:C	1:B:93:VAL:N	6	22.2
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	7	22.1
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	8	22.1
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	7	22.1
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	8	22.0
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	6	21.8
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	8	21.6
(1,18)	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	1:A:90:LYS:N	3	21.6
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	2	21.6
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	2	21.5
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	8	21.5
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	6	21.5
(1,131)	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	1:B:90:LYS:N	3	21.5
(1,226)	1:B:146:ASP:N	1:B:146:ASP:CA	1:B:146:ASP:C	1:B:147:GLY:N	1	21.4
(1,53)	1:A:110:GLU:C	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	1	21.2
(1,166)	1:B:110:GLU:C	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	1	21.2
(1,113)	1:A:146:ASP:N	1:A:146:ASP:CA	1:A:146:ASP:C	1:A:147:GLY:N	1	21.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	7	21.1
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	8	21.1
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	7	21.1
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	8	21.1
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	3	20.9
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	3	20.8
(1,85)	1:A:130:PRO:N	1:A:130:PRO:CA	1:A:130:PRO:C	1:A:131:LEU:N	2	20.5
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	8	20.4
(1,198)	1:B:130:PRO:N	1:B:130:PRO:CA	1:B:130:PRO:C	1:B:131:LEU:N	2	20.4
(1,164)	1:B:107:ARG:C	1:B:108:GLN:N	1:B:108:GLN:CA	1:B:108:GLN:C	2	20.4
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	8	20.4
(1,51)	1:A:107:ARG:C	1:A:108:GLN:N	1:A:108:GLN:CA	1:A:108:GLN:C	2	20.3
(1,17)	1:A:88:GLU:C	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	7	20.3
(1,150)	1:B:100:VAL:C	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	9	20.1
(1,130)	1:B:88:GLU:C	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	7	20.1
(1,37)	1:A:100:VAL:C	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	9	19.8
(1,92)	1:A:134:THR:C	1:A:135:SER:N	1:A:135:SER:CA	1:A:135:SER:C	2	19.6
(1,164)	1:B:107:ARG:C	1:B:108:GLN:N	1:B:108:GLN:CA	1:B:108:GLN:C	4	19.6
(1,56)	1:A:113:PHE:N	1:A:113:PHE:CA	1:A:113:PHE:C	1:A:114:ILE:N	3	19.5
(1,205)	1:B:134:THR:C	1:B:135:SER:N	1:B:135:SER:CA	1:B:135:SER:C	2	19.5
(1,169)	1:B:113:PHE:N	1:B:113:PHE:CA	1:B:113:PHE:C	1:B:114:ILE:N	3	19.5
(1,51)	1:A:107:ARG:C	1:A:108:GLN:N	1:A:108:GLN:CA	1:A:108:GLN:C	4	19.4
(1,134)	1:B:90:LYS:C	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	4	19.3
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	3	19.1
(1,21)	1:A:90:LYS:C	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	4	19.1
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	3	19.1
(1,6)	1:A:77:VAL:N	1:A:77:VAL:CA	1:A:77:VAL:C	1:A:78:ASN:N	5	19.0
(1,119)	1:B:77:VAL:N	1:B:77:VAL:CA	1:B:77:VAL:C	1:B:78:ASN:N	5	19.0
(1,41)	1:A:102:GLY:C	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	7	18.9
(1,154)	1:B:102:GLY:C	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	7	18.9
(1,20)	1:A:90:LYS:N	1:A:90:LYS:CA	1:A:90:LYS:C	1:A:91:VAL:N	1	18.6
(1,133)	1:B:90:LYS:N	1:B:90:LYS:CA	1:B:90:LYS:C	1:B:91:VAL:N	1	18.6
(1,57)	1:A:113:PHE:C	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	3	18.5
(1,170)	1:B:113:PHE:C	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	3	18.5
(1,92)	1:A:134:THR:C	1:A:135:SER:N	1:A:135:SER:CA	1:A:135:SER:C	3	18.2
(1,21)	1:A:90:LYS:C	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	1	18.2
(1,205)	1:B:134:THR:C	1:B:135:SER:N	1:B:135:SER:CA	1:B:135:SER:C	3	18.2
(1,134)	1:B:90:LYS:C	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	1	18.1
(1,46)	1:A:105:GLU:N	1:A:105:GLU:CA	1:A:105:GLU:C	1:A:106:GLU:N	4	18.0
(1,35)	1:A:99:GLU:C	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	5	17.9
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	6	17.9
(1,159)	1:B:105:GLU:N	1:B:105:GLU:CA	1:B:105:GLU:C	1:B:106:GLU:N	4	17.9
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	3	17.8
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	9	17.8
(1,148)	1:B:99:GLU:C	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	5	17.8
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	6	17.8
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	3	17.7
(1,137)	1:B:92:LYS:N	1:B:92:LYS:CA	1:B:92:LYS:C	1:B:93:VAL:N	3	17.7
(1,24)	1:A:92:LYS:N	1:A:92:LYS:CA	1:A:92:LYS:C	1:A:93:VAL:N	3	17.6
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	9	17.5
(1,67)	1:A:118:PHE:C	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	8	17.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,53)	1:A:110:GLU:C	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	5	17.4
(1,180)	1:B:118:PHE:C	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	8	17.4
(1,166)	1:B:110:GLU:C	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	5	17.4
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	6	17.3
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	6	17.3
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	1	17.2
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	6	17.2
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	1	17.2
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	6	17.1
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	9	17.0
(1,226)	1:B:146:ASP:N	1:B:146:ASP:CA	1:B:146:ASP:C	1:B:147:GLY:N	9	17.0
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	4	17.0
(1,181)	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	1:B:120:ARG:N	9	17.0
(1,113)	1:A:146:ASP:N	1:A:146:ASP:CA	1:A:146:ASP:C	1:A:147:GLY:N	9	17.0
(1,68)	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	1:A:120:ARG:N	4	16.9
(1,150)	1:B:100:VAL:C	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	4	16.9
(1,37)	1:A:100:VAL:C	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	4	16.7
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	1	16.7
(1,28)	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	1:A:95:GLY:N	6	16.7
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	1	16.7
(1,141)	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	1:B:95:GLY:N	6	16.7
(1,48)	1:A:106:GLU:N	1:A:106:GLU:CA	1:A:106:GLU:C	1:A:107:ARG:N	2	16.6
(1,91)	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	1:A:135:SER:N	4	16.5
(1,161)	1:B:106:GLU:N	1:B:106:GLU:CA	1:B:106:GLU:C	1:B:107:ARG:N	2	16.5
(1,154)	1:B:102:GLY:C	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	8	16.5
(1,41)	1:A:102:GLY:C	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	8	16.4
(1,204)	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	1:B:135:SER:N	4	16.4
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	7	16.4
(1,67)	1:A:118:PHE:C	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	7	16.3
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	7	16.3
(1,180)	1:B:118:PHE:C	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	7	16.2
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	3	16.0
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	5	16.0
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	3	16.0
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	5	16.0
(1,29)	1:A:96:ASP:C	1:A:97:VAL:N	1:A:97:VAL:CA	1:A:97:VAL:C	6	15.9
(1,142)	1:B:96:ASP:C	1:B:97:VAL:N	1:B:97:VAL:CA	1:B:97:VAL:C	6	15.9
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	2	15.5
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	2	15.5
(1,58)	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	1:A:115:SER:N	5	15.4
(1,183)	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	1:B:121:LYS:N	1	15.4
(1,171)	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	1:B:115:SER:N	5	15.4
(1,70)	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	1:A:121:LYS:N	1	15.3
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	1	15.3
(1,53)	1:A:110:GLU:C	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	7	15.3
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	1	15.3
(1,166)	1:B:110:GLU:C	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	7	15.3
(1,66)	1:A:118:PHE:N	1:A:118:PHE:CA	1:A:118:PHE:C	1:A:119:HIS:N	3	15.2
(1,179)	1:B:118:PHE:N	1:B:118:PHE:CA	1:B:118:PHE:C	1:B:119:HIS:N	3	15.1
(1,111)	1:A:145:VAL:N	1:A:145:VAL:CA	1:A:145:VAL:C	1:A:146:ASP:N	6	14.8
(1,73)	1:A:121:LYS:C	1:A:122:TYR:N	1:A:122:TYR:CA	1:A:122:TYR:C	9	14.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,224)	1:B:145:VAL:N	1:B:145:VAL:CA	1:B:145:VAL:C	1:B:146:ASP:N	6	14.7
(1,186)	1:B:121:LYS:C	1:B:122:TYR:N	1:B:122:TYR:CA	1:B:122:TYR:C	9	14.6
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	2	14.5
(1,222)	1:B:144:THR:N	1:B:144:THR:CA	1:B:144:THR:C	1:B:145:VAL:N	2	14.4
(1,66)	1:A:118:PHE:N	1:A:118:PHE:CA	1:A:118:PHE:C	1:A:119:HIS:N	9	14.3
(1,37)	1:A:100:VAL:C	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	2	14.3
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	2	14.3
(1,179)	1:B:118:PHE:N	1:B:118:PHE:CA	1:B:118:PHE:C	1:B:119:HIS:N	9	14.3
(1,109)	1:A:144:THR:N	1:A:144:THR:CA	1:A:144:THR:C	1:A:145:VAL:N	2	14.3
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	5	14.2
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	5	14.2
(1,150)	1:B:100:VAL:C	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	2	14.2
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	7	14.0
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	7	14.0
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	7	13.5
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	7	13.5
(1,105)	1:A:142:VAL:N	1:A:142:VAL:CA	1:A:142:VAL:C	1:A:143:LEU:N	5	13.5
(1,218)	1:B:142:VAL:N	1:B:142:VAL:CA	1:B:142:VAL:C	1:B:143:LEU:N	5	13.4
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	8	13.3
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	8	13.3
(1,134)	1:B:90:LYS:C	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	7	13.1
(1,21)	1:A:90:LYS:C	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	7	13.0
(1,18)	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	1:A:90:LYS:N	8	12.8
(1,131)	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	1:B:90:LYS:N	8	12.7
(1,4)	1:A:76:SER:N	1:A:76:SER:CA	1:A:76:SER:C	1:A:77:VAL:N	9	12.5
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	8	12.5
(1,117)	1:B:76:SER:N	1:B:76:SER:CA	1:B:76:SER:C	1:B:77:VAL:N	9	12.5
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	8	12.4
(1,41)	1:A:102:GLY:C	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	2	12.3
(1,33)	1:A:98:ILE:C	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	2	12.3
(1,146)	1:B:98:ILE:C	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	2	12.3
(1,18)	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	1:A:90:LYS:N	6	12.2
(1,154)	1:B:102:GLY:C	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	2	12.2
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	6	12.2
(1,131)	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	1:B:90:LYS:N	6	12.2
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	6	12.0
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	1	11.9
(1,179)	1:B:118:PHE:N	1:B:118:PHE:CA	1:B:118:PHE:C	1:B:119:HIS:N	4	11.9
(1,66)	1:A:118:PHE:N	1:A:118:PHE:CA	1:A:118:PHE:C	1:A:119:HIS:N	4	11.8
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	1	11.8
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	1	11.8
(1,133)	1:B:90:LYS:N	1:B:90:LYS:CA	1:B:90:LYS:C	1:B:91:VAL:N	8	11.8
(1,20)	1:A:90:LYS:N	1:A:90:LYS:CA	1:A:90:LYS:C	1:A:91:VAL:N	8	11.7
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	1	11.6
(1,111)	1:A:145:VAL:N	1:A:145:VAL:CA	1:A:145:VAL:C	1:A:146:ASP:N	5	11.5
(1,224)	1:B:145:VAL:N	1:B:145:VAL:CA	1:B:145:VAL:C	1:B:146:ASP:N	5	11.4
(1,37)	1:A:100:VAL:C	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	5	10.9
(1,37)	1:A:100:VAL:C	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	7	10.9
(1,150)	1:B:100:VAL:C	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	5	10.9
(1,150)	1:B:100:VAL:C	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	7	10.9
(1,55)	1:A:112:GLY:C	1:A:113:PHE:N	1:A:113:PHE:CA	1:A:113:PHE:C	5	10.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,35)	1:A:99:GLU:C	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	7	10.7
(1,154)	1:B:102:GLY:C	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	1	10.7
(1,91)	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	1:A:135:SER:N	6	10.6
(1,41)	1:A:102:GLY:C	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	1	10.6
(1,204)	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	1:B:135:SER:N	6	10.6
(1,148)	1:B:99:GLU:C	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	7	10.6
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	3	10.5
(1,168)	1:B:112:GLY:C	1:B:113:PHE:N	1:B:113:PHE:CA	1:B:113:PHE:C	5	10.5
(1,12)	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	1:A:81:VAL:N	8	10.5
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	5	10.4
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	3	10.4
(1,130)	1:B:88:GLU:C	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	4	10.4
(1,226)	1:B:146:ASP:N	1:B:146:ASP:CA	1:B:146:ASP:C	1:B:147:GLY:N	8	10.3
(1,189)	1:B:123:ARG:N	1:B:123:ARG:CA	1:B:123:ARG:C	1:B:124:ILE:N	1	10.3
(1,17)	1:A:88:GLU:C	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	4	10.3
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	5	10.3
(1,125)	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	1:B:81:VAL:N	8	10.3
(1,113)	1:A:146:ASP:N	1:A:146:ASP:CA	1:A:146:ASP:C	1:A:147:GLY:N	8	10.3
(1,76)	1:A:123:ARG:N	1:A:123:ARG:CA	1:A:123:ARG:C	1:A:124:ILE:N	1	10.2
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	4	10.1
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	4	10.1
(1,73)	1:A:121:LYS:C	1:A:122:TYR:N	1:A:122:TYR:CA	1:A:122:TYR:C	5	9.8
(1,35)	1:A:99:GLU:C	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	4	9.6
(1,21)	1:A:90:LYS:C	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	5	9.6
(1,186)	1:B:121:LYS:C	1:B:122:TYR:N	1:B:122:TYR:CA	1:B:122:TYR:C	5	9.6
(1,148)	1:B:99:GLU:C	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	4	9.6
(1,134)	1:B:90:LYS:C	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	5	9.6
(1,24)	1:A:92:LYS:N	1:A:92:LYS:CA	1:A:92:LYS:C	1:A:93:VAL:N	4	9.3
(1,66)	1:A:118:PHE:N	1:A:118:PHE:CA	1:A:118:PHE:C	1:A:119:HIS:N	8	9.2
(1,40)	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	1:A:103:LYS:N	2	9.2
(1,22)	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	1:A:92:LYS:N	1	9.2
(1,137)	1:B:92:LYS:N	1:B:92:LYS:CA	1:B:92:LYS:C	1:B:93:VAL:N	4	9.2
(1,135)	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	1:B:92:LYS:N	1	9.2
(1,179)	1:B:118:PHE:N	1:B:118:PHE:CA	1:B:118:PHE:C	1:B:119:HIS:N	8	9.1
(1,154)	1:B:102:GLY:C	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	6	9.1
(1,153)	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	1:B:103:LYS:N	2	9.1
(1,41)	1:A:102:GLY:C	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	6	9.0
(1,60)	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	1:A:116:ARG:N	6	8.9
(1,37)	1:A:100:VAL:C	1:A:101:HIS:N	1:A:101:HIS:CA	1:A:101:HIS:C	6	8.8
(1,36)	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1:A:101:HIS:N	3	8.8
(1,173)	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	1:B:116:ARG:N	6	8.8
(1,150)	1:B:100:VAL:C	1:B:101:HIS:N	1:B:101:HIS:CA	1:B:101:HIS:C	6	8.8
(1,149)	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1:B:101:HIS:N	3	8.8
(1,6)	1:A:77:VAL:N	1:A:77:VAL:CA	1:A:77:VAL:C	1:A:78:ASN:N	6	8.7
(1,41)	1:A:102:GLY:C	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	9	8.7
(1,204)	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	1:B:135:SER:N	8	8.7
(1,13)	1:A:83:HIS:C	1:A:84:PHE:N	1:A:84:PHE:CA	1:A:84:PHE:C	5	8.7
(1,126)	1:B:83:HIS:C	1:B:84:PHE:N	1:B:84:PHE:CA	1:B:84:PHE:C	5	8.7
(1,91)	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	1:A:135:SER:N	8	8.6
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	2	8.6
(1,154)	1:B:102:GLY:C	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	9	8.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,119)	1:B:77:VAL:N	1:B:77:VAL:CA	1:B:77:VAL:C	1:B:78:ASN:N	6	8.6
(1,18)	1:A:89:LEU:N	1:A:89:LEU:CA	1:A:89:LEU:C	1:A:90:LYS:N	2	8.5
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	2	8.5
(1,131)	1:B:89:LEU:N	1:B:89:LEU:CA	1:B:89:LEU:C	1:B:90:LYS:N	2	8.5
(1,51)	1:A:107:ARG:C	1:A:108:GLN:N	1:A:108:GLN:CA	1:A:108:GLN:C	5	8.4
(1,35)	1:A:99:GLU:C	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	1	8.4
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	3	8.4
(1,148)	1:B:99:GLU:C	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	1	8.4
(1,58)	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	1:A:115:SER:N	9	8.3
(1,32)	1:A:98:ILE:N	1:A:98:ILE:CA	1:A:98:ILE:C	1:A:99:GLU:N	2	8.3
(1,171)	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	1:B:115:SER:N	9	8.3
(1,164)	1:B:107:ARG:C	1:B:108:GLN:N	1:B:108:GLN:CA	1:B:108:GLN:C	5	8.3
(1,148)	1:B:99:GLU:C	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	9	8.3
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	3	8.2
(1,35)	1:A:99:GLU:C	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	9	8.2
(1,145)	1:B:98:ILE:N	1:B:98:ILE:CA	1:B:98:ILE:C	1:B:99:GLU:N	2	8.2
(1,61)	1:A:115:SER:C	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	5	8.1
(1,174)	1:B:115:SER:C	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	5	8.1
(1,125)	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	1:B:81:VAL:N	3	8.0
(1,12)	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	1:A:81:VAL:N	3	8.0
(1,26)	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1:A:94:LEU:N	8	7.9
(1,139)	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1:B:94:LEU:N	8	7.9
(1,25)	1:A:92:LYS:C	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	9	7.8
(1,138)	1:B:92:LYS:C	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	9	7.8
(1,25)	1:A:92:LYS:C	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	1	7.7
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	8	7.6
(1,138)	1:B:92:LYS:C	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	1	7.6
(1,6)	1:A:77:VAL:N	1:A:77:VAL:CA	1:A:77:VAL:C	1:A:78:ASN:N	4	7.5
(1,70)	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	1:A:121:LYS:N	6	7.4
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	8	7.4
(1,183)	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	1:B:121:LYS:N	6	7.4
(1,119)	1:B:77:VAL:N	1:B:77:VAL:CA	1:B:77:VAL:C	1:B:78:ASN:N	4	7.4
(1,85)	1:A:130:PRO:N	1:A:130:PRO:CA	1:A:130:PRO:C	1:A:131:LEU:N	3	7.3
(1,66)	1:A:118:PHE:N	1:A:118:PHE:CA	1:A:118:PHE:C	1:A:119:HIS:N	5	7.3
(1,179)	1:B:118:PHE:N	1:B:118:PHE:CA	1:B:118:PHE:C	1:B:119:HIS:N	5	7.3
(1,153)	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	1:B:103:LYS:N	7	7.3
(1,148)	1:B:99:GLU:C	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	6	7.3
(1,40)	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	1:A:103:LYS:N	7	7.2
(1,35)	1:A:99:GLU:C	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	6	7.2
(1,198)	1:B:130:PRO:N	1:B:130:PRO:CA	1:B:130:PRO:C	1:B:131:LEU:N	3	7.2
(1,140)	1:B:93:VAL:C	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	9	7.2
(1,27)	1:A:93:VAL:C	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	9	7.1
(1,114)	1:B:74:ARG:C	1:B:75:PHE:N	1:B:75:PHE:CA	1:B:75:PHE:C	9	7.1
(1,1)	1:A:74:ARG:C	1:A:75:PHE:N	1:A:75:PHE:CA	1:A:75:PHE:C	9	7.1
(1,8)	1:A:78:ASN:N	1:A:78:ASN:CA	1:A:78:ASN:C	1:A:79:LEU:N	2	6.6
(1,61)	1:A:115:SER:C	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	2	6.6
(1,6)	1:A:77:VAL:N	1:A:77:VAL:CA	1:A:77:VAL:C	1:A:78:ASN:N	8	6.6
(1,185)	1:B:121:LYS:N	1:B:121:LYS:CA	1:B:121:LYS:C	1:B:122:TYR:N	9	6.6
(1,174)	1:B:115:SER:C	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	2	6.6
(1,121)	1:B:78:ASN:N	1:B:78:ASN:CA	1:B:78:ASN:C	1:B:79:LEU:N	2	6.6
(1,72)	1:A:121:LYS:N	1:A:121:LYS:CA	1:A:121:LYS:C	1:A:122:TYR:N	9	6.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,51)	1:A:107:ARG:C	1:A:108:GLN:N	1:A:108:GLN:CA	1:A:108:GLN:C	8	6.5
(1,183)	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	1:B:121:LYS:N	4	6.5
(1,119)	1:B:77:VAL:N	1:B:77:VAL:CA	1:B:77:VAL:C	1:B:78:ASN:N	8	6.5
(1,91)	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	1:A:135:SER:N	1	6.4
(1,72)	1:A:121:LYS:N	1:A:121:LYS:CA	1:A:121:LYS:C	1:A:122:TYR:N	5	6.4
(1,70)	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	1:A:121:LYS:N	4	6.4
(1,21)	1:A:90:LYS:C	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	9	6.4
(1,204)	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	1:B:135:SER:N	1	6.4
(1,164)	1:B:107:ARG:C	1:B:108:GLN:N	1:B:108:GLN:CA	1:B:108:GLN:C	8	6.4
(1,185)	1:B:121:LYS:N	1:B:121:LYS:CA	1:B:121:LYS:C	1:B:122:TYR:N	3	6.3
(1,134)	1:B:90:LYS:C	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	9	6.3
(1,72)	1:A:121:LYS:N	1:A:121:LYS:CA	1:A:121:LYS:C	1:A:122:TYR:N	3	6.2
(1,185)	1:B:121:LYS:N	1:B:121:LYS:CA	1:B:121:LYS:C	1:B:122:TYR:N	5	6.2
(1,53)	1:A:110:GLU:C	1:A:111:HIS:N	1:A:111:HIS:CA	1:A:111:HIS:C	2	6.0
(1,42)	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	1:A:104:HIS:N	5	6.0
(1,166)	1:B:110:GLU:C	1:B:111:HIS:N	1:B:111:HIS:CA	1:B:111:HIS:C	2	6.0
(1,155)	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	1:B:104:HIS:N	5	6.0
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	4	5.9
(1,41)	1:A:102:GLY:C	1:A:103:LYS:N	1:A:103:LYS:CA	1:A:103:LYS:C	5	5.9
(1,21)	1:A:90:LYS:C	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	3	5.9
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	4	5.9
(1,134)	1:B:90:LYS:C	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	3	5.9
(1,163)	1:B:107:ARG:N	1:B:107:ARG:CA	1:B:107:ARG:C	1:B:108:GLN:N	9	5.8
(1,154)	1:B:102:GLY:C	1:B:103:LYS:N	1:B:103:LYS:CA	1:B:103:LYS:C	5	5.8
(1,138)	1:B:92:LYS:C	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	3	5.8
(1,8)	1:A:78:ASN:N	1:A:78:ASN:CA	1:A:78:ASN:C	1:A:79:LEU:N	8	5.7
(1,50)	1:A:107:ARG:N	1:A:107:ARG:CA	1:A:107:ARG:C	1:A:108:GLN:N	9	5.7
(1,25)	1:A:92:LYS:C	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	3	5.7
(1,121)	1:B:78:ASN:N	1:B:78:ASN:CA	1:B:78:ASN:C	1:B:79:LEU:N	8	5.7
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	4	5.6
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	4	5.5
(1,174)	1:B:115:SER:C	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	3	5.5
(1,113)	1:A:146:ASP:N	1:A:146:ASP:CA	1:A:146:ASP:C	1:A:147:GLY:N	7	5.5
(1,61)	1:A:115:SER:C	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	3	5.4
(1,226)	1:B:146:ASP:N	1:B:146:ASP:CA	1:B:146:ASP:C	1:B:147:GLY:N	7	5.4
(1,124)	1:B:79:LEU:C	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	3	5.4
(1,11)	1:A:79:LEU:C	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	3	5.4
(1,51)	1:A:107:ARG:C	1:A:108:GLN:N	1:A:108:GLN:CA	1:A:108:GLN:C	7	5.3
(1,164)	1:B:107:ARG:C	1:B:108:GLN:N	1:B:108:GLN:CA	1:B:108:GLN:C	7	5.3
(1,59)	1:A:114:ILE:C	1:A:115:SER:N	1:A:115:SER:CA	1:A:115:SER:C	4	5.1
(1,35)	1:A:99:GLU:C	1:A:100:VAL:N	1:A:100:VAL:CA	1:A:100:VAL:C	3	5.1
(1,172)	1:B:114:ILE:C	1:B:115:SER:N	1:B:115:SER:CA	1:B:115:SER:C	4	5.1
(1,148)	1:B:99:GLU:C	1:B:100:VAL:N	1:B:100:VAL:CA	1:B:100:VAL:C	3	5.1
(1,224)	1:B:145:VAL:N	1:B:145:VAL:CA	1:B:145:VAL:C	1:B:146:ASP:N	1	4.9
(1,111)	1:A:145:VAL:N	1:A:145:VAL:CA	1:A:145:VAL:C	1:A:146:ASP:N	1	4.9
(1,91)	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	1:A:135:SER:N	5	4.8
(1,20)	1:A:90:LYS:N	1:A:90:LYS:CA	1:A:90:LYS:C	1:A:91:VAL:N	5	4.8
(1,204)	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	1:B:135:SER:N	5	4.7
(1,199)	1:B:131:LEU:C	1:B:132:THR:N	1:B:132:THR:CA	1:B:132:THR:C	8	4.7
(1,133)	1:B:90:LYS:N	1:B:90:LYS:CA	1:B:90:LYS:C	1:B:91:VAL:N	5	4.7
(1,99)	1:A:138:SER:N	1:A:138:SER:CA	1:A:138:SER:C	1:A:139:SER:N	4	4.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,86)	1:A:131:LEU:C	1:A:132:THR:N	1:A:132:THR:CA	1:A:132:THR:C	8	4.6
(1,19)	1:A:89:LEU:C	1:A:90:LYS:N	1:A:90:LYS:CA	1:A:90:LYS:C	9	4.6
(1,132)	1:B:89:LEU:C	1:B:90:LYS:N	1:B:90:LYS:CA	1:B:90:LYS:C	9	4.6
(1,51)	1:A:107:ARG:C	1:A:108:GLN:N	1:A:108:GLN:CA	1:A:108:GLN:C	1	4.5
(1,27)	1:A:93:VAL:C	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	4	4.5
(1,212)	1:B:138:SER:N	1:B:138:SER:CA	1:B:138:SER:C	1:B:139:SER:N	4	4.5
(1,140)	1:B:93:VAL:C	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	4	4.5
(1,164)	1:B:107:ARG:C	1:B:108:GLN:N	1:B:108:GLN:CA	1:B:108:GLN:C	1	4.4
(1,124)	1:B:79:LEU:C	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	2	4.4
(1,122)	1:B:78:ASN:C	1:B:79:LEU:N	1:B:79:LEU:CA	1:B:79:LEU:C	8	4.4
(1,11)	1:A:79:LEU:C	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	2	4.4
(1,9)	1:A:78:ASN:C	1:A:79:LEU:N	1:A:79:LEU:CA	1:A:79:LEU:C	8	4.3
(1,72)	1:A:121:LYS:N	1:A:121:LYS:CA	1:A:121:LYS:C	1:A:122:TYR:N	4	4.2
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	9	4.2
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	9	4.2
(1,185)	1:B:121:LYS:N	1:B:121:LYS:CA	1:B:121:LYS:C	1:B:122:TYR:N	4	4.1
(1,55)	1:A:112:GLY:C	1:A:113:PHE:N	1:A:113:PHE:CA	1:A:113:PHE:C	6	4.0
(1,27)	1:A:93:VAL:C	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	7	4.0
(1,168)	1:B:112:GLY:C	1:B:113:PHE:N	1:B:113:PHE:CA	1:B:113:PHE:C	6	4.0
(1,140)	1:B:93:VAL:C	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	7	4.0
(1,4)	1:A:76:SER:N	1:A:76:SER:CA	1:A:76:SER:C	1:A:77:VAL:N	6	3.9
(1,117)	1:B:76:SER:N	1:B:76:SER:CA	1:B:76:SER:C	1:B:77:VAL:N	6	3.9
(1,116)	1:B:75:PHE:C	1:B:76:SER:N	1:B:76:SER:CA	1:B:76:SER:C	3	3.9
(1,66)	1:A:118:PHE:N	1:A:118:PHE:CA	1:A:118:PHE:C	1:A:119:HIS:N	1	3.8
(1,3)	1:A:75:PHE:C	1:A:76:SER:N	1:A:76:SER:CA	1:A:76:SER:C	3	3.8
(1,179)	1:B:118:PHE:N	1:B:118:PHE:CA	1:B:118:PHE:C	1:B:119:HIS:N	1	3.8
(1,21)	1:A:90:LYS:C	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	6	3.7
(1,147)	1:B:99:GLU:N	1:B:99:GLU:CA	1:B:99:GLU:C	1:B:100:VAL:N	9	3.6
(1,134)	1:B:90:LYS:C	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	6	3.6
(1,34)	1:A:99:GLU:N	1:A:99:GLU:CA	1:A:99:GLU:C	1:A:100:VAL:N	9	3.5
(1,58)	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	1:A:115:SER:N	6	3.4
(1,25)	1:A:92:LYS:C	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	6	3.4
(1,24)	1:A:92:LYS:N	1:A:92:LYS:CA	1:A:92:LYS:C	1:A:93:VAL:N	1	3.4
(1,152)	1:B:101:HIS:C	1:B:102:GLY:N	1:B:102:GLY:CA	1:B:102:GLY:C	9	3.4
(1,137)	1:B:92:LYS:N	1:B:92:LYS:CA	1:B:92:LYS:C	1:B:93:VAL:N	1	3.4
(1,70)	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	1:A:121:LYS:N	3	3.3
(1,39)	1:A:101:HIS:C	1:A:102:GLY:N	1:A:102:GLY:CA	1:A:102:GLY:C	9	3.3
(1,171)	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	1:B:115:SER:N	6	3.3
(1,138)	1:B:92:LYS:C	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	6	3.3
(1,222)	1:B:144:THR:N	1:B:144:THR:CA	1:B:144:THR:C	1:B:145:VAL:N	6	3.2
(1,125)	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	1:B:81:VAL:N	7	3.2
(1,12)	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	1:A:81:VAL:N	7	3.2
(1,92)	1:A:134:THR:C	1:A:135:SER:N	1:A:135:SER:CA	1:A:135:SER:C	5	3.1
(1,205)	1:B:134:THR:C	1:B:135:SER:N	1:B:135:SER:CA	1:B:135:SER:C	5	3.1
(1,183)	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	1:B:121:LYS:N	3	3.1
(1,25)	1:A:92:LYS:C	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	4	3.0
(1,171)	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	1:B:115:SER:N	8	3.0
(1,109)	1:A:144:THR:N	1:A:144:THR:CA	1:A:144:THR:C	1:A:145:VAL:N	6	3.0
(1,65)	1:A:117:GLU:C	1:A:118:PHE:N	1:A:118:PHE:CA	1:A:118:PHE:C	9	2.9
(1,58)	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	1:A:115:SER:N	8	2.9
(1,138)	1:B:92:LYS:C	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	4	2.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,22)	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	1:A:92:LYS:N	3	2.8
(1,178)	1:B:117:GLU:C	1:B:118:PHE:N	1:B:118:PHE:CA	1:B:118:PHE:C	9	2.8
(1,174)	1:B:115:SER:C	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1	2.8
(1,135)	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	1:B:92:LYS:N	3	2.8
(1,61)	1:A:115:SER:C	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1	2.7
(1,58)	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	1:A:115:SER:N	3	2.7
(1,171)	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	1:B:115:SER:N	3	2.7
(1,8)	1:A:78:ASN:N	1:A:78:ASN:CA	1:A:78:ASN:C	1:A:79:LEU:N	9	2.6
(1,57)	1:A:113:PHE:C	1:A:114:ILE:N	1:A:114:ILE:CA	1:A:114:ILE:C	9	2.6
(1,55)	1:A:112:GLY:C	1:A:113:PHE:N	1:A:113:PHE:CA	1:A:113:PHE:C	3	2.6
(1,168)	1:B:112:GLY:C	1:B:113:PHE:N	1:B:113:PHE:CA	1:B:113:PHE:C	3	2.6
(1,121)	1:B:78:ASN:N	1:B:78:ASN:CA	1:B:78:ASN:C	1:B:79:LEU:N	9	2.6
(1,7)	1:A:77:VAL:C	1:A:78:ASN:N	1:A:78:ASN:CA	1:A:78:ASN:C	4	2.5
(1,170)	1:B:113:PHE:C	1:B:114:ILE:N	1:B:114:ILE:CA	1:B:114:ILE:C	9	2.5
(1,118)	1:B:76:SER:C	1:B:77:VAL:N	1:B:77:VAL:CA	1:B:77:VAL:C	4	2.5
(1,80)	1:A:126:ALA:N	1:A:126:ALA:CA	1:A:126:ALA:C	1:A:127:ASP:N	4	2.4
(1,5)	1:A:76:SER:C	1:A:77:VAL:N	1:A:77:VAL:CA	1:A:77:VAL:C	4	2.4
(1,193)	1:B:126:ALA:N	1:B:126:ALA:CA	1:B:126:ALA:C	1:B:127:ASP:N	4	2.4
(1,120)	1:B:77:VAL:C	1:B:78:ASN:N	1:B:78:ASN:CA	1:B:78:ASN:C	4	2.4
(1,25)	1:A:92:LYS:C	1:A:93:VAL:N	1:A:93:VAL:CA	1:A:93:VAL:C	7	2.3
(1,125)	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	1:B:81:VAL:N	6	2.3
(1,12)	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	1:A:81:VAL:N	6	2.3
(1,138)	1:B:92:LYS:C	1:B:93:VAL:N	1:B:93:VAL:CA	1:B:93:VAL:C	7	2.2
(1,69)	1:A:119:HIS:C	1:A:120:ARG:N	1:A:120:ARG:CA	1:A:120:ARG:C	7	2.0
(1,182)	1:B:119:HIS:C	1:B:120:ARG:N	1:B:120:ARG:CA	1:B:120:ARG:C	7	2.0
(1,124)	1:B:79:LEU:C	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	9	2.0
(1,11)	1:A:79:LEU:C	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	9	2.0
(1,93)	1:A:135:SER:N	1:A:135:SER:CA	1:A:135:SER:C	1:A:136:SER:N	8	1.9
(1,67)	1:A:118:PHE:C	1:A:119:HIS:N	1:A:119:HIS:CA	1:A:119:HIS:C	4	1.9
(1,226)	1:B:146:ASP:N	1:B:146:ASP:CA	1:B:146:ASP:C	1:B:147:GLY:N	5	1.9
(1,113)	1:A:146:ASP:N	1:A:146:ASP:CA	1:A:146:ASP:C	1:A:147:GLY:N	5	1.9
(1,5)	1:A:76:SER:C	1:A:77:VAL:N	1:A:77:VAL:CA	1:A:77:VAL:C	8	1.8
(1,3)	1:A:75:PHE:C	1:A:76:SER:N	1:A:76:SER:CA	1:A:76:SER:C	2	1.8
(1,27)	1:A:93:VAL:C	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	5	1.8
(1,206)	1:B:135:SER:N	1:B:135:SER:CA	1:B:135:SER:C	1:B:136:SER:N	8	1.8
(1,180)	1:B:118:PHE:C	1:B:119:HIS:N	1:B:119:HIS:CA	1:B:119:HIS:C	4	1.8
(1,125)	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	1:B:81:VAL:N	1	1.8
(1,116)	1:B:75:PHE:C	1:B:76:SER:N	1:B:76:SER:CA	1:B:76:SER:C	2	1.8
(1,92)	1:A:134:THR:C	1:A:135:SER:N	1:A:135:SER:CA	1:A:135:SER:C	6	1.7
(1,205)	1:B:134:THR:C	1:B:135:SER:N	1:B:135:SER:CA	1:B:135:SER:C	6	1.7
(1,186)	1:B:121:LYS:C	1:B:122:TYR:N	1:B:122:TYR:CA	1:B:122:TYR:C	4	1.7
(1,140)	1:B:93:VAL:C	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	5	1.7
(1,12)	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	1:A:81:VAL:N	1	1.7
(1,118)	1:B:76:SER:C	1:B:77:VAL:N	1:B:77:VAL:CA	1:B:77:VAL:C	8	1.7
(1,73)	1:A:121:LYS:C	1:A:122:TYR:N	1:A:122:TYR:CA	1:A:122:TYR:C	4	1.6
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	6	1.6
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	5	1.5
(1,63)	1:A:116:ARG:C	1:A:117:GLU:N	1:A:117:GLU:CA	1:A:117:GLU:C	6	1.5
(1,135)	1:B:91:VAL:N	1:B:91:VAL:CA	1:B:91:VAL:C	1:B:92:LYS:N	2	1.5
(1,62)	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	1:A:117:GLU:N	7	1.4
(1,22)	1:A:91:VAL:N	1:A:91:VAL:CA	1:A:91:VAL:C	1:A:92:LYS:N	2	1.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,176)	1:B:116:ARG:C	1:B:117:GLU:N	1:B:117:GLU:CA	1:B:117:GLU:C	5	1.4
(1,175)	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	1:B:117:GLU:N	7	1.4
(1,61)	1:A:115:SER:C	1:A:116:ARG:N	1:A:116:ARG:CA	1:A:116:ARG:C	8	1.3
(1,125)	1:B:80:ASP:N	1:B:80:ASP:CA	1:B:80:ASP:C	1:B:81:VAL:N	2	1.3
(1,12)	1:A:80:ASP:N	1:A:80:ASP:CA	1:A:80:ASP:C	1:A:81:VAL:N	2	1.3
(1,90)	1:A:133:ILE:C	1:A:134:THR:N	1:A:134:THR:CA	1:A:134:THR:C	3	1.2
(1,27)	1:A:93:VAL:C	1:A:94:LEU:N	1:A:94:LEU:CA	1:A:94:LEU:C	6	1.2
(1,168)	1:B:112:GLY:C	1:B:113:PHE:N	1:B:113:PHE:CA	1:B:113:PHE:C	1	1.2
(1,55)	1:A:112:GLY:C	1:A:113:PHE:N	1:A:113:PHE:CA	1:A:113:PHE:C	1	1.1
(1,224)	1:B:145:VAL:N	1:B:145:VAL:CA	1:B:145:VAL:C	1:B:146:ASP:N	8	1.1
(1,203)	1:B:133:ILE:C	1:B:134:THR:N	1:B:134:THR:CA	1:B:134:THR:C	3	1.1
(1,174)	1:B:115:SER:C	1:B:116:ARG:N	1:B:116:ARG:CA	1:B:116:ARG:C	8	1.1
(1,140)	1:B:93:VAL:C	1:B:94:LEU:N	1:B:94:LEU:CA	1:B:94:LEU:C	6	1.1