Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 08:40 AM UTC

PDB ID	:	2M70 / pdb_00002m70
BMRB ID	:	19167
Title	:	Structural determination of the Citrus sinensis Poly(A)-Binding Protein CsPABP1
Authors	:	Sforca, M.L.; Domingues, M.N.; Zeri, A.C.M.; Benedetti, C.E.
Deposited on	:	2013-04-16

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

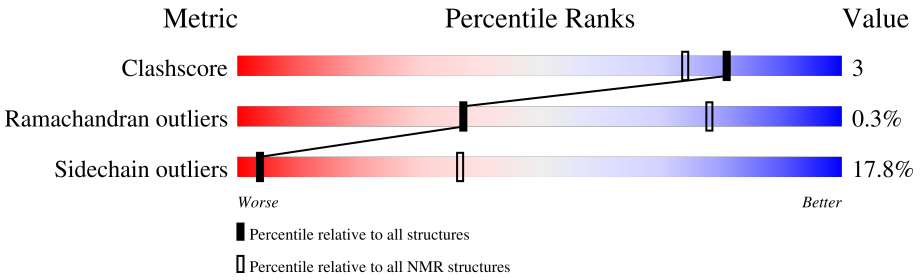
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber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

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
SOLUTION NMR

The overall completeness of chemical shifts assignment is 77%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	155	55% 10% 34%

2 Ensemble composition and analysis

This entry contains 20 models. Model 19 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:41-A:55 (15)	0.56	2
2	A:64-A:150 (87)	0.24	19

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 3 clusters and 1 single-model cluster was found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2362 atoms, of which 1161 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Poly(A)-binding protein 1.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	155	2362	734	1161	218	242	7	0

There are 23 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	expression tag	UNP G3LUH8
A	2	GLY	-	expression tag	UNP G3LUH8
A	3	SER	-	expression tag	UNP G3LUH8
A	4	SER	-	expression tag	UNP G3LUH8
A	5	HIS	-	expression tag	UNP G3LUH8
A	6	HIS	-	expression tag	UNP G3LUH8
A	7	HIS	-	expression tag	UNP G3LUH8
A	8	HIS	-	expression tag	UNP G3LUH8
A	9	HIS	-	expression tag	UNP G3LUH8
A	10	HIS	-	expression tag	UNP G3LUH8
A	11	SER	-	expression tag	UNP G3LUH8
A	12	SER	-	expression tag	UNP G3LUH8
A	13	GLY	-	expression tag	UNP G3LUH8
A	14	LEU	-	expression tag	UNP G3LUH8
A	15	VAL	-	expression tag	UNP G3LUH8
A	16	PRO	-	expression tag	UNP G3LUH8
A	17	ARG	-	expression tag	UNP G3LUH8
A	18	GLY	-	expression tag	UNP G3LUH8
A	19	SER	-	expression tag	UNP G3LUH8
A	20	HIS	-	expression tag	UNP G3LUH8
A	21	MET	-	expression tag	UNP G3LUH8
A	22	GLY	-	expression tag	UNP G3LUH8
A	23	SER	-	expression tag	UNP G3LUH8

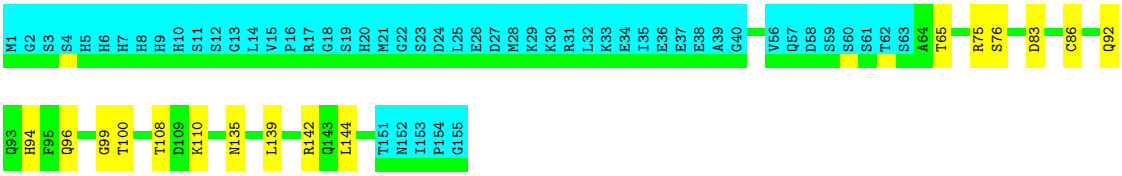
4 Residue-property plots

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: Poly(A)-binding protein 1

Chain A:



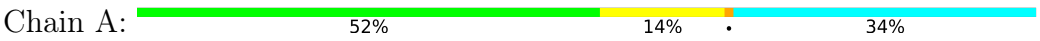
4.2 Scores per residue for each member of the ensemble

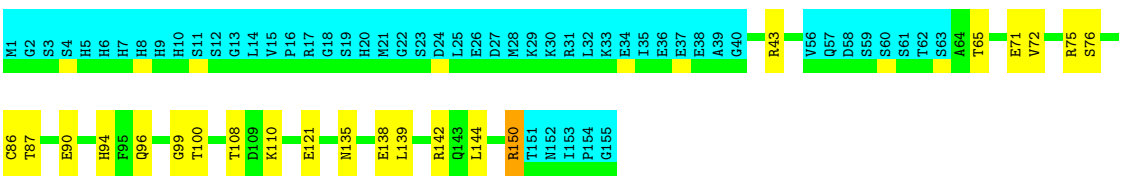
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: Poly(A)-binding protein 1

Chain A:

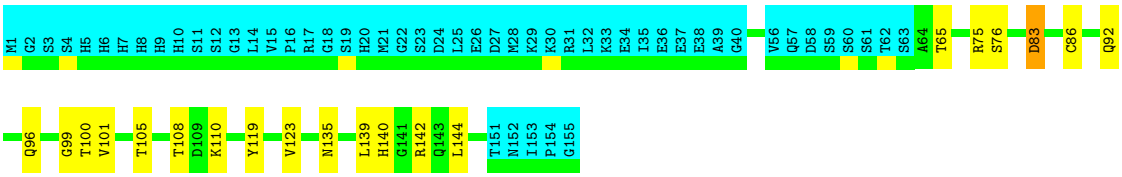




4.2.2 Score per residue for model 2

• Molecule 1: Poly(A)-binding protein 1

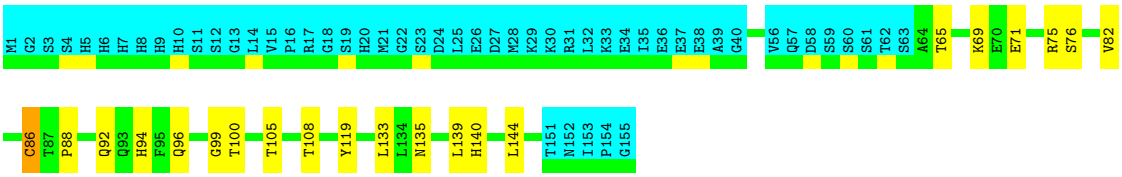
Chain A:



4.2.3 Score per residue for model 3

• Molecule 1: Poly(A)-binding protein 1

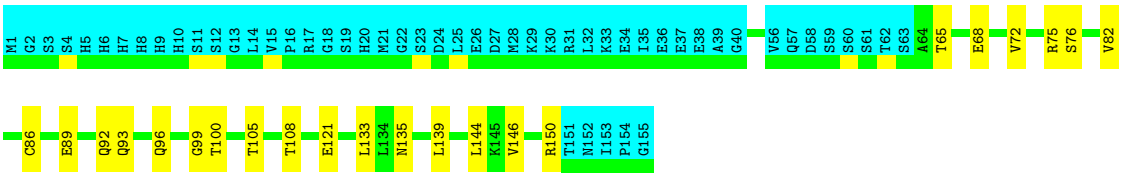
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: Poly(A)-binding protein 1

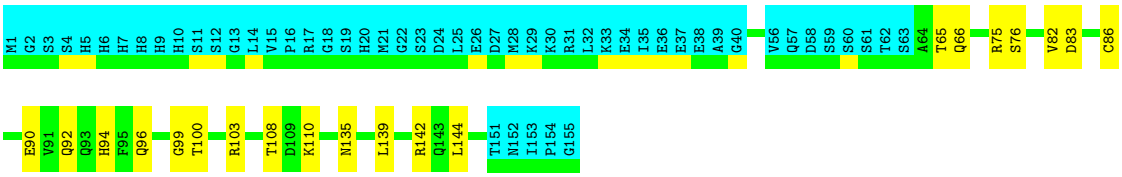
Chain A:



4.2.5 Score per residue for model 5

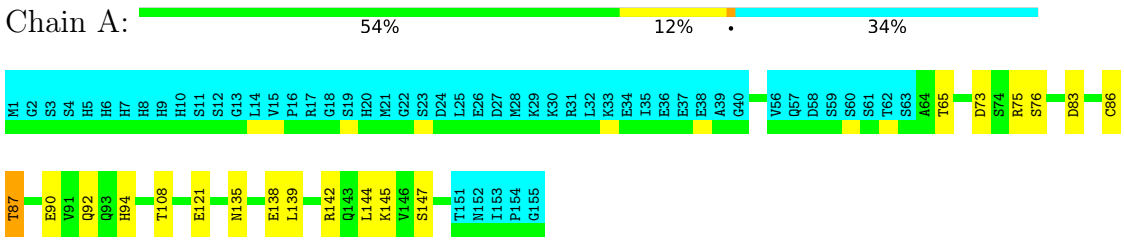
• Molecule 1: Poly(A)-binding protein 1

Chain A:



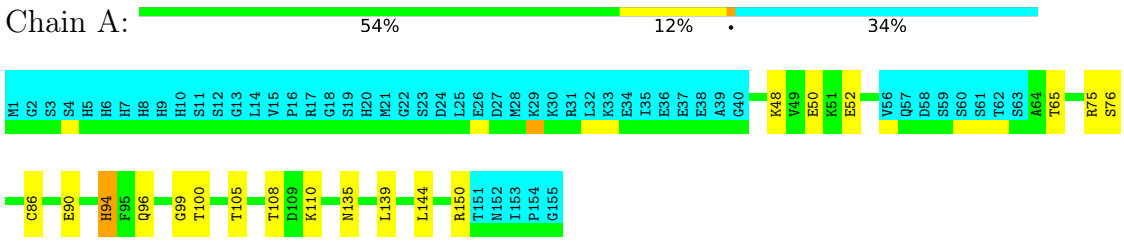
4.2.6 Score per residue for model 6

• Molecule 1: Poly(A)-binding protein 1



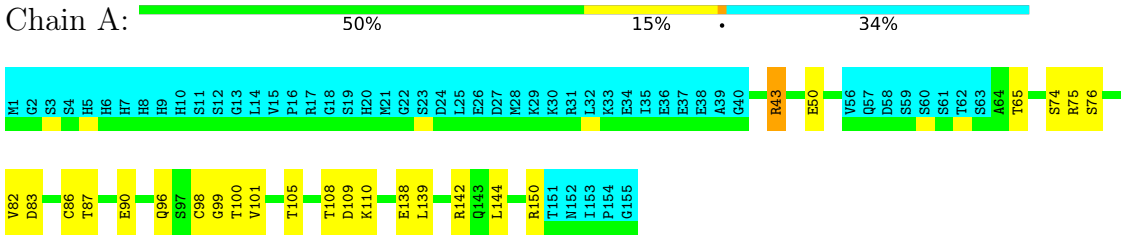
4.2.7 Score per residue for model 7

• Molecule 1: Poly(A)-binding protein 1



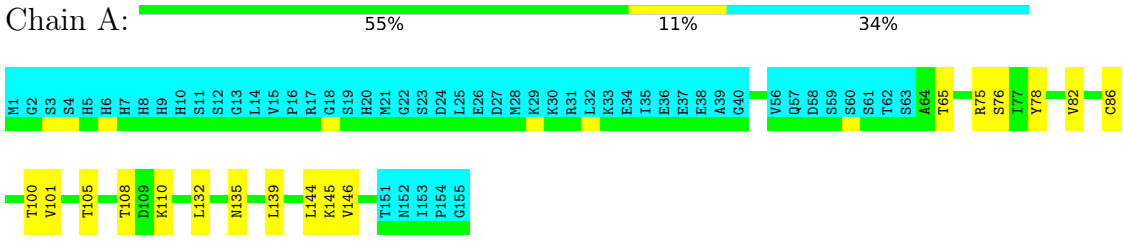
4.2.8 Score per residue for model 8

• Molecule 1: Poly(A)-binding protein 1



4.2.9 Score per residue for model 9

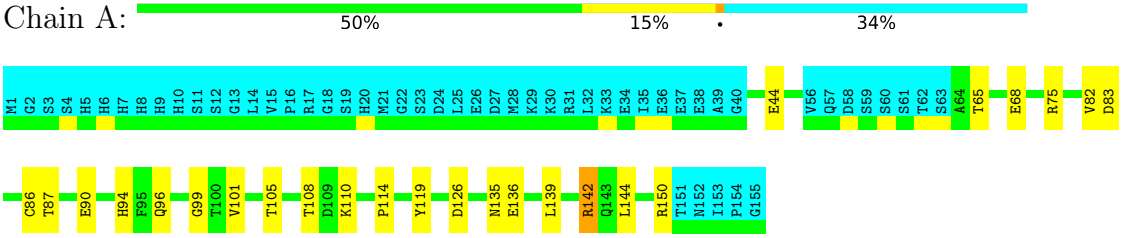
• Molecule 1: Poly(A)-binding protein 1



4.2.10 Score per residue for model 10

• Molecule 1: Poly(A)-binding protein 1

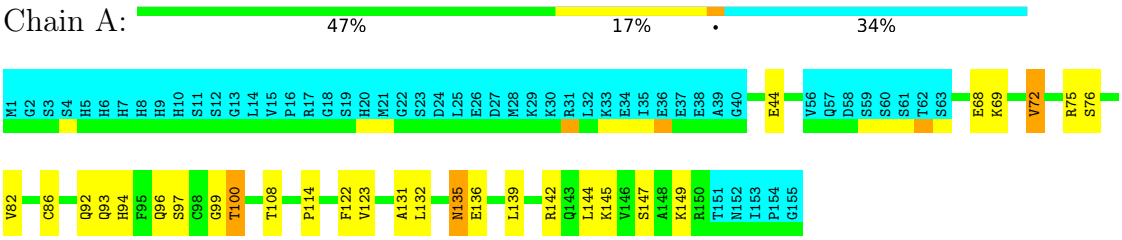
Chain A:



4.2.11 Score per residue for model 11

• Molecule 1: Poly(A)-binding protein 1

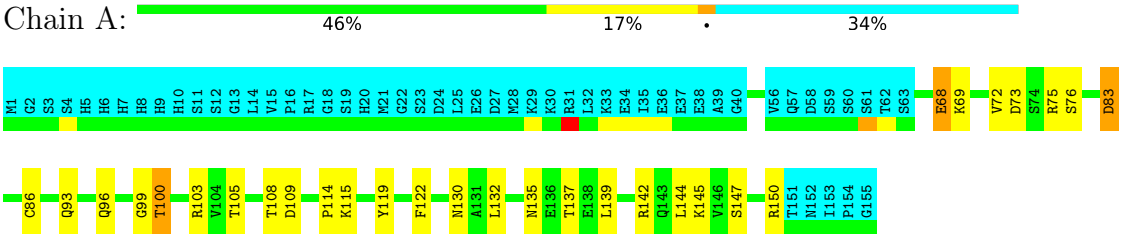
Chain A:



4.2.12 Score per residue for model 12

• Molecule 1: Poly(A)-binding protein 1

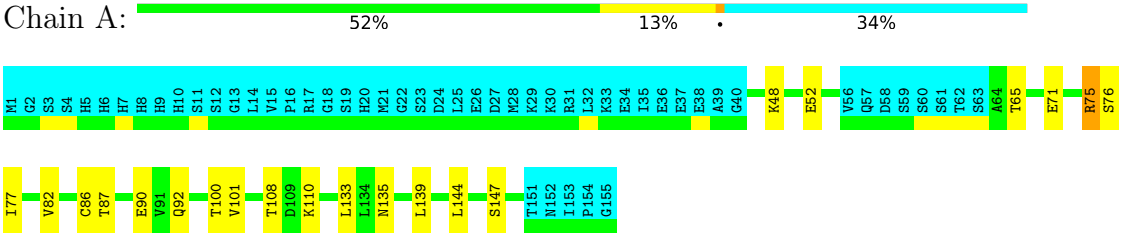
Chain A:



4.2.13 Score per residue for model 13

• Molecule 1: Poly(A)-binding protein 1

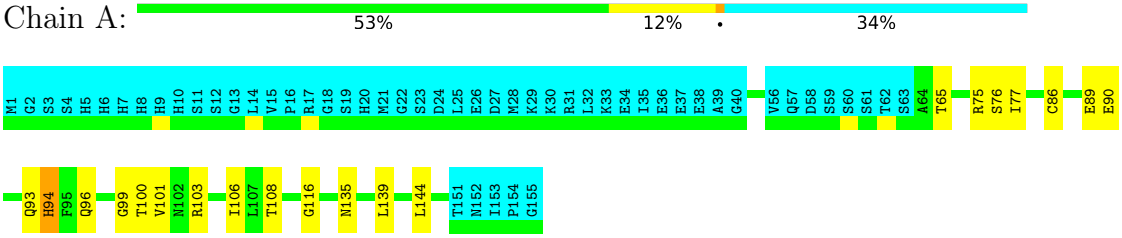
Chain A:



4.2.14 Score per residue for model 14

• Molecule 1: Poly(A)-binding protein 1

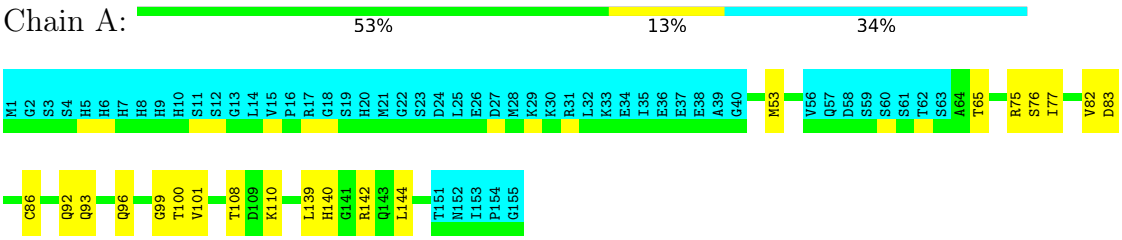
Chain A:



4.2.15 Score per residue for model 15

• Molecule 1: Poly(A)-binding protein 1

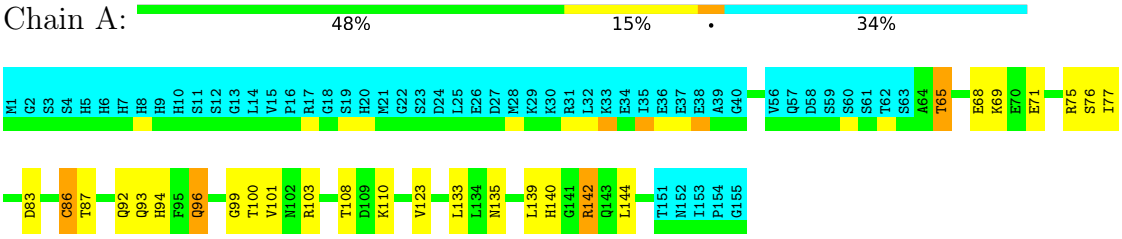
Chain A:



4.2.16 Score per residue for model 16

• Molecule 1: Poly(A)-binding protein 1

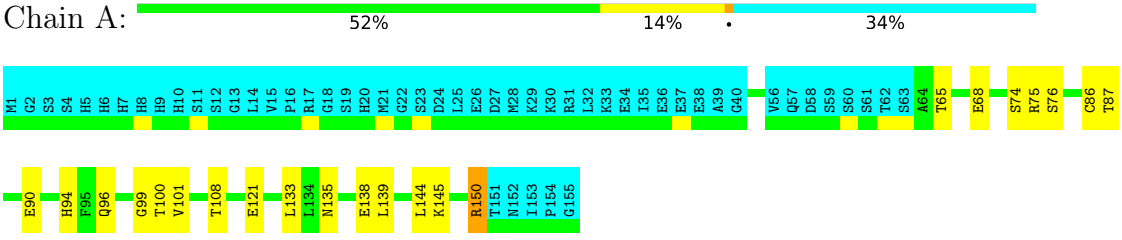
Chain A:



4.2.17 Score per residue for model 17

• Molecule 1: Poly(A)-binding protein 1

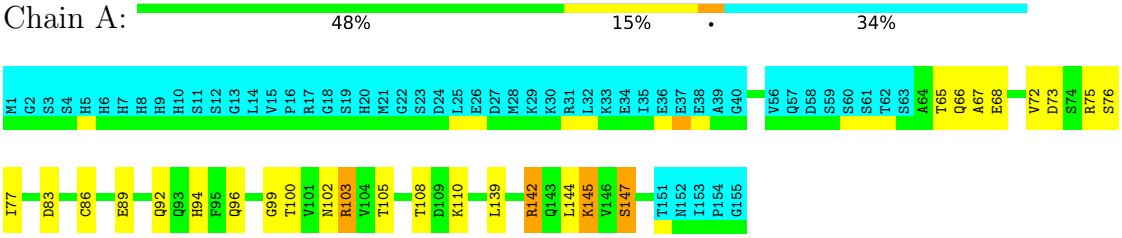
Chain A:



4.2.18 Score per residue for model 18

• Molecule 1: Poly(A)-binding protein 1

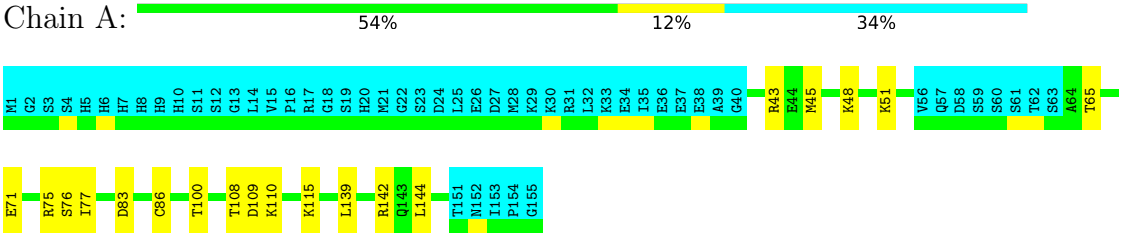
Chain A:



4.2.19 Score per residue for model 19 (medoid)

• Molecule 1: Poly(A)-binding protein 1

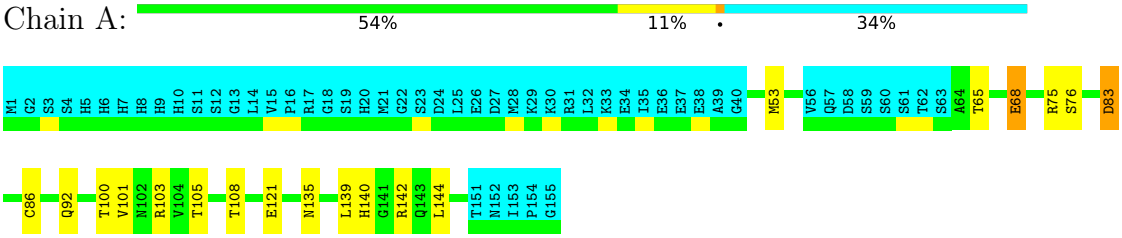
Chain A:



4.2.20 Score per residue for model 20

• Molecule 1: Poly(A)-binding protein 1

Chain A:



5 Refinement protocol and experimental data overview

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

Of the 400 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations.*

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

Software name	Classification	Version
CYANA	geometry optimization	
CYANA	structure solution	
CNS	refinement	
CYANA	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1181
Number of shifts mapped to atoms	1181
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	77%

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	801	790	790	4±1
All	All	16020	15800	15800	82

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 3.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:83:ASP:OD2	1:A:142:ARG:HB2	0.62	1.95	20	3
1:A:90:GLU:O	1:A:94:HIS:HB2	0.60	1.97	1	5
1:A:43:ARG:HB3	1:A:45:MET:SD	0.56	2.40	19	1
1:A:83:ASP:OD2	1:A:140:HIS:HB3	0.54	2.03	2	3
1:A:96:GLN:HA	1:A:99:GLY:O	0.54	2.03	16	15
1:A:83:ASP:OD2	1:A:142:ARG:HD3	0.54	2.03	8	3
1:A:83:ASP:CG	1:A:140:HIS:HB3	0.51	2.31	20	3
1:A:71:GLU:O	1:A:75:ARG:HD3	0.50	2.06	3	4
1:A:68:GLU:O	1:A:72:VAL:HG23	0.50	2.05	12	2
1:A:83:ASP:HB3	1:A:86:CYS:SG	0.49	2.47	6	2
1:A:132:LEU:HA	1:A:135:ASN:ND2	0.49	2.23	9	1
1:A:105:THR:HB	1:A:119:TYR:CE1	0.48	2.43	2	3
1:A:105:THR:HB	1:A:119:TYR:CE2	0.47	2.44	10	1
1:A:87:THR:O	1:A:90:GLU:HG2	0.46	2.08	10	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:131:ALA:O	1:A:135:ASN:HB2	0.46	2.11	11	1
1:A:74:SER:OG	1:A:150:ARG:HD3	0.46	2.10	17	1
1:A:43:ARG:HA	1:A:43:ARG:NE	0.46	2.25	8	1
1:A:88:PRO:O	1:A:92:GLN:HG2	0.45	2.12	3	1
1:A:100:THR:HB	1:A:122:PHE:CZ	0.45	2.47	12	2
1:A:83:ASP:OD1	1:A:142:ARG:HD2	0.45	2.11	10	1
1:A:69:LYS:HG3	1:A:73:ASP:OD2	0.45	2.11	12	1
1:A:145:LYS:HE2	1:A:147:SER:OG	0.44	2.13	18	1
1:A:48:LYS:O	1:A:52:GLU:HG2	0.44	2.13	13	2
1:A:83:ASP:OD2	1:A:142:ARG:HD2	0.44	2.13	18	2
1:A:102:ASN:OD1	1:A:103:ARG:HD2	0.44	2.13	18	1
1:A:109:ASP:O	1:A:115:LYS:HG2	0.44	2.13	19	1
1:A:68:GLU:HA	1:A:68:GLU:OE1	0.43	2.13	18	1
1:A:150:ARG:HD2	1:A:150:ARG:C	0.43	2.37	1	1
1:A:78:TYR:O	1:A:146:VAL:HA	0.43	2.14	9	1
1:A:135:ASN:OD1	1:A:146:VAL:HB	0.43	2.14	4	1
1:A:72:VAL:HG12	1:A:121:GLU:HB2	0.42	1.90	1	2
1:A:145:LYS:HE3	1:A:147:SER:OG	0.42	2.15	6	1
1:A:109:ASP:O	1:A:115:LYS:HE2	0.41	2.14	12	1
1:A:72:VAL:HA	1:A:122:PHE:O	0.41	2.15	11	1
1:A:109:ASP:C	1:A:110:LYS:HD2	0.41	2.40	8	1
1:A:106:ILE:HD11	1:A:116:GLY:HA2	0.41	1.93	14	1
1:A:71:GLU:O	1:A:75:ARG:HD2	0.41	2.15	13	1
1:A:89:GLU:O	1:A:93:GLN:HG2	0.40	2.15	4	1
1:A:86:CYS:SG	1:A:140:HIS:HB2	0.40	2.56	3	2
1:A:69:LYS:NZ	1:A:73:ASP:HB3	0.40	2.31	12	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	102/155 (66%)	95±1 (93±1%)	6±1 (6±1%)	0±1 (0±1%)	37	78
All	All	2040/3100 (66%)	1905 (93%)	128 (6%)	7 (0%)	37	78

All 2 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	135	ASN	4
1	A	114	PRO	3

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	86/132 (65%)	71±3 (82±4%)	15±3 (18±4%)	4 37
All	All	1720/2640 (65%)	1413 (82%)	307 (18%)	4 37

All 48 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	108	THR	20
1	A	139	LEU	20
1	A	144	LEU	20
1	A	76	SER	19
1	A	65	THR	18
1	A	86	CYS	18
1	A	100	THR	18
1	A	75	ARG	16
1	A	110	LYS	11
1	A	135	ASN	10
1	A	92	GLN	10
1	A	101	VAL	10
1	A	82	VAL	9
1	A	94	HIS	8
1	A	142	ARG	7
1	A	150	ARG	7
1	A	68	GLU	6
1	A	105	THR	6
1	A	103	ARG	6
1	A	77	ILE	6
1	A	133	LEU	5
1	A	145	LYS	5

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Mol	Chain	Res	Type	Models (Total)
1	A	93	GLN	5
1	A	138	GLU	4
1	A	147	SER	4
1	A	87	THR	3
1	A	83	ASP	3
1	A	69	LYS	3
1	A	121	GLU	3
1	A	43	ARG	2
1	A	123	VAL	2
1	A	66	GLN	2
1	A	50	GLU	2
1	A	44	GLU	2
1	A	136	GLU	2
1	A	132	LEU	2
1	A	89	GLU	2
1	A	73	ASP	1
1	A	74	SER	1
1	A	98	CYS	1
1	A	126	ASP	1
1	A	72	VAL	1
1	A	97	SER	1
1	A	149	LYS	1
1	A	130	ASN	1
1	A	137	THR	1
1	A	53	MET	1
1	A	96	GLN	1

6.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.6 Ligand geometry

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 77% for the well-defined parts and 58% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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	1181
Number of shifts mapped to atoms	1181
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	112	-0.10 ± 0.11	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	106	0.01 ± 0.18	None needed (< 0.5 ppm)
$^{13}C'$	102	-0.03 ± 0.16	None needed (< 0.5 ppm)
^{15}N	108	-0.23 ± 0.23	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 77%, i.e. 1068 atoms were assigned a chemical shift out of a possible 1381. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	492/512 (96%)	203/208 (98%)	192/204 (94%)	97/100 (97%)
Sidechain	548/788 (70%)	348/508 (69%)	200/246 (81%)	0/34 (0%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	28/81 (35%)	14/40 (35%)	14/39 (36%)	0/2 (0%)
Overall	1068/1381 (77%)	565/756 (75%)	406/489 (83%)	97/136 (71%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 58%, i.e. 1181 atoms were assigned a chemical shift out of a possible 2036. 0 out of 23 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	547/779 (70%)	225/318 (71%)	214/310 (69%)	108/151 (72%)
Sidechain	606/1127 (54%)	387/727 (53%)	219/355 (62%)	0/45 (0%)
Aromatic	28/130 (22%)	14/68 (21%)	14/53 (26%)	0/9 (0%)
Overall	1181/2036 (58%)	626/1113 (56%)	447/718 (62%)	108/205 (53%)

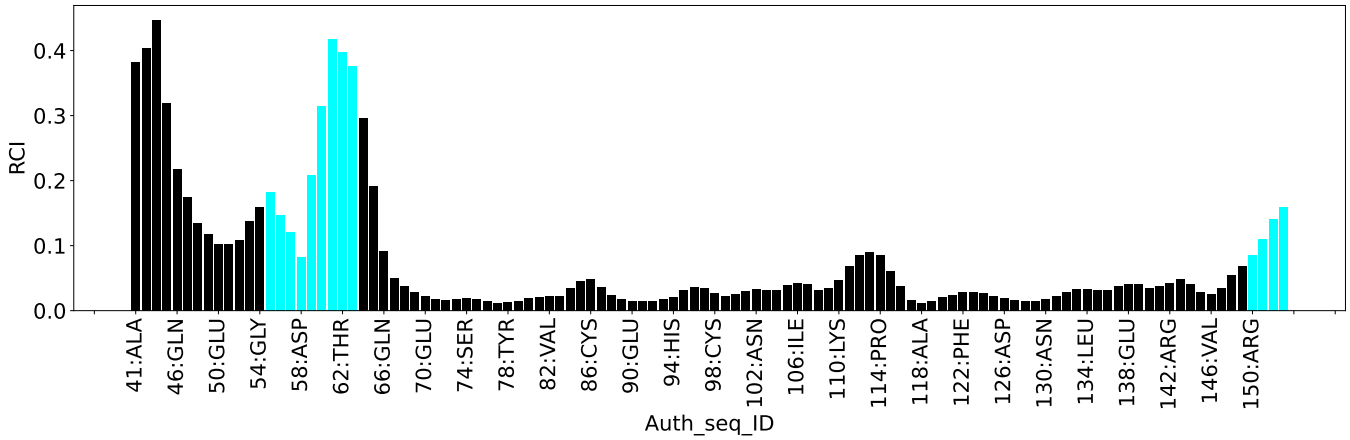
7.1.4 Statistically unusual chemical shifts (i)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2165
Intra-residue (|i-j|=0)	503
Sequential (|i-j|=1)	648
Medium range (|i-j|>1 and |i-j|<5)	502
Long range (|i-j|≥5)	512
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	14.0
Number of long range restraints per residue[1]	3.3

[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)	162.4	0.2
0.2-0.5 (Medium)	125.7	0.5
>0.5 (Large)	158.1	5.63

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

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

9 Distance violation analysis (i)

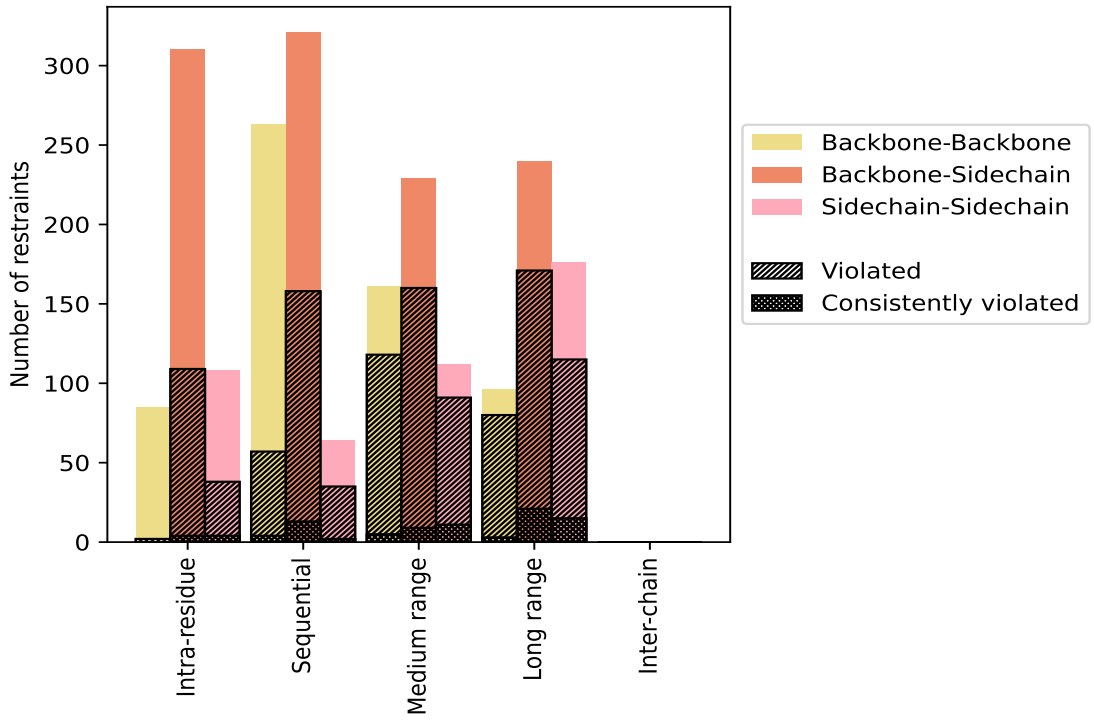
9.1 Summary of distance violations (i)

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

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	503	23.2	149	29.6	6.9	8	1.6	0.4
Backbone-Backbone	85	3.9	2	2.4	0.1	0	0.0	0.0
Backbone-Sidechain	310	14.3	109	35.2	5.0	4	1.3	0.2
Sidechain-Sidechain	108	5.0	38	35.2	1.8	4	3.7	0.2
Sequential (|i-j|=1)	648	29.9	250	38.6	11.5	19	2.9	0.9
Backbone-Backbone	263	12.1	57	21.7	2.6	4	1.5	0.2
Backbone-Sidechain	321	14.8	158	49.2	7.3	13	4.0	0.6
Sidechain-Sidechain	64	3.0	35	54.7	1.6	2	3.1	0.1
Medium range (|i-j|>1 & |i-j|<5)	502	23.2	369	73.5	17.0	25	5.0	1.2
Backbone-Backbone	161	7.4	118	73.3	5.5	5	3.1	0.2
Backbone-Sidechain	229	10.6	160	69.9	7.4	9	3.9	0.4
Sidechain-Sidechain	112	5.2	91	81.2	4.2	11	9.8	0.5
Long range (|i-j|≥5)	512	23.6	366	71.5	16.9	39	7.6	1.8
Backbone-Backbone	96	4.4	80	83.3	3.7	3	3.1	0.1
Backbone-Sidechain	240	11.1	171	71.2	7.9	21	8.8	1.0
Sidechain-Sidechain	176	8.1	115	65.3	5.3	15	8.5	0.7
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2165	100.0	1134	52.4	52.4	91	4.2	4.2
Backbone-Backbone	605	27.9	257	42.5	11.9	12	2.0	0.6
Backbone-Sidechain	1100	50.8	598	54.4	27.6	47	4.3	2.2
Sidechain-Sidechain	460	21.2	279	60.7	12.9	32	7.0	1.5

[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	44	86	121	156	0	407	0.48	3.65	0.53	0.21
2	49	81	134	176	0	440	0.47	3.74	0.54	0.22
3	41	93	128	158	0	420	0.47	3.08	0.52	0.22
4	46	89	122	144	0	401	0.5	3.27	0.53	0.22
5	43	85	127	156	0	411	0.49	3.76	0.56	0.21
6	50	89	131	155	0	425	0.47	3.31	0.54	0.21
7	41	89	118	155	0	403	0.48	3.57	0.55	0.22
8	60	99	130	149	0	438	0.45	3.48	0.51	0.21
9	38	87	120	163	0	408	0.48	3.29	0.52	0.22
10	72	119	198	226	0	615	0.61	5.19	0.58	0.39

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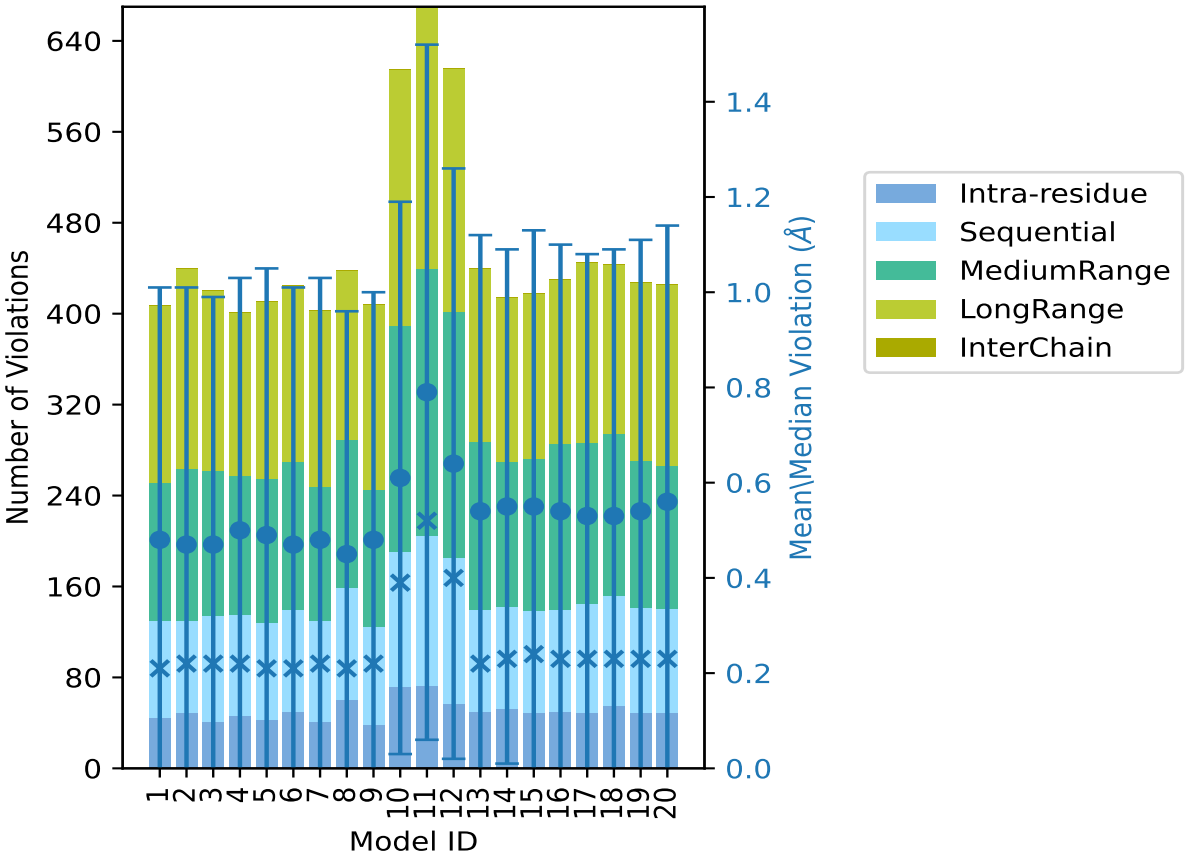
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	73	132	235	230	0	670	0.79	5.18	0.73	0.52
12	57	128	217	214	0	616	0.64	5.63	0.62	0.4
13	50	90	147	153	0	440	0.54	3.35	0.58	0.22
14	53	89	128	144	0	414	0.55	3.15	0.54	0.23
15	49	90	133	146	0	418	0.55	3.41	0.58	0.24
16	50	89	146	145	0	430	0.54	3.29	0.56	0.23
17	49	96	141	159	0	445	0.53	3.08	0.55	0.23
18	55	97	142	149	0	443	0.53	3.28	0.56	0.23
19	49	92	130	156	0	427	0.54	3.45	0.57	0.23
20	49	92	125	160	0	426	0.56	3.1	0.58	0.23

[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



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

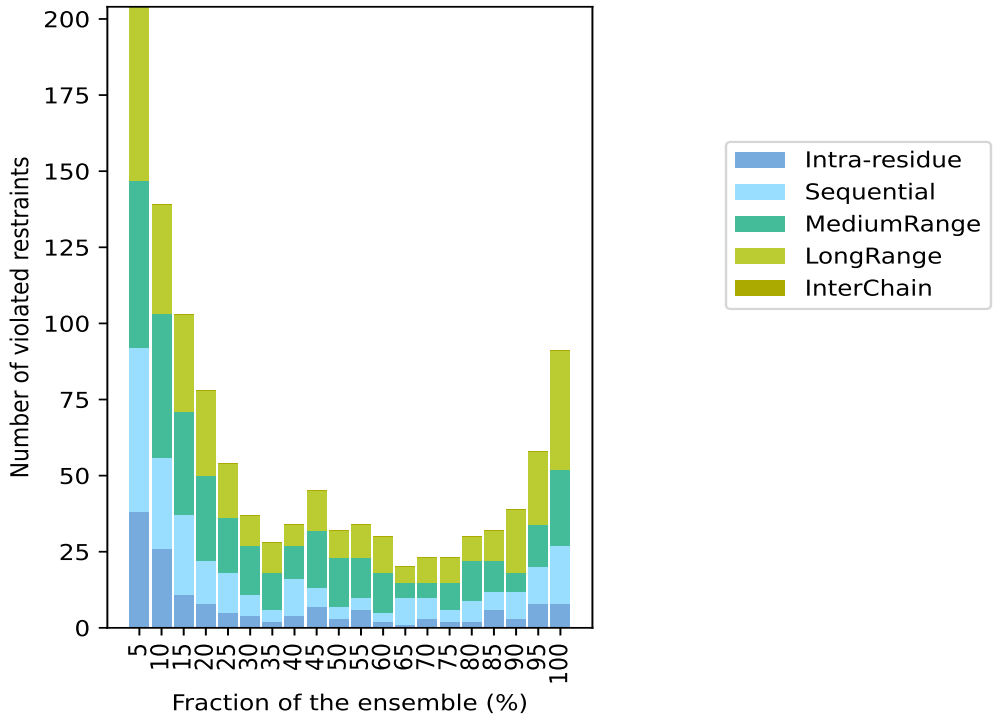
9.3 Distance violation statistics for the ensemble (i)

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, 1031(IR:354, SQ:398, MR:133, LR:146, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
38	54	55	57	0	204	1	5.0
26	30	47	36	0	139	2	10.0
11	26	34	32	0	103	3	15.0
8	14	28	28	0	78	4	20.0
5	13	18	18	0	54	5	25.0
4	7	16	10	0	37	6	30.0
2	4	12	10	0	28	7	35.0
4	12	11	7	0	34	8	40.0
7	6	19	13	0	45	9	45.0
3	4	16	9	0	32	10	50.0
6	4	13	11	0	34	11	55.0
2	3	13	12	0	30	12	60.0
1	9	5	5	0	20	13	65.0
3	7	5	8	0	23	14	70.0
2	4	9	8	0	23	15	75.0
2	7	13	8	0	30	16	80.0
6	6	10	10	0	32	17	85.0
3	9	6	21	0	39	18	90.0
8	12	14	24	0	58	19	95.0
8	19	25	39	0	91	20	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

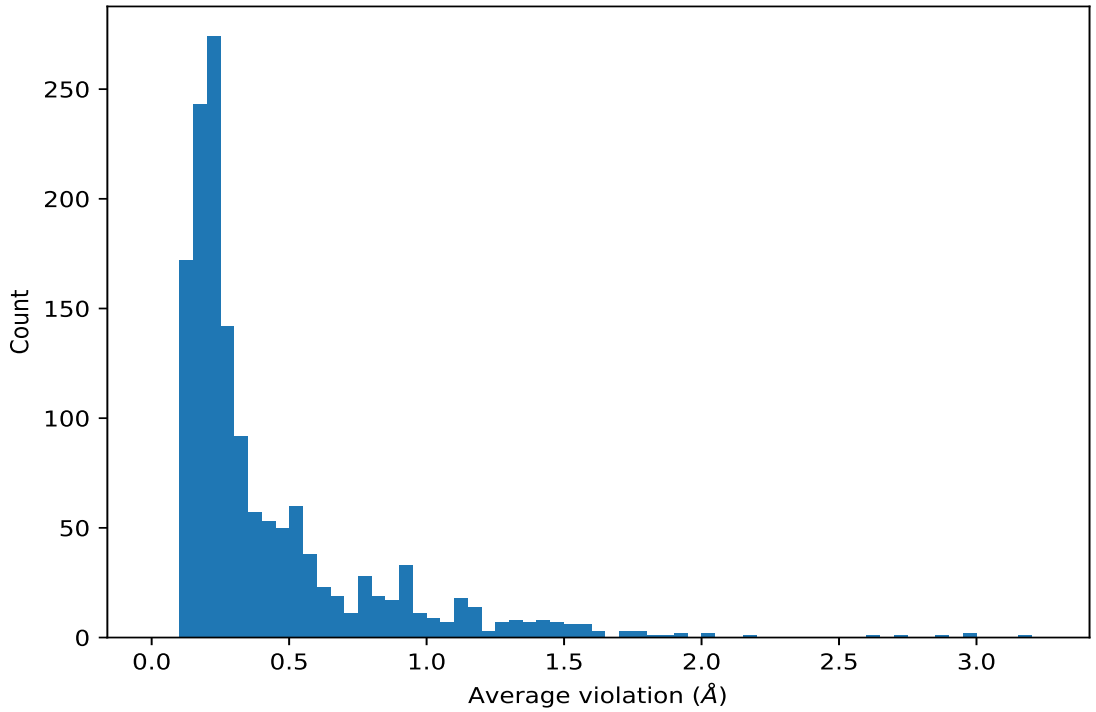
9.3.1 Bar graph : Distance violation statistics for the ensemble



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 theviolation 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)
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	20	3.16	0.41	3.16
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	20	2.98	1.15	3.08
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	20	2.98	1.15	3.08
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	20	2.0	0.75	2.41
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	20	1.92	0.23	1.89
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	20	1.89	0.36	1.96
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	20	1.83	0.23	1.83
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	20	1.77	0.24	1.8
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	20	1.77	0.24	1.82
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	20	1.73	0.89	1.86
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	20	1.63	0.42	1.76
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	20	1.56	0.08	1.54
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	20	1.55	0.17	1.54
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	20	1.52	0.2	1.44
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	20	1.51	0.18	1.5
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	20	1.5	0.19	1.54

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	20	1.5	0.19	1.54
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	20	1.48	0.08	1.5
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	20	1.47	0.41	1.59
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	20	1.47	0.41	1.59
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	20	1.43	0.37	1.44
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	20	1.42	0.14	1.43
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	20	1.42	0.48	1.53
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	20	1.42	0.48	1.53
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	20	1.41	0.31	1.34
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	20	1.41	0.31	1.34
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	20	1.41	0.33	1.5
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	20	1.37	0.21	1.36
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	20	1.37	0.22	1.39
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	20	1.37	0.22	1.39
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	20	1.34	0.3	1.34
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	20	1.32	0.33	1.37
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	20	1.32	0.33	1.37
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	20	1.29	0.23	1.28
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	20	1.25	0.26	1.18
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	20	1.25	0.26	1.18
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	20	1.24	0.12	1.23
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	20	1.2	0.1	1.21
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	20	1.17	0.13	1.16
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	20	1.17	0.27	1.23
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	20	1.17	0.27	1.23
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	20	1.16	0.4	1.31
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	20	1.16	0.4	1.31
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	20	1.14	0.31	1.18
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	20	1.14	0.17	1.17
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	20	1.14	0.35	1.15
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	20	1.14	0.35	1.15
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	20	1.11	0.32	1.19
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	20	1.11	0.32	1.19
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	20	1.1	0.27	1.04
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	20	1.03	0.22	1.0
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	20	0.96	0.36	1.02
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	20	0.96	0.36	1.02
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	20	0.96	0.26	0.88
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	20	0.93	0.45	0.92
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	20	0.93	0.45	0.92
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	20	0.9	0.57	0.76
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	20	0.9	0.24	0.88

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	20	0.9	0.24	0.88
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	20	0.87	0.09	0.84
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	20	0.87	0.17	0.91
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	20	0.86	0.15	0.84
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	20	0.85	0.29	0.83
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	20	0.84	0.53	0.64
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	20	0.84	0.4	0.72
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	20	0.83	0.51	0.76
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	20	0.78	0.34	0.7
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	20	0.73	0.17	0.75
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	20	0.73	0.48	0.62
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	20	0.72	0.48	0.8
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	20	0.7	0.25	0.64
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	20	0.68	0.18	0.69
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	20	0.65	0.26	0.5
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	20	0.64	0.2	0.62
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	20	0.63	0.33	0.52
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	20	0.62	0.17	0.62
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	20	0.61	0.18	0.58
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	20	0.61	0.18	0.58
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	20	0.57	0.24	0.54
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	20	0.56	0.03	0.56
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	20	0.51	0.45	0.37
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	20	0.48	0.6	0.28
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	20	0.48	0.6	0.28
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	20	0.45	0.2	0.36
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	20	0.38	0.32	0.24
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	20	0.37	0.2	0.39
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	20	0.36	0.52	0.21
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	20	0.3	0.11	0.26
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	20	0.3	0.11	0.26
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	20	0.3	0.24	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	20	0.3	0.24	0.22
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	20	0.29	0.16	0.24
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	20	0.29	0.16	0.24
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	20	0.28	0.27	0.19
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	20	0.27	0.19	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	20	0.27	0.19	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	20	0.26	0.1	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	20	0.26	0.1	0.22
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	20	0.25	0.06	0.24
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	20	0.24	0.22	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	20	0.24	0.22	0.16
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	20	0.23	0.09	0.22
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	20	0.23	0.07	0.22
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	20	0.23	0.07	0.22
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	20	0.23	0.04	0.22
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	20	0.22	0.08	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	20	0.22	0.08	0.2
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	20	0.22	0.04	0.22
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	20	0.22	0.05	0.22
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	20	0.21	0.04	0.22
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	20	0.21	0.04	0.22
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	20	0.21	0.04	0.21
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	20	0.2	0.02	0.2
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	20	0.2	0.04	0.2
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	20	0.19	0.06	0.18
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	20	0.19	0.06	0.18
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	20	0.19	0.06	0.18
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	20	0.19	0.06	0.18
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	20	0.18	0.05	0.17
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	20	0.14	0.02	0.14
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	19	2.7	0.77	2.85
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	19	2.6	0.42	2.72
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	19	2.18	0.86	2.11
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	19	1.58	0.3	1.52
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	19	1.58	0.3	1.52
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	19	1.57	0.33	1.65
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	19	1.48	0.15	1.5
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	19	1.46	0.08	1.45
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	19	1.41	0.12	1.44
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	19	1.4	0.12	1.39
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	19	1.31	0.28	1.35
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	19	1.31	0.29	1.4
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	19	1.24	0.27	1.35
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	19	1.15	0.08	1.16
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	19	1.15	0.08	1.16
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	19	1.09	0.24	1.18
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	19	1.03	0.36	1.02
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	19	1.03	0.36	1.02
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	19	1.03	0.12	0.99
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	19	1.01	0.37	1.03
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	19	0.98	0.18	1.02
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	19	0.98	0.18	1.02

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	19	0.94	0.05	0.95
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	19	0.93	0.39	1.17
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	19	0.93	0.39	1.17
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	19	0.93	0.16	0.93
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	19	0.88	0.06	0.89
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	19	0.86	0.22	0.92
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	19	0.83	0.25	0.85
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	19	0.78	0.09	0.8
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	19	0.78	0.09	0.8
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	19	0.77	0.27	0.76
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	19	0.77	0.27	0.76
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	19	0.77	0.47	1.09
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	19	0.66	0.17	0.63
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	19	0.62	0.0	0.62
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	19	0.59	0.19	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	19	0.58	0.01	0.58
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	19	0.55	0.09	0.55
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	19	0.55	0.09	0.55
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	19	0.49	0.09	0.5
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	19	0.49	0.09	0.5
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	19	0.47	0.19	0.39
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	19	0.45	0.63	0.19
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	19	0.43	0.34	0.25
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	19	0.42	0.45	0.23
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	19	0.41	0.61	0.19
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	19	0.41	0.61	0.19
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	19	0.36	0.49	0.22
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	19	0.36	0.49	0.22
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	19	0.35	0.16	0.31
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	19	0.3	0.2	0.24
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	19	0.3	0.2	0.24
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	19	0.29	0.12	0.26
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	19	0.29	0.12	0.26
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	19	0.28	0.14	0.23
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	19	0.28	0.14	0.23
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	19	0.28	0.24	0.22
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	19	0.27	0.11	0.27
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	19	0.26	0.07	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	19	0.26	0.07	0.24
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	19	0.25	0.06	0.24
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	19	0.25	0.11	0.22
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	19	0.22	0.08	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	19	0.21	0.03	0.22
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	19	0.2	0.06	0.21
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	19	0.2	0.08	0.19
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	19	0.2	0.08	0.19
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	19	0.2	0.03	0.2
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	19	0.2	0.07	0.19
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	19	0.2	0.07	0.19
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	19	0.19	0.06	0.18
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	19	0.19	0.04	0.18
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	19	0.17	0.03	0.17
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	19	0.17	0.03	0.17
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	19	0.16	0.07	0.15
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	18	2.89	0.66	3.04
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	18	2.03	0.49	1.83
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	18	1.94	0.45	2.1
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	18	1.53	0.09	1.52
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	18	1.53	0.09	1.52
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	18	1.29	0.11	1.31
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	18	1.27	0.1	1.28
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	18	1.25	0.18	1.24
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	18	1.25	0.18	1.24
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	18	1.2	0.09	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	18	1.15	0.19	1.2
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	18	1.11	0.07	1.11
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	18	1.08	0.13	1.09
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	18	1.08	0.13	1.09
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	18	0.9	0.13	0.9
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	18	0.9	0.13	0.9
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	18	0.88	0.14	0.88
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	18	0.86	0.23	0.82
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	18	0.71	0.51	0.68
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	18	0.65	0.06	0.64
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	18	0.64	0.11	0.66
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	18	0.64	0.15	0.64
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	18	0.54	0.0	0.54
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	18	0.54	0.55	0.37
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	18	0.54	0.55	0.37
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	18	0.53	0.46	0.35
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	18	0.5	0.0	0.5
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	18	0.37	0.16	0.34
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	18	0.36	0.38	0.24
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	18	0.36	0.38	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	18	0.33	0.27	0.24
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	18	0.33	0.27	0.24
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	18	0.31	0.36	0.24
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	18	0.31	0.05	0.3
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	18	0.31	0.05	0.3
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	18	0.23	0.07	0.22
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	18	0.22	0.08	0.22
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	18	0.22	0.08	0.22
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	18	0.21	0.08	0.22
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	18	0.2	0.1	0.19
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	18	0.2	0.13	0.18
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	18	0.2	0.03	0.2
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	18	0.2	0.06	0.2
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	18	0.19	0.05	0.18
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	18	0.18	0.05	0.18
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	18	0.17	0.04	0.17
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	18	0.17	0.04	0.17
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	18	0.17	0.04	0.17
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	18	0.17	0.04	0.17
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	18	0.17	0.04	0.17
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	18	0.15	0.03	0.16
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	17	1.16	0.26	1.17
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	17	1.16	0.26	1.17
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	17	0.86	0.62	0.92
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	17	0.79	0.07	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	17	0.79	0.07	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	17	0.79	0.07	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	17	0.79	0.07	0.81
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	17	0.79	0.01	0.79
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	17	0.66	0.01	0.66
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	17	0.65	0.19	0.65
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	17	0.65	0.19	0.65
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	17	0.58	0.01	0.58
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	17	0.46	0.17	0.45
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	17	0.45	0.1	0.45
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	17	0.34	0.45	0.18
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	17	0.33	0.28	0.23
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	17	0.29	0.25	0.2
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	17	0.26	0.16	0.22
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	17	0.26	0.17	0.22
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	17	0.26	0.17	0.22
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	17	0.23	0.02	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	17	0.23	0.09	0.2
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	17	0.22	0.17	0.15
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	17	0.22	0.1	0.21
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	17	0.22	0.1	0.2
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	17	0.22	0.08	0.21
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	17	0.21	0.04	0.21
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	17	0.21	0.04	0.21
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	17	0.21	0.07	0.2
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	17	0.21	0.04	0.19
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	17	0.21	0.04	0.2
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	17	0.2	0.05	0.21
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	17	0.2	0.06	0.2
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	17	0.2	0.06	0.2
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	17	0.2	0.06	0.2
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	17	0.2	0.06	0.2
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	17	0.2	0.05	0.2
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	17	0.2	0.05	0.2
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	17	0.2	0.1	0.18
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	17	0.2	0.06	0.19
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	17	0.15	0.04	0.15
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	17	0.14	0.02	0.14
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	17	0.13	0.01	0.13
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	16	1.33	0.93	1.84
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	16	1.02	0.66	1.48
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	16	0.77	0.37	0.72
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	16	0.74	0.32	0.9
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	16	0.74	0.32	0.9
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	16	0.54	0.68	0.22
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	16	0.52	1.0	0.18
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	16	0.52	0.55	0.38
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	16	0.51	0.7	0.19
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	16	0.35	0.28	0.26
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	16	0.32	0.44	0.17
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	16	0.31	0.12	0.32
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	16	0.31	0.4	0.16
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	16	0.28	0.23	0.22
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	16	0.28	0.23	0.22
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	16	0.28	0.23	0.22
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	16	0.28	0.23	0.22
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	16	0.26	0.15	0.2
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	16	0.25	0.15	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	16	0.25	0.15	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	16	0.25	0.17	0.2
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	16	0.24	0.12	0.22
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	16	0.24	0.12	0.22
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	16	0.24	0.05	0.24
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	16	0.24	0.05	0.24
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	16	0.23	0.24	0.16
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	16	0.23	0.16	0.2
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	16	0.22	0.04	0.22
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	16	0.22	0.04	0.22
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	16	0.22	0.11	0.2
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	16	0.22	0.11	0.2
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	16	0.21	0.08	0.2
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	16	0.2	0.06	0.19
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	16	0.19	0.05	0.18
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	16	0.19	0.05	0.2
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	16	0.19	0.11	0.15
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	16	0.15	0.03	0.16
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	16	0.15	0.02	0.14
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	16	0.14	0.03	0.13
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	15	1.17	0.7	1.55
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	15	1.17	0.7	1.55
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	15	0.61	1.24	0.23
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	15	0.53	0.69	0.21
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	15	0.36	0.44	0.23
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	15	0.36	0.43	0.21
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	15	0.34	0.29	0.21
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	15	0.34	0.29	0.21
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	15	0.32	0.15	0.26
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	15	0.32	0.15	0.26
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	15	0.31	0.16	0.27
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	15	0.31	0.16	0.27
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	15	0.29	0.25	0.2
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	15	0.26	0.03	0.25
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	15	0.26	0.03	0.25
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	15	0.25	0.24	0.21
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	15	0.25	0.24	0.21
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	15	0.25	0.08	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	15	0.25	0.08	0.23
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	15	0.22	0.04	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	15	0.22	0.04	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	15	0.22	0.04	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	15	0.22	0.04	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	15	0.22	0.07	0.19
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	15	0.2	0.03	0.21
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	15	0.2	0.09	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	15	0.2	0.08	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	15	0.2	0.08	0.18
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	15	0.19	0.09	0.18
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	15	0.19	0.09	0.18
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	15	0.19	0.07	0.19
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	15	0.19	0.07	0.19
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	15	0.19	0.05	0.19
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	15	0.19	0.05	0.17
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	15	0.19	0.05	0.17
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	15	0.17	0.03	0.16
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	15	0.15	0.07	0.13
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	14	1.57	0.27	1.6
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	14	1.15	0.69	1.44
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	14	0.98	0.36	0.84
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	14	0.96	0.47	1.2
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	14	0.84	0.58	0.76
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	14	0.82	0.17	0.8
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	14	0.67	0.41	0.78
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	14	0.36	0.44	0.21
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	14	0.32	0.34	0.16
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	14	0.31	0.22	0.22
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	14	0.31	0.26	0.22
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	14	0.3	0.21	0.24
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	14	0.3	0.21	0.24
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	14	0.3	0.21	0.24
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	14	0.3	0.21	0.24
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	14	0.23	0.18	0.2
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	14	0.23	0.18	0.2
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	14	0.21	0.15	0.15
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	14	0.21	0.15	0.15
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	14	0.21	0.05	0.21
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	14	0.21	0.05	0.21
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	14	0.18	0.04	0.18
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	14	0.18	0.09	0.15
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	14	0.18	0.09	0.15
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	14	0.18	0.06	0.17
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	14	0.17	0.06	0.15
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	14	0.16	0.03	0.16
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	14	0.15	0.04	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	14	0.15	0.04	0.14
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	14	0.14	0.04	0.12
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	14	0.13	0.03	0.12
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	14	0.13	0.03	0.12
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	13	1.09	0.54	1.32
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	13	0.56	0.95	0.21
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	13	0.45	0.23	0.41
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	13	0.34	0.37	0.2
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	13	0.28	0.17	0.22
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	13	0.28	0.17	0.22
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	13	0.26	0.11	0.22
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	13	0.26	0.11	0.22
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	13	0.25	0.15	0.19
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	13	0.24	0.31	0.14
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	13	0.22	0.12	0.21
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	13	0.22	0.13	0.16
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	13	0.22	0.12	0.19
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	13	0.22	0.12	0.19
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	13	0.22	0.13	0.16
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	13	0.21	0.02	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	13	0.21	0.02	0.2
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	13	0.2	0.15	0.14
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	13	0.17	0.11	0.12
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	13	0.17	0.11	0.12
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	13	0.16	0.05	0.16
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	13	0.16	0.03	0.15
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	13	0.14	0.04	0.13
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	13	0.14	0.03	0.13
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	13	0.14	0.03	0.13
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	13	0.13	0.03	0.12
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	12	1.0	0.45	1.0
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	12	1.0	0.45	1.0
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	12	0.89	0.29	0.93
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	12	0.78	0.37	1.0
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	12	0.53	0.43	0.36
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	12	0.52	0.79	0.18
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	12	0.52	0.79	0.18
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	12	0.49	0.41	0.28
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	12	0.49	0.49	0.24
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	12	0.49	0.49	0.24
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	12	0.43	0.41	0.22
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	12	0.42	0.51	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	12	0.4	0.46	0.24
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	12	0.4	0.46	0.24
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	12	0.37	0.38	0.27
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	12	0.37	0.38	0.27
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	12	0.3	0.25	0.24
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	12	0.3	0.25	0.24
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	12	0.25	0.09	0.22
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	12	0.24	0.13	0.22
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	12	0.24	0.13	0.22
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	12	0.24	0.13	0.22
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	12	0.24	0.13	0.22
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	12	0.24	0.13	0.22
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	12	0.24	0.12	0.2
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	12	0.24	0.12	0.2
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	12	0.23	0.05	0.23
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	12	0.23	0.07	0.22
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	12	0.23	0.07	0.22
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	12	0.2	0.03	0.2
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	12	0.19	0.03	0.19
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	12	0.18	0.09	0.15
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	12	0.18	0.09	0.15
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	12	0.18	0.08	0.16
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	12	0.17	0.07	0.15
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	12	0.17	0.04	0.18
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	12	0.17	0.04	0.18
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	12	0.17	0.04	0.18
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	12	0.17	0.1	0.14
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	12	0.17	0.1	0.14
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	12	0.17	0.1	0.13
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	12	0.16	0.06	0.15
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	12	0.16	0.06	0.15
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	12	0.15	0.03	0.15
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	12	0.14	0.04	0.12
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	11	1.39	0.34	1.57
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	11	1.08	0.34	1.25
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	11	1.08	0.34	1.25
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	11	0.9	0.07	0.89
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	11	0.9	0.07	0.89
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	11	0.61	0.14	0.6
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	11	0.6	0.76	0.13
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	11	0.56	0.94	0.16
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	11	0.51	0.8	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	11	0.51	0.8	0.2
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	11	0.5	0.24	0.49
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	11	0.49	0.53	0.21
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	11	0.43	0.39	0.2
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	11	0.43	0.39	0.2
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	11	0.37	0.32	0.22
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	11	0.37	0.32	0.22
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	11	0.36	0.51	0.14
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	11	0.33	0.12	0.31
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	11	0.33	0.28	0.2
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	11	0.33	0.04	0.31
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	11	0.28	0.21	0.17
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	11	0.28	0.21	0.17
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	11	0.25	0.04	0.27
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	11	0.25	0.04	0.27
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	11	0.23	0.11	0.21
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	11	0.22	0.1	0.21
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	11	0.22	0.1	0.21
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	11	0.22	0.1	0.19
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	11	0.22	0.03	0.22
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	11	0.22	0.03	0.22
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	11	0.2	0.06	0.21
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	11	0.2	0.11	0.14
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	11	0.2	0.11	0.14
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	11	0.19	0.08	0.19
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	11	0.19	0.08	0.19
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	11	0.19	0.04	0.2
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	11	0.19	0.04	0.2
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	11	0.19	0.09	0.15
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	11	0.19	0.09	0.15
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	11	0.19	0.06	0.17
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	11	0.19	0.06	0.17
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	11	0.18	0.09	0.16
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	11	0.18	0.09	0.16
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	11	0.17	0.05	0.16
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	11	0.17	0.04	0.15
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	11	0.17	0.04	0.17
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	11	0.17	0.04	0.17
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	11	0.16	0.06	0.14
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	11	0.16	0.06	0.14
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	11	0.15	0.03	0.16
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	11	0.13	0.03	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	11	0.13	0.03	0.12
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	10	1.12	0.01	1.12
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	10	1.11	0.0	1.11
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	10	1.04	0.23	0.96
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	10	0.91	0.02	0.9
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	10	0.78	0.25	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	10	0.75	0.14	0.74
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	10	0.75	0.14	0.74
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	10	0.75	0.14	0.74
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	10	0.75	0.14	0.74
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	10	0.57	0.69	0.2
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	10	0.53	0.34	0.42
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	10	0.53	0.34	0.42
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	10	0.48	0.0	0.48
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	10	0.47	0.61	0.18
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	10	0.47	0.61	0.18
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	10	0.47	0.29	0.42
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	10	0.47	0.29	0.42
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	10	0.43	0.42	0.24
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	10	0.43	0.42	0.24
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	10	0.43	0.42	0.24
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	10	0.43	0.42	0.24
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	10	0.38	0.27	0.24
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	10	0.38	0.27	0.24
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	10	0.32	0.23	0.26
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	10	0.32	0.23	0.26
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	10	0.31	0.24	0.22
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	10	0.31	0.24	0.22
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	10	0.31	0.24	0.22
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	10	0.31	0.24	0.22
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	10	0.31	0.14	0.26
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	10	0.31	0.14	0.26
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	10	0.27	0.22	0.22
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	10	0.27	0.22	0.22
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	10	0.24	0.17	0.19
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	10	0.24	0.17	0.19
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	10	0.21	0.12	0.16
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	10	0.2	0.04	0.21
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	10	0.2	0.04	0.21
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	10	0.2	0.22	0.12
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	10	0.2	0.04	0.18
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	10	0.2	0.04	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	10	0.18	0.04	0.19
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	10	0.18	0.15	0.14
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	10	0.18	0.04	0.18
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	10	0.17	0.04	0.16
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	10	0.17	0.04	0.18
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	10	0.17	0.04	0.18
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	10	0.17	0.04	0.18
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	10	0.16	0.11	0.12
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	10	0.15	0.03	0.15
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	10	0.15	0.03	0.15
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	10	0.13	0.02	0.12
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	10	0.13	0.02	0.12
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	10	0.13	0.02	0.12
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	9	0.99	0.32	1.15
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	9	0.89	0.28	0.99
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	9	0.85	0.09	0.88
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	9	0.65	0.7	0.18
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	9	0.54	0.4	0.34
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	9	0.54	0.4	0.34
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	9	0.53	0.0	0.53
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	9	0.52	0.4	0.48
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	9	0.52	0.4	0.48
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	9	0.51	0.64	0.28
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	9	0.51	0.64	0.28
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	9	0.5	0.18	0.42
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	9	0.5	0.18	0.42
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	9	0.46	0.5	0.25
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	9	0.46	0.5	0.25
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	9	0.46	0.5	0.25
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	9	0.46	0.5	0.25
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	9	0.45	0.66	0.13
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	9	0.36	0.26	0.22
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	9	0.36	0.26	0.22
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	9	0.36	0.26	0.22
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	9	0.36	0.26	0.22
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	9	0.35	0.51	0.13
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	9	0.34	0.26	0.23
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	9	0.34	0.26	0.23
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	9	0.34	0.29	0.29
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	9	0.33	0.21	0.23
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	9	0.33	0.21	0.23
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	9	0.33	0.28	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	9	0.3	0.26	0.17
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	9	0.3	0.26	0.17
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	9	0.3	0.26	0.17
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	9	0.3	0.26	0.17
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	9	0.29	0.34	0.2
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	9	0.29	0.34	0.2
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	9	0.29	0.34	0.2
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	9	0.29	0.34	0.2
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	9	0.28	0.16	0.2
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	9	0.27	0.08	0.27
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	9	0.26	0.26	0.17
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	9	0.26	0.26	0.17
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	9	0.26	0.26	0.17
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	9	0.26	0.26	0.17
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	9	0.25	0.13	0.24
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	9	0.25	0.13	0.24
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	9	0.24	0.09	0.24
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	9	0.24	0.09	0.24
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	9	0.24	0.11	0.21
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	9	0.24	0.11	0.21
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	9	0.24	0.17	0.19
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	9	0.22	0.09	0.18
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	9	0.21	0.07	0.21
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	9	0.21	0.07	0.21
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	9	0.2	0.05	0.2
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	9	0.2	0.05	0.2
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	9	0.2	0.05	0.21
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	9	0.2	0.05	0.21
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	9	0.2	0.08	0.18
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	9	0.2	0.08	0.18
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	9	0.19	0.06	0.2
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	9	0.19	0.02	0.2
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	9	0.18	0.05	0.17
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	9	0.18	0.05	0.17
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	9	0.17	0.07	0.15
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	9	0.17	0.07	0.15
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	9	0.17	0.07	0.15
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	9	0.17	0.05	0.18
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	9	0.17	0.05	0.14
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	9	0.17	0.08	0.14
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	9	0.17	0.09	0.13
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	9	0.16	0.05	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	9	0.16	0.05	0.15
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	9	0.16	0.03	0.16
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	9	0.15	0.05	0.13
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	9	0.15	0.05	0.13
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	9	0.15	0.03	0.15
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	9	0.14	0.03	0.13
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	8	0.76	1.3	0.17
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	8	0.64	0.63	0.26
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	8	0.64	0.63	0.26
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	8	0.53	0.47	0.24
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	8	0.53	0.47	0.24
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	8	0.53	0.47	0.24
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	8	0.53	0.47	0.24
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	8	0.52	0.01	0.52
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	8	0.47	0.54	0.16
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	8	0.44	0.47	0.22
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	8	0.44	0.47	0.22
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	8	0.43	0.46	0.24
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	8	0.43	0.46	0.24
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	8	0.4	0.43	0.2
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	8	0.37	0.19	0.38
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	8	0.37	0.19	0.38
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	8	0.37	0.38	0.22
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	8	0.35	0.36	0.21
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	8	0.35	0.36	0.21
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	8	0.34	0.27	0.2
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	8	0.34	0.27	0.2
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	8	0.33	0.23	0.16
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	8	0.28	0.16	0.22
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	8	0.28	0.16	0.22
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	8	0.27	0.27	0.18
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	8	0.27	0.27	0.18
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	8	0.27	0.19	0.22
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	8	0.25	0.23	0.17
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	8	0.25	0.23	0.17
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	8	0.25	0.23	0.17
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	8	0.25	0.23	0.17
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	8	0.25	0.06	0.24
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	8	0.24	0.22	0.15
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	8	0.24	0.09	0.22
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	8	0.24	0.09	0.22
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	8	0.23	0.18	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	8	0.23	0.18	0.14
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	8	0.21	0.04	0.22
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	8	0.21	0.04	0.22
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	8	0.2	0.07	0.18
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	8	0.19	0.05	0.2
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	8	0.19	0.05	0.2
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	8	0.19	0.05	0.2
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	8	0.19	0.05	0.2
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	8	0.19	0.04	0.18
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	8	0.18	0.09	0.15
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	8	0.18	0.09	0.15
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	8	0.18	0.04	0.2
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	8	0.18	0.03	0.17
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	8	0.18	0.03	0.17
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	8	0.17	0.04	0.16
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	8	0.17	0.04	0.16
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	8	0.16	0.05	0.16
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	8	0.16	0.06	0.14
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	8	0.15	0.03	0.14
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	8	0.15	0.03	0.14
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	8	0.15	0.03	0.14
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	8	0.15	0.03	0.14
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	8	0.13	0.03	0.12
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	8	0.12	0.01	0.11
(1,1008)	1:85:A:ALA:HA	1:85:A:ALA:HB3	7	0.58	0.0	0.58
(1,1203)	1:95:A:PHE:HE1	1:138:A:GLU:H	7	0.42	0.52	0.2
(1,1266)	1:99:A:GLY:HA2	1:131:A:ALA:HB3	7	0.4	0.21	0.28
(1,1266)	1:99:A:GLY:HA3	1:131:A:ALA:HB3	7	0.4	0.21	0.28
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB2	7	0.36	0.34	0.16
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB3	7	0.36	0.34	0.16
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB2	7	0.36	0.34	0.16
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB3	7	0.36	0.34	0.16
(1,856)	1:79:A:VAL:HG11	1:146:A:VAL:HA	7	0.31	0.25	0.19
(1,1881)	1:135:A:ASN:HB2	1:146:A:VAL:HB	7	0.28	0.13	0.24
(1,1881)	1:135:A:ASN:HB3	1:146:A:VAL:HB	7	0.28	0.13	0.24
(1,1277)	1:101:A:VAL:HA	1:103:A:ARG:H	7	0.28	0.18	0.21
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA2	7	0.27	0.2	0.22
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA3	7	0.27	0.2	0.22
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA2	7	0.27	0.2	0.22
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA3	7	0.27	0.2	0.22
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG11	7	0.26	0.22	0.13
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG21	7	0.26	0.22	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB2	7	0.26	0.15	0.16
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB3	7	0.26	0.15	0.16
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB2	7	0.26	0.15	0.16
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB3	7	0.26	0.15	0.16
(1,966)	1:83:A:ASP:HB2	1:86:A:CYS:H	7	0.25	0.23	0.16
(1,966)	1:83:A:ASP:HB3	1:86:A:CYS:H	7	0.25	0.23	0.16
(1,227)	1:53:A:MET:HA	1:56:A:VAL:HG11	7	0.24	0.09	0.21
(1,609)	1:72:A:VAL:HB	1:123:A:VAL:HA	7	0.23	0.13	0.17
(1,430)	1:66:A:GLN:HA	1:70:A:GLU:H	7	0.23	0.08	0.2
(1,56)	1:45:A:MET:H	1:46:A:GLN:HA	7	0.22	0.03	0.22
(1,1926)	1:137:A:THR:H	1:144:A:LEU:H	7	0.21	0.13	0.16
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG2	7	0.2	0.14	0.14
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG3	7	0.2	0.14	0.14
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB2	7	0.19	0.04	0.19
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB3	7	0.19	0.04	0.19
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB2	7	0.19	0.04	0.19
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB3	7	0.19	0.04	0.19
(1,1931)	1:137:A:THR:HA	1:143:A:GLN:HA	7	0.19	0.07	0.14
(1,232)	1:54:A:GLY:H	1:56:A:VAL:H	7	0.18	0.06	0.17
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB2	7	0.18	0.04	0.17
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB3	7	0.18	0.04	0.17
(1,928)	1:82:A:VAL:HB	1:116:A:GLY:H	7	0.18	0.09	0.14
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG2	7	0.17	0.05	0.19
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG3	7	0.17	0.05	0.19
(1,2125)	1:150:A:ARG:HA	1:151:A:THR:HB	7	0.17	0.05	0.19
(1,536)	1:70:A:GLU:HA	1:72:A:VAL:H	7	0.17	0.02	0.17
(1,1710)	1:126:A:ASP:HB2	1:127:A:ALA:HA	7	0.16	0.03	0.16
(1,1710)	1:126:A:ASP:HB3	1:127:A:ALA:HA	7	0.16	0.03	0.16
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA2	7	0.14	0.03	0.15
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA3	7	0.14	0.03	0.15
(1,1069)	1:89:A:GLU:HA	1:91:A:VAL:H	7	0.14	0.03	0.14
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB2	6	1.14	1.5	0.22
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB3	6	1.14	1.5	0.22
(1,770)	1:77:A:ILE:HG21	1:132:A:LEU:H	6	0.93	0.82	0.66
(1,1219)	1:96:A:GLN:HA	1:101:A:VAL:HG11	6	0.81	0.74	0.64
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB2	6	0.8	0.73	0.53
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB3	6	0.8	0.73	0.53
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB2	6	0.78	0.71	0.4
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB3	6	0.78	0.71	0.4
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB2	6	0.78	0.71	0.4
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB3	6	0.78	0.71	0.4
(1,2036)	1:144:A:LEU:HD11	1:146:A:VAL:HB	6	0.64	0.82	0.26

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,740)	1:77:A:ILE:HA	1:77:A:ILE:HD11	6	0.57	0.02	0.57
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG2	6	0.49	0.64	0.15
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG3	6	0.49	0.64	0.15
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB2	6	0.41	0.36	0.22
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB3	6	0.41	0.36	0.22
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	6	0.39	0.07	0.38
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	6	0.39	0.07	0.38
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	6	0.39	0.07	0.38
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	6	0.39	0.07	0.38
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB2	6	0.34	0.38	0.2
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB3	6	0.34	0.38	0.2
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB2	6	0.34	0.38	0.2
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB3	6	0.34	0.38	0.2
(1,39)	1:43:A:ARG:HA	1:45:A:MET:H	6	0.34	0.24	0.26
(1,2085)	1:148:A:ALA:HB3	1:150:A:ARG:H	6	0.34	0.14	0.4
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG2	6	0.32	0.22	0.25
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG3	6	0.32	0.22	0.25
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE2	6	0.29	0.03	0.3
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE3	6	0.29	0.03	0.3
(1,907)	1:81:A:ASN:HB2	1:145:A:LYS:H	6	0.26	0.17	0.18
(1,907)	1:81:A:ASN:HB3	1:145:A:LYS:H	6	0.26	0.17	0.18
(1,182)	1:50:A:GLU:HB2	1:51:A:LYS:H	6	0.25	0.2	0.15
(1,182)	1:50:A:GLU:HB3	1:51:A:LYS:H	6	0.25	0.2	0.15
(1,51)	1:43:A:ARG:HG2	1:45:A:MET:HA	6	0.24	0.13	0.2
(1,51)	1:43:A:ARG:HG3	1:45:A:MET:HA	6	0.24	0.13	0.2
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB2	6	0.24	0.08	0.25
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB3	6	0.24	0.08	0.25
(1,229)	1:53:A:MET:HB2	1:56:A:VAL:HG11	6	0.22	0.04	0.24
(1,229)	1:53:A:MET:HB3	1:56:A:VAL:HG11	6	0.22	0.04	0.24
(1,1639)	1:123:A:VAL:HB	1:124:A:GLU:H	6	0.21	0.19	0.12
(1,112)	1:47:A:ALA:HA	1:50:A:GLU:H	6	0.21	0.04	0.22
(1,299)	1:57:A:GLN:HA	1:61:A:SER:HA	6	0.21	0.08	0.19
(1,1264)	1:99:A:GLY:HA2	1:131:A:ALA:H	6	0.21	0.07	0.2
(1,1264)	1:99:A:GLY:HA3	1:131:A:ALA:H	6	0.21	0.07	0.2
(1,751)	1:77:A:ILE:HB	1:148:A:ALA:HA	6	0.2	0.08	0.16
(1,816)	1:78:A:TYR:HB2	1:149:A:LYS:HA	6	0.2	0.06	0.2
(1,816)	1:78:A:TYR:HB3	1:149:A:LYS:HA	6	0.2	0.06	0.2
(1,673)	1:75:A:ARG:HA	1:122:A:PHE:H	6	0.2	0.05	0.18
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG2	6	0.19	0.05	0.2
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG3	6	0.19	0.05	0.2
(1,826)	1:79:A:VAL:H	1:119:A:TYR:H	6	0.18	0.04	0.19
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD2	6	0.17	0.06	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD3	6	0.17	0.06	0.14
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG2	6	0.16	0.04	0.17
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG3	6	0.16	0.04	0.17
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB2	6	0.16	0.04	0.16
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB3	6	0.16	0.04	0.16
(1,557)	1:71:A:GLU:HA	1:73:A:ASP:H	6	0.16	0.07	0.12
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG2	6	0.16	0.02	0.16
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG3	6	0.16	0.02	0.16
(1,558)	1:71:A:GLU:HA	1:74:A:SER:H	6	0.14	0.03	0.15
(1,788)	1:78:A:TYR:H	1:147:A:SER:H	6	0.14	0.02	0.14
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB2	6	0.14	0.02	0.14
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB3	6	0.14	0.02	0.14
(1,1591)	1:119:A:TYR:H	1:120:A:VAL:HG11	5	0.96	0.64	1.42
(1,2115)	1:149:A:LYS:HG2	1:151:A:THR:HG21	5	0.94	0.33	0.76
(1,2115)	1:149:A:LYS:HG3	1:151:A:THR:HG21	5	0.94	0.33	0.76
(1,1837)	1:132:A:LEU:HB2	1:149:A:LYS:H	5	0.92	0.91	0.48
(1,1837)	1:132:A:LEU:HB3	1:149:A:LYS:H	5	0.92	0.91	0.48
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD2	5	0.68	0.55	0.27
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD3	5	0.68	0.55	0.27
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD2	5	0.68	0.55	0.27
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD3	5	0.68	0.55	0.27
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG2	5	0.6	0.44	0.29
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG3	5	0.6	0.44	0.29
(1,623)	1:72:A:VAL:HG11	1:123:A:VAL:H	5	0.55	0.54	0.21
(1,1356)	1:104:A:VAL:HB	1:120:A:VAL:HB	5	0.51	0.25	0.67
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG11	5	0.49	0.48	0.21
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG21	5	0.49	0.48	0.21
(1,1960)	1:139:A:LEU:H	1:139:A:LEU:HD11	5	0.48	0.51	0.15
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG11	5	0.46	0.6	0.2
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG21	5	0.46	0.6	0.2
(1,377)	1:64:A:ALA:HA	1:67:A:ALA:H	5	0.45	0.38	0.18
(1,994)	1:84:A:TYR:HB2	1:114:A:PRO:HA	5	0.43	0.27	0.47
(1,994)	1:84:A:TYR:HB3	1:114:A:PRO:HA	5	0.43	0.27	0.47
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG2	5	0.42	0.33	0.18
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG3	5	0.42	0.33	0.18
(1,1265)	1:99:A:GLY:HA2	1:131:A:ALA:HA	5	0.39	0.22	0.24
(1,1265)	1:99:A:GLY:HA3	1:131:A:ALA:HA	5	0.39	0.22	0.24
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB2	5	0.37	0.3	0.2
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB3	5	0.37	0.3	0.2
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB2	5	0.35	0.28	0.24
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB3	5	0.35	0.28	0.24
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB2	5	0.33	0.39	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB3	5	0.33	0.39	0.15
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB2	5	0.33	0.39	0.15
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB3	5	0.33	0.39	0.15
(1,1310)	1:102:A:ASN:HB2	1:122:A:PHE:HA	5	0.33	0.29	0.18
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB2	5	0.33	0.12	0.3
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB3	5	0.33	0.12	0.3
(1,1309)	1:102:A:ASN:HA	1:122:A:PHE:HA	5	0.28	0.19	0.17
(1,1894)	1:136:A:GLU:HA	1:138:A:GLU:H	5	0.26	0.12	0.23
(1,1819)	1:132:A:LEU:HA	1:134:A:LEU:H	5	0.26	0.11	0.25
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB2	5	0.25	0.1	0.22
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB3	5	0.25	0.1	0.22
(1,537)	1:70:A:GLU:HA	1:73:A:ASP:H	5	0.25	0.23	0.15
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG2	5	0.24	0.14	0.22
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG3	5	0.24	0.14	0.22
(1,1)	1:41:A:ALA:H	1:41:A:ALA:HB3	5	0.23	0.04	0.24
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB2	5	0.23	0.1	0.25
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB3	5	0.23	0.1	0.25
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB2	5	0.22	0.14	0.14
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB3	5	0.22	0.14	0.14
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD2	5	0.21	0.05	0.24
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD3	5	0.21	0.05	0.24
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD2	5	0.21	0.05	0.24
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD3	5	0.21	0.05	0.24
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB2	5	0.21	0.09	0.21
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB3	5	0.21	0.09	0.21
(1,564)	1:71:A:GLU:HG2	1:72:A:VAL:H	5	0.21	0.09	0.22
(1,329)	1:60:A:SER:HA	1:62:A:THR:HB	5	0.21	0.02	0.2
(1,2147)	1:152:A:ASN:HA	1:153:A:ILE:H	5	0.2	0.1	0.15
(1,686)	1:75:A:ARG:HB2	1:121:A:GLU:HA	5	0.18	0.06	0.18
(1,686)	1:75:A:ARG:HB3	1:121:A:GLU:HA	5	0.18	0.06	0.18
(1,1279)	1:101:A:VAL:HA	1:122:A:PHE:HA	5	0.18	0.1	0.12
(1,1950)	1:138:A:GLU:HA	1:143:A:GLN:H	5	0.18	0.04	0.18
(1,1675)	1:125:A:ILE:HA	1:128:A:VAL:HG11	5	0.17	0.07	0.15
(1,716)	1:76:A:SER:HA	1:122:A:PHE:H	5	0.17	0.06	0.16
(1,1996)	1:141:A:GLY:H	1:142:A:ARG:H	5	0.17	0.03	0.17
(1,9)	1:41:A:ALA:HA	1:43:A:ARG:H	5	0.17	0.03	0.17
(1,282)	1:56:A:VAL:HB	1:61:A:SER:HA	5	0.17	0.06	0.16
(1,1653)	1:124:A:GLU:HA	1:126:A:ASP:H	5	0.17	0.04	0.16
(1,1885)	1:136:A:GLU:H	1:137:A:THR:H	5	0.16	0.03	0.15
(1,2118)	1:150:A:ARG:H	1:151:A:THR:HA	5	0.16	0.04	0.18
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG2	5	0.16	0.04	0.14
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG3	5	0.16	0.04	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG2	5	0.16	0.04	0.14
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG3	5	0.16	0.04	0.14
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG2	5	0.15	0.06	0.13
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG3	5	0.15	0.06	0.13
(1,1009)	1:85:A:ALA:HA	1:86:A:CYS:H	5	0.15	0.02	0.14
(1,2063)	1:146:A:VAL:H	1:146:A:VAL:HB	5	0.14	0.04	0.12
(1,773)	1:77:A:ILE:HG21	1:148:A:ALA:HA	5	0.14	0.01	0.14
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB2	5	0.14	0.04	0.12
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB3	5	0.14	0.04	0.12
(1,1146)	1:92:A:GLN:HA	1:120:A:VAL:HG11	5	0.13	0.03	0.11
(1,786)	1:78:A:TYR:H	1:146:A:VAL:HA	5	0.13	0.02	0.14
(1,248)	1:55:A:ALA:HB3	1:56:A:VAL:H	5	0.13	0.02	0.13
(1,311)	1:58:A:ASP:HA	1:59:A:SER:HA	5	0.11	0.01	0.11
(1,1690)	1:125:A:ILE:HG21	1:129:A:GLN:H	4	1.23	0.82	1.34
(1,767)	1:77:A:ILE:HG21	1:131:A:ALA:H	4	1.1	0.62	1.23
(1,1359)	1:104:A:VAL:HG11	1:105:A:THR:HA	4	0.96	0.51	1.12
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE2	4	0.9	1.0	0.39
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE3	4	0.9	1.0	0.39
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE2	4	0.9	1.0	0.39
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE3	4	0.9	1.0	0.39
(1,766)	1:77:A:ILE:HG21	1:128:A:VAL:HA	4	0.88	0.66	0.8
(1,1231)	1:96:A:GLN:HG2	1:101:A:VAL:HG11	4	0.85	0.48	0.9
(1,1231)	1:96:A:GLN:HG3	1:101:A:VAL:HG11	4	0.85	0.48	0.9
(1,769)	1:77:A:ILE:HG21	1:131:A:ALA:HB3	4	0.8	0.45	0.86
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB2	4	0.59	0.41	0.53
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB3	4	0.59	0.41	0.53
(1,1687)	1:125:A:ILE:HG21	1:126:A:ASP:H	4	0.58	0.29	0.68
(1,1358)	1:104:A:VAL:HG11	1:105:A:THR:H	4	0.55	0.29	0.56
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG2	4	0.54	0.55	0.28
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG3	4	0.54	0.55	0.28
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG2	4	0.54	0.55	0.28
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG3	4	0.54	0.55	0.28
(1,511)	1:69:A:LYS:HD2	1:72:A:VAL:HB	4	0.54	0.64	0.19
(1,511)	1:69:A:LYS:HD3	1:72:A:VAL:HB	4	0.54	0.64	0.19
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE2	4	0.53	0.37	0.5
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE3	4	0.53	0.37	0.5
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB2	4	0.49	0.39	0.32
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB3	4	0.49	0.39	0.32
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB2	4	0.49	0.39	0.32
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB3	4	0.49	0.39	0.32
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE2	4	0.47	0.33	0.4
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE3	4	0.47	0.33	0.4

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG2	4	0.47	0.3	0.41
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG3	4	0.47	0.3	0.41
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD2	4	0.46	0.29	0.4
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD3	4	0.46	0.29	0.4
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD2	4	0.46	0.29	0.4
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD3	4	0.46	0.29	0.4
(1,2161)	1:153:A:ILE:HB	1:153:A:ILE:HG21	4	0.45	0.19	0.56
(1,607)	1:72:A:VAL:HA	1:75:A:ARG:HA	4	0.44	0.3	0.38
(1,630)	1:72:A:VAL:HG21	1:123:A:VAL:HA	4	0.42	0.37	0.27
(1,1978)	1:139:A:LEU:HG	1:144:A:LEU:HG	4	0.42	0.38	0.24
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG2	4	0.4	0.32	0.25
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG3	4	0.4	0.32	0.25
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG2	4	0.4	0.32	0.25
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG3	4	0.4	0.32	0.25
(1,384)	1:64:A:ALA:HB3	1:65:A:THR:HA	4	0.39	0.45	0.14
(1,1285)	1:101:A:VAL:HB	1:120:A:VAL:HB	4	0.39	0.34	0.24
(1,379)	1:64:A:ALA:HA	1:68:A:GLU:H	4	0.34	0.18	0.32
(1,1922)	1:137:A:THR:H	1:137:A:THR:HB	4	0.32	0.25	0.24
(1,140)	1:48:A:LYS:HG2	1:52:A:GLU:H	4	0.32	0.22	0.22
(1,140)	1:48:A:LYS:HG3	1:52:A:GLU:H	4	0.32	0.22	0.22
(1,2142)	1:151:A:THR:HB	1:151:A:THR:HG21	4	0.32	0.2	0.32
(1,1316)	1:102:A:ASN:HB2	1:121:A:GLU:HA	4	0.31	0.27	0.16
(1,1316)	1:102:A:ASN:HB3	1:121:A:GLU:HA	4	0.31	0.27	0.16
(1,1790)	1:130:A:ASN:HA	1:133:A:LEU:HG	4	0.28	0.12	0.24
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD2	4	0.27	0.07	0.26
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD3	4	0.27	0.07	0.26
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD2	4	0.27	0.11	0.26
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD3	4	0.27	0.11	0.26
(1,1218)	1:96:A:GLN:HA	1:101:A:VAL:HB	4	0.26	0.2	0.16
(1,959)	1:83:A:ASP:HB2	1:140:A:HIS:HA	4	0.24	0.04	0.26
(1,959)	1:83:A:ASP:HB3	1:140:A:HIS:HA	4	0.24	0.04	0.26
(1,1908)	1:136:A:GLU:HB2	1:144:A:LEU:HA	4	0.22	0.1	0.22
(1,1908)	1:136:A:GLU:HB3	1:144:A:LEU:HA	4	0.22	0.1	0.22
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD2	4	0.22	0.06	0.22
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD3	4	0.22	0.06	0.22
(1,871)	1:80:A:GLY:H	1:146:A:VAL:HA	4	0.21	0.1	0.18
(1,1775)	1:129:A:GLN:HG2	1:133:A:LEU:HD11	4	0.21	0.07	0.24
(1,1775)	1:129:A:GLN:HG3	1:133:A:LEU:HD11	4	0.21	0.07	0.24
(1,749)	1:77:A:ILE:HB	1:147:A:SER:H	4	0.21	0.11	0.16
(1,54)	1:45:A:MET:H	1:45:A:MET:HB2	4	0.2	0.11	0.15
(1,54)	1:45:A:MET:H	1:45:A:MET:HB3	4	0.2	0.11	0.15
(1,458)	1:68:A:GLU:HA	1:70:A:GLU:H	4	0.2	0.06	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,588)	1:72:A:VAL:H	1:72:A:VAL:HB	4	0.2	0.14	0.12
(1,1191)	1:95:A:PHE:HA	1:131:A:ALA:HA	4	0.2	0.1	0.16
(1,659)	1:74:A:SER:HA	1:151:A:THR:HB	4	0.2	0.05	0.22
(1,1217)	1:96:A:GLN:HA	1:101:A:VAL:H	4	0.19	0.03	0.19
(1,1991)	1:140:A:HIS:HD2	1:142:A:ARG:H	4	0.19	0.03	0.2
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG2	4	0.18	0.03	0.18
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG3	4	0.18	0.03	0.18
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB2	4	0.18	0.05	0.18
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB3	4	0.18	0.05	0.18
(1,1170)	1:93:A:GLN:HA	1:96:A:GLN:HA	4	0.18	0.05	0.2
(1,836)	1:79:A:VAL:HA	1:147:A:SER:H	4	0.18	0.04	0.18
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB2	4	0.17	0.05	0.16
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB3	4	0.17	0.05	0.16
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG2	4	0.17	0.04	0.16
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG3	4	0.17	0.04	0.16
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG2	4	0.17	0.04	0.16
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG3	4	0.17	0.04	0.16
(1,560)	1:71:A:GLU:HA	1:75:A:ARG:H	4	0.17	0.03	0.17
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG2	4	0.17	0.03	0.16
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG3	4	0.17	0.03	0.16
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB2	4	0.16	0.05	0.16
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB3	4	0.16	0.05	0.16
(1,1552)	1:114:A:PRO:HG2	1:115:A:LYS:HA	4	0.16	0.04	0.16
(1,1552)	1:114:A:PRO:HG3	1:115:A:LYS:HA	4	0.16	0.04	0.16
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB2	4	0.16	0.03	0.16
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB3	4	0.16	0.03	0.16
(1,1971)	1:139:A:LEU:HA	1:141:A:GLY:H	4	0.16	0.02	0.16
(1,1988)	1:140:A:HIS:HA	1:141:A:GLY:H	4	0.16	0.05	0.16
(1,1485)	1:109:A:ASP:HB2	1:117:A:PHE:H	4	0.16	0.04	0.16
(1,1485)	1:109:A:ASP:HB3	1:117:A:PHE:H	4	0.16	0.04	0.16
(1,1377)	1:105:A:THR:HB	1:119:A:TYR:H	4	0.16	0.03	0.16
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB2	4	0.15	0.02	0.16
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB3	4	0.15	0.02	0.16
(1,612)	1:72:A:VAL:HB	1:73:A:ASP:H	4	0.15	0.03	0.15
(1,922)	1:82:A:VAL:HA	1:145:A:LYS:H	4	0.15	0.05	0.14
(1,498)	1:69:A:LYS:HB2	1:70:A:GLU:H	4	0.15	0.02	0.15
(1,498)	1:69:A:LYS:HB3	1:70:A:GLU:H	4	0.15	0.02	0.15
(1,669)	1:75:A:ARG:H	1:121:A:GLU:HA	4	0.14	0.02	0.15
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG2	4	0.14	0.02	0.15
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG3	4	0.14	0.02	0.15
(1,1919)	1:136:A:GLU:HG2	1:146:A:VAL:HB	4	0.14	0.03	0.13
(1,1919)	1:136:A:GLU:HG3	1:146:A:VAL:HB	4	0.14	0.03	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG2	4	0.14	0.05	0.12
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG3	4	0.14	0.05	0.12
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB2	4	0.14	0.04	0.12
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB3	4	0.14	0.04	0.12
(1,448)	1:67:A:ALA:HA	1:70:A:GLU:H	4	0.14	0.03	0.13
(1,1704)	1:126:A:ASP:HA	1:129:A:GLN:H	4	0.14	0.02	0.13
(1,1805)	1:131:A:ALA:HA	1:133:A:LEU:H	4	0.13	0.01	0.14
(1,441)	1:67:A:ALA:H	1:69:A:LYS:H	4	0.12	0.02	0.12
(1,2026)	1:144:A:LEU:H	1:145:A:LYS:HA	4	0.12	0.01	0.12
(1,1942)	1:138:A:GLU:H	1:139:A:LEU:HA	4	0.12	0.01	0.11
(1,334)	1:61:A:SER:H	1:62:A:THR:HA	4	0.11	0.02	0.11
(1,789)	1:78:A:TYR:H	1:148:A:ALA:H	4	0.11	0.01	0.11
(1,768)	1:77:A:ILE:HG21	1:131:A:ALA:HA	3	1.79	0.06	1.78
(1,857)	1:79:A:VAL:HG11	1:146:A:VAL:HG11	3	1.64	0.89	2.25
(1,857)	1:79:A:VAL:HG11	1:146:A:VAL:HG21	3	1.64	0.89	2.25
(1,1834)	1:132:A:LEU:HB2	1:148:A:ALA:H	3	1.32	0.73	1.64
(1,1834)	1:132:A:LEU:HB3	1:148:A:ALA:H	3	1.32	0.73	1.64
(1,1748)	1:128:A:VAL:HG21	1:131:A:ALA:HB3	3	1.16	0.25	1.08
(1,1693)	1:125:A:ILE:HG21	1:129:A:GLN:HG2	3	0.95	0.18	0.9
(1,1693)	1:125:A:ILE:HG21	1:129:A:GLN:HG3	3	0.95	0.18	0.9
(1,1227)	1:96:A:GLN:HB2	1:101:A:VAL:HG11	3	0.91	0.5	0.85
(1,1227)	1:96:A:GLN:HB3	1:101:A:VAL:HG11	3	0.91	0.5	0.85
(1,1744)	1:128:A:VAL:HG11	1:132:A:LEU:H	3	0.91	0.57	1.18
(1,1843)	1:133:A:LEU:HA	1:133:A:LEU:HD11	3	0.86	0.34	0.67
(1,314)	1:58:A:ASP:HB2	1:61:A:SER:HB2	3	0.8	0.48	0.92
(1,314)	1:58:A:ASP:HB2	1:61:A:SER:HB3	3	0.8	0.48	0.92
(1,314)	1:58:A:ASP:HB3	1:61:A:SER:HB2	3	0.8	0.48	0.92
(1,314)	1:58:A:ASP:HB3	1:61:A:SER:HB3	3	0.8	0.48	0.92
(1,2114)	1:149:A:LYS:HG2	1:151:A:THR:HB	3	0.79	0.54	0.45
(1,2114)	1:149:A:LYS:HG3	1:151:A:THR:HB	3	0.79	0.54	0.45
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB2	3	0.72	0.55	0.43
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB3	3	0.72	0.55	0.43
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB2	3	0.72	0.55	0.43
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB3	3	0.72	0.55	0.43
(1,976)	1:84:A:TYR:HA	1:115:A:LYS:H	3	0.69	0.22	0.82
(1,1909)	1:136:A:GLU:HB2	1:144:A:LEU:HD11	3	0.69	0.77	0.15
(1,1909)	1:136:A:GLU:HB3	1:144:A:LEU:HD11	3	0.69	0.77	0.15
(1,974)	1:84:A:TYR:HA	1:114:A:PRO:HA	3	0.62	0.24	0.68
(1,1504)	1:110:A:LYS:HD2	1:115:A:LYS:HE2	3	0.6	0.34	0.75
(1,1504)	1:110:A:LYS:HD2	1:115:A:LYS:HE3	3	0.6	0.34	0.75
(1,1504)	1:110:A:LYS:HD3	1:115:A:LYS:HE2	3	0.6	0.34	0.75
(1,1504)	1:110:A:LYS:HD3	1:115:A:LYS:HE3	3	0.6	0.34	0.75

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1601)	1:120:A:VAL:HA	1:120:A:VAL:HG11	3	0.6	0.0	0.6
(1,618)	1:72:A:VAL:HG11	1:121:A:GLU:HA	3	0.58	0.42	0.4
(1,1848)	1:133:A:LEU:HG	1:133:A:LEU:HD11	3	0.57	0.0	0.57
(1,494)	1:69:A:LYS:HA	1:73:A:ASP:HB2	3	0.57	0.33	0.58
(1,494)	1:69:A:LYS:HA	1:73:A:ASP:HB3	3	0.57	0.33	0.58
(1,1586)	1:118:A:ALA:HA	1:118:A:ALA:HB3	3	0.55	0.0	0.55
(1,975)	1:84:A:TYR:HA	1:114:A:PRO:HB2	3	0.53	0.11	0.53
(1,975)	1:84:A:TYR:HA	1:114:A:PRO:HB3	3	0.53	0.11	0.53
(1,619)	1:72:A:VAL:HG11	1:121:A:GLU:HB2	3	0.53	0.33	0.36
(1,619)	1:72:A:VAL:HG11	1:121:A:GLU:HB3	3	0.53	0.33	0.36
(1,1994)	1:140:A:HIS:HB2	1:142:A:ARG:HD2	3	0.53	0.23	0.55
(1,1994)	1:140:A:HIS:HB2	1:142:A:ARG:HD3	3	0.53	0.23	0.55
(1,1994)	1:140:A:HIS:HB3	1:142:A:ARG:HD2	3	0.53	0.23	0.55
(1,1994)	1:140:A:HIS:HB3	1:142:A:ARG:HD3	3	0.53	0.23	0.55
(1,851)	1:79:A:VAL:HG11	1:136:A:GLU:HB2	3	0.52	0.11	0.56
(1,851)	1:79:A:VAL:HG11	1:136:A:GLU:HB3	3	0.52	0.11	0.56
(1,1893)	1:136:A:GLU:HA	1:137:A:THR:HB	3	0.49	0.32	0.44
(1,41)	1:43:A:ARG:HA	1:45:A:MET:HG2	3	0.46	0.4	0.21
(1,41)	1:43:A:ARG:HA	1:45:A:MET:HG3	3	0.46	0.4	0.21
(1,852)	1:79:A:VAL:HG11	1:144:A:LEU:HD11	3	0.44	0.1	0.51
(1,510)	1:69:A:LYS:HD2	1:72:A:VAL:H	3	0.43	0.39	0.18
(1,510)	1:69:A:LYS:HD3	1:72:A:VAL:H	3	0.43	0.39	0.18
(1,1503)	1:110:A:LYS:HD2	1:115:A:LYS:HD2	3	0.42	0.35	0.19
(1,1503)	1:110:A:LYS:HD2	1:115:A:LYS:HD3	3	0.42	0.35	0.19
(1,1503)	1:110:A:LYS:HD3	1:115:A:LYS:HD2	3	0.42	0.35	0.19
(1,1503)	1:110:A:LYS:HD3	1:115:A:LYS:HD3	3	0.42	0.35	0.19
(1,1446)	1:108:A:THR:HA	1:115:A:LYS:HB2	3	0.41	0.09	0.39
(1,1446)	1:108:A:THR:HA	1:115:A:LYS:HB3	3	0.41	0.09	0.39
(1,625)	1:72:A:VAL:HG11	1:73:A:ASP:HA	3	0.4	0.33	0.2
(1,219)	1:52:A:GLU:HB2	1:53:A:MET:HG2	3	0.39	0.29	0.22
(1,219)	1:52:A:GLU:HB2	1:53:A:MET:HG3	3	0.39	0.29	0.22
(1,219)	1:52:A:GLU:HB3	1:53:A:MET:HG2	3	0.39	0.29	0.22
(1,219)	1:52:A:GLU:HB3	1:53:A:MET:HG3	3	0.39	0.29	0.22
(1,1155)	1:92:A:GLN:HB2	1:120:A:VAL:HB	3	0.35	0.12	0.42
(1,1155)	1:92:A:GLN:HB3	1:120:A:VAL:HB	3	0.35	0.12	0.42
(1,1226)	1:96:A:GLN:HB2	1:101:A:VAL:HB	3	0.34	0.24	0.22
(1,1226)	1:96:A:GLN:HB3	1:101:A:VAL:HB	3	0.34	0.24	0.22
(1,748)	1:77:A:ILE:HB	1:146:A:VAL:HG11	3	0.33	0.29	0.13
(1,1020)	1:86:A:CYS:HB2	1:116:A:GLY:HA2	3	0.32	0.16	0.39
(1,1020)	1:86:A:CYS:HB2	1:116:A:GLY:HA3	3	0.32	0.16	0.39
(1,1020)	1:86:A:CYS:HB3	1:116:A:GLY:HA2	3	0.32	0.16	0.39
(1,1020)	1:86:A:CYS:HB3	1:116:A:GLY:HA3	3	0.32	0.16	0.39

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,807)	1:78:A:TYR:HA	1:79:A:VAL:HG21	3	0.3	0.05	0.31
(1,961)	1:83:A:ASP:HB2	1:142:A:ARG:HB2	3	0.3	0.09	0.24
(1,961)	1:83:A:ASP:HB2	1:142:A:ARG:HB3	3	0.3	0.09	0.24
(1,961)	1:83:A:ASP:HB3	1:142:A:ARG:HB2	3	0.3	0.09	0.24
(1,961)	1:83:A:ASP:HB3	1:142:A:ARG:HB3	3	0.3	0.09	0.24
(1,1081)	1:89:A:GLU:HG2	1:92:A:GLN:HG2	3	0.28	0.16	0.19
(1,1081)	1:89:A:GLU:HG2	1:92:A:GLN:HG3	3	0.28	0.16	0.19
(1,1081)	1:89:A:GLU:HG3	1:92:A:GLN:HG2	3	0.28	0.16	0.19
(1,1081)	1:89:A:GLU:HG3	1:92:A:GLN:HG3	3	0.28	0.16	0.19
(1,312)	1:58:A:ASP:HB2	1:59:A:SER:HA	3	0.27	0.15	0.21
(1,312)	1:58:A:ASP:HB3	1:59:A:SER:HA	3	0.27	0.15	0.21
(1,3)	1:41:A:ALA:H	1:43:A:ARG:HB2	3	0.25	0.1	0.28
(1,3)	1:41:A:ALA:H	1:43:A:ARG:HB3	3	0.25	0.1	0.28
(1,1789)	1:130:A:ASN:HA	1:133:A:LEU:HA	3	0.25	0.13	0.23
(1,512)	1:69:A:LYS:HD2	1:72:A:VAL:HG11	3	0.24	0.16	0.13
(1,512)	1:69:A:LYS:HD3	1:72:A:VAL:HG11	3	0.24	0.16	0.13
(1,512)	1:69:A:LYS:HD2	1:72:A:VAL:HG21	3	0.24	0.16	0.13
(1,512)	1:69:A:LYS:HD3	1:72:A:VAL:HG21	3	0.24	0.16	0.13
(1,1791)	1:130:A:ASN:HA	1:133:A:LEU:HB2	3	0.24	0.09	0.28
(1,1791)	1:130:A:ASN:HA	1:133:A:LEU:HB3	3	0.24	0.09	0.28
(1,1857)	1:134:A:LEU:H	1:134:A:LEU:HG	3	0.24	0.12	0.16
(1,410)	1:65:A:THR:HB	1:66:A:GLN:HB2	3	0.23	0.17	0.12
(1,410)	1:65:A:THR:HB	1:66:A:GLN:HB3	3	0.23	0.17	0.12
(1,797)	1:78:A:TYR:HA	1:119:A:TYR:HA	3	0.23	0.01	0.22
(1,380)	1:64:A:ALA:HA	1:68:A:GLU:HA	3	0.22	0.07	0.21
(1,38)	1:43:A:ARG:HA	1:43:A:ARG:HG2	3	0.22	0.01	0.21
(1,38)	1:43:A:ARG:HA	1:43:A:ARG:HG3	3	0.22	0.01	0.21
(1,1320)	1:102:A:ASN:HB2	1:123:A:VAL:H	3	0.21	0.09	0.2
(1,1320)	1:102:A:ASN:HB3	1:123:A:VAL:H	3	0.21	0.09	0.2
(1,4)	1:41:A:ALA:H	1:45:A:MET:HG2	3	0.21	0.04	0.22
(1,4)	1:41:A:ALA:H	1:45:A:MET:HG3	3	0.21	0.04	0.22
(1,27)	1:42:A:LEU:HG	1:43:A:ARG:HB2	3	0.21	0.1	0.16
(1,27)	1:42:A:LEU:HG	1:43:A:ARG:HB3	3	0.21	0.1	0.16
(1,578)	1:71:A:GLU:HG2	1:72:A:VAL:H	3	0.2	0.03	0.2
(1,578)	1:71:A:GLU:HG3	1:72:A:VAL:H	3	0.2	0.03	0.2
(1,141)	1:48:A:LYS:HG2	1:52:A:GLU:HG2	3	0.2	0.07	0.24
(1,141)	1:48:A:LYS:HG2	1:52:A:GLU:HG3	3	0.2	0.07	0.24
(1,141)	1:48:A:LYS:HG3	1:52:A:GLU:HG2	3	0.2	0.07	0.24
(1,141)	1:48:A:LYS:HG3	1:52:A:GLU:HG3	3	0.2	0.07	0.24
(1,1847)	1:133:A:LEU:HD11	1:134:A:LEU:H	3	0.2	0.07	0.25
(1,812)	1:78:A:TYR:HB2	1:119:A:TYR:HB2	3	0.2	0.04	0.21
(1,812)	1:78:A:TYR:HB2	1:119:A:TYR:HB3	3	0.2	0.04	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,812)	1:78:A:TYR:HB3	1:119:A:TYR:HB2	3	0.2	0.04	0.21
(1,812)	1:78:A:TYR:HB3	1:119:A:TYR:HB3	3	0.2	0.04	0.21
(1,179)	1:50:A:GLU:HA	1:53:A:MET:H	3	0.19	0.02	0.2
(1,261)	1:56:A:VAL:H	1:60:A:SER:H	3	0.19	0.04	0.2
(1,517)	1:69:A:LYS:HE2	1:73:A:ASP:HB2	3	0.19	0.04	0.22
(1,517)	1:69:A:LYS:HE2	1:73:A:ASP:HB3	3	0.19	0.04	0.22
(1,517)	1:69:A:LYS:HE3	1:73:A:ASP:HB2	3	0.19	0.04	0.22
(1,517)	1:69:A:LYS:HE3	1:73:A:ASP:HB3	3	0.19	0.04	0.22
(1,579)	1:71:A:GLU:HG2	1:72:A:VAL:HA	3	0.19	0.03	0.18
(1,579)	1:71:A:GLU:HG3	1:72:A:VAL:HA	3	0.19	0.03	0.18
(1,1184)	1:94:A:HIS:HA	1:96:A:GLN:H	3	0.19	0.06	0.16
(1,1595)	1:119:A:TYR:HB2	1:149:A:LYS:HD2	3	0.19	0.02	0.19
(1,1595)	1:119:A:TYR:HB2	1:149:A:LYS:HD3	3	0.19	0.02	0.19
(1,1595)	1:119:A:TYR:HB3	1:149:A:LYS:HD2	3	0.19	0.02	0.19
(1,1595)	1:119:A:TYR:HB3	1:149:A:LYS:HD3	3	0.19	0.02	0.19
(1,1879)	1:135:A:ASN:HB2	1:136:A:GLU:HG2	3	0.19	0.05	0.2
(1,1879)	1:135:A:ASN:HB2	1:136:A:GLU:HG3	3	0.19	0.05	0.2
(1,1879)	1:135:A:ASN:HB3	1:136:A:GLU:HG2	3	0.19	0.05	0.2
(1,1879)	1:135:A:ASN:HB3	1:136:A:GLU:HG3	3	0.19	0.05	0.2
(1,2111)	1:149:A:LYS:HG2	1:149:A:LYS:HE2	3	0.19	0.09	0.12
(1,2111)	1:149:A:LYS:HG2	1:149:A:LYS:HE3	3	0.19	0.09	0.12
(1,2111)	1:149:A:LYS:HG3	1:149:A:LYS:HE2	3	0.19	0.09	0.12
(1,2111)	1:149:A:LYS:HG3	1:149:A:LYS:HE3	3	0.19	0.09	0.12
(1,1676)	1:125:A:ILE:HA	1:129:A:GLN:H	3	0.18	0.05	0.16
(1,2005)	1:142:A:ARG:HA	1:143:A:GLN:H	3	0.18	0.04	0.2
(1,2100)	1:149:A:LYS:HA	1:150:A:ARG:H	3	0.18	0.05	0.15
(1,178)	1:50:A:GLU:HA	1:52:A:GLU:H	3	0.17	0.05	0.18
(1,750)	1:77:A:ILE:HB	1:147:A:SER:HA	3	0.17	0.06	0.13
(1,960)	1:83:A:ASP:HB2	1:140:A:HIS:HB2	3	0.17	0.02	0.16
(1,960)	1:83:A:ASP:HB2	1:140:A:HIS:HB3	3	0.17	0.02	0.16
(1,960)	1:83:A:ASP:HB3	1:140:A:HIS:HB2	3	0.17	0.02	0.16
(1,960)	1:83:A:ASP:HB3	1:140:A:HIS:HB3	3	0.17	0.02	0.16
(1,1802)	1:131:A:ALA:H	1:133:A:LEU:H	3	0.17	0.05	0.18
(1,1955)	1:138:A:GLU:HG2	1:139:A:LEU:H	3	0.17	0.01	0.17
(1,1955)	1:138:A:GLU:HG3	1:139:A:LEU:H	3	0.17	0.01	0.17
(1,725)	1:77:A:ILE:H	1:149:A:LYS:H	3	0.17	0.04	0.14
(1,1416)	1:106:A:ILE:HG12	1:117:A:PHE:HB2	3	0.17	0.05	0.16
(1,1416)	1:106:A:ILE:HG12	1:117:A:PHE:HB3	3	0.17	0.05	0.16
(1,1416)	1:106:A:ILE:HG13	1:117:A:PHE:HB2	3	0.17	0.05	0.16
(1,1416)	1:106:A:ILE:HG13	1:117:A:PHE:HB3	3	0.17	0.05	0.16
(1,2)	1:41:A:ALA:H	1:42:A:LEU:HA	3	0.16	0.03	0.15
(1,1952)	1:138:A:GLU:HA	1:144:A:LEU:H	3	0.16	0.03	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1965)	1:139:A:LEU:H	1:142:A:ARG:HA	3	0.15	0.04	0.13
(1,501)	1:69:A:LYS:HB2	1:70:A:GLU:HG2	3	0.14	0.02	0.14
(1,501)	1:69:A:LYS:HB2	1:70:A:GLU:HG3	3	0.14	0.02	0.14
(1,501)	1:69:A:LYS:HB3	1:70:A:GLU:HG2	3	0.14	0.02	0.14
(1,501)	1:69:A:LYS:HB3	1:70:A:GLU:HG3	3	0.14	0.02	0.14
(1,825)	1:79:A:VAL:H	1:118:A:ALA:HA	3	0.14	0.01	0.14
(1,499)	1:69:A:LYS:HB2	1:70:A:GLU:HA	3	0.14	0.02	0.14
(1,499)	1:69:A:LYS:HB3	1:70:A:GLU:HA	3	0.14	0.02	0.14
(1,988)	1:84:A:TYR:HA	1:86:A:CYS:H	3	0.14	0.01	0.14
(1,1018)	1:86:A:CYS:HA	1:90:A:GLU:HG2	3	0.14	0.01	0.15
(1,1018)	1:86:A:CYS:HA	1:90:A:GLU:HG3	3	0.14	0.01	0.15
(1,1305)	1:102:A:ASN:H	1:121:A:GLU:H	3	0.14	0.02	0.15
(1,1240)	1:98:A:CYS:H	1:98:A:CYS:HB2	3	0.14	0.04	0.12
(1,1240)	1:98:A:CYS:H	1:98:A:CYS:HB3	3	0.14	0.04	0.12
(1,2153)	1:153:A:ILE:H	1:153:A:ILE:HG21	3	0.14	0.04	0.12
(1,950)	1:83:A:ASP:H	1:86:A:CYS:H	3	0.14	0.03	0.13
(1,1215)	1:96:A:GLN:HA	1:100:A:THR:H	3	0.14	0.01	0.14
(1,2101)	1:149:A:LYS:HA	1:150:A:ARG:HA	3	0.14	0.02	0.13
(1,1034)	1:87:A:THR:HA	1:90:A:GLU:HG2	3	0.13	0.02	0.13
(1,1034)	1:87:A:THR:HA	1:90:A:GLU:HG3	3	0.13	0.02	0.13
(1,1424)	1:107:A:LEU:H	1:118:A:ALA:HA	3	0.13	0.02	0.13
(1,1985)	1:140:A:HIS:H	1:141:A:GLY:H	3	0.13	0.02	0.14
(1,1997)	1:141:A:GLY:H	1:142:A:ARG:HA	3	0.13	0.02	0.14
(1,664)	1:74:A:SER:HA	1:75:A:ARG:HD2	3	0.13	0.02	0.14
(1,664)	1:74:A:SER:HA	1:75:A:ARG:HD3	3	0.13	0.02	0.14
(1,94)	1:46:A:GLN:HB2	1:48:A:LYS:H	3	0.13	0.01	0.13
(1,103)	1:47:A:ALA:H	1:48:A:LYS:H	3	0.13	0.01	0.12
(1,519)	1:69:A:LYS:HG2	1:70:A:GLU:H	3	0.12	0.01	0.12
(1,519)	1:69:A:LYS:HG3	1:70:A:GLU:H	3	0.12	0.01	0.12
(1,595)	1:72:A:VAL:H	1:75:A:ARG:H	3	0.12	0.0	0.12
(1,1271)	1:101:A:VAL:H	1:101:A:VAL:HB	3	0.12	0.01	0.12
(1,2078)	1:148:A:ALA:H	1:148:A:ALA:HA	3	0.12	0.01	0.12
(1,1830)	1:132:A:LEU:HB2	1:133:A:LEU:H	3	0.12	0.01	0.12
(1,1830)	1:132:A:LEU:HB3	1:133:A:LEU:H	3	0.12	0.01	0.12
(1,1148)	1:92:A:GLN:HA	1:93:A:GLN:H	3	0.11	0.01	0.11
(1,209)	1:51:A:LYS:HG2	1:52:A:GLU:H	3	0.11	0.0	0.11
(1,209)	1:51:A:LYS:HG3	1:52:A:GLU:H	3	0.11	0.0	0.11
(1,1510)	1:111:A:PHE:H	1:113:A:GLN:HB2	3	0.11	0.01	0.1
(1,1510)	1:111:A:PHE:H	1:113:A:GLN:HB3	3	0.11	0.01	0.1
(1,1833)	1:132:A:LEU:HB2	1:147:A:SER:HA	2	1.71	0.2	1.71
(1,1833)	1:132:A:LEU:HB3	1:147:A:SER:HA	2	1.71	0.2	1.71
(1,745)	1:77:A:ILE:HB	1:132:A:LEU:HB2	2	1.46	0.8	1.46

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,745)	1:77:A:ILE:HB	1:132:A:LEU:HB3	2	1.46	0.8	1.46
(1,1835)	1:132:A:LEU:HB2	1:148:A:ALA:HA	2	1.4	0.61	1.4
(1,1835)	1:132:A:LEU:HB3	1:148:A:ALA:HA	2	1.4	0.61	1.4
(1,628)	1:72:A:VAL:HG21	1:122:A:PHE:HA	2	1.19	0.07	1.19
(1,629)	1:72:A:VAL:HG21	1:123:A:VAL:H	2	1.17	0.22	1.17
(1,1678)	1:125:A:ILE:HB	1:125:A:ILE:HD11	2	1.1	0.01	1.1
(1,1461)	1:108:A:THR:HG21	1:116:A:GLY:H	2	1.05	0.83	1.05
(1,1208)	1:96:A:GLN:H	1:101:A:VAL:HG11	2	0.99	0.85	0.99
(1,507)	1:69:A:LYS:HB2	1:73:A:ASP:HB2	2	0.92	0.11	0.92
(1,507)	1:69:A:LYS:HB2	1:73:A:ASP:HB3	2	0.92	0.11	0.92
(1,507)	1:69:A:LYS:HB3	1:73:A:ASP:HB2	2	0.92	0.11	0.92
(1,507)	1:69:A:LYS:HB3	1:73:A:ASP:HB3	2	0.92	0.11	0.92
(1,621)	1:72:A:VAL:HG11	1:122:A:PHE:HA	2	0.9	0.22	0.9
(1,238)	1:55:A:ALA:H	1:59:A:SER:HB2	2	0.88	0.2	0.88
(1,238)	1:55:A:ALA:H	1:59:A:SER:HB3	2	0.88	0.2	0.88
(1,620)	1:72:A:VAL:HG11	1:122:A:PHE:H	2	0.88	0.49	0.88
(1,1917)	1:136:A:GLU:HG2	1:144:A:LEU:HD11	2	0.88	0.76	0.88
(1,1917)	1:136:A:GLU:HG3	1:144:A:LEU:HD11	2	0.88	0.76	0.88
(1,1897)	1:136:A:GLU:HA	1:144:A:LEU:HD11	2	0.8	0.64	0.8
(1,1206)	1:95:A:PHE:HE2	1:146:A:VAL:HG21	2	0.78	0.5	0.78
(1,84)	1:46:A:GLN:H	1:47:A:ALA:HB3	2	0.76	0.58	0.76
(1,1743)	1:128:A:VAL:HG11	1:131:A:ALA:H	2	0.76	0.07	0.76
(1,1284)	1:101:A:VAL:HB	1:120:A:VAL:HA	2	0.72	0.29	0.72
(1,622)	1:72:A:VAL:HG11	1:122:A:PHE:HB2	2	0.66	0.05	0.66
(1,622)	1:72:A:VAL:HG11	1:122:A:PHE:HB3	2	0.66	0.05	0.66
(1,616)	1:72:A:VAL:HG11	1:102:A:ASN:HB2	2	0.63	0.5	0.63
(1,616)	1:72:A:VAL:HG11	1:102:A:ASN:HB3	2	0.63	0.5	0.63
(1,1669)	1:125:A:ILE:HA	1:125:A:ILE:HG21	2	0.62	0.02	0.62
(1,763)	1:77:A:ILE:HD11	1:146:A:VAL:HG11	2	0.62	0.48	0.62
(1,763)	1:77:A:ILE:HD11	1:146:A:VAL:HG21	2	0.62	0.48	0.62
(1,185)	1:50:A:GLU:HB2	1:51:A:LYS:HG2	2	0.62	0.01	0.62
(1,185)	1:50:A:GLU:HB2	1:51:A:LYS:HG3	2	0.62	0.01	0.62
(1,185)	1:50:A:GLU:HB3	1:51:A:LYS:HG2	2	0.62	0.01	0.62
(1,185)	1:50:A:GLU:HB3	1:51:A:LYS:HG3	2	0.62	0.01	0.62
(1,615)	1:72:A:VAL:HB	1:75:A:ARG:HB2	2	0.6	0.09	0.6
(1,615)	1:72:A:VAL:HB	1:75:A:ARG:HB3	2	0.6	0.09	0.6
(1,35)	1:43:A:ARG:H	1:46:A:GLN:HG2	2	0.57	0.4	0.57
(1,35)	1:43:A:ARG:H	1:46:A:GLN:HG3	2	0.57	0.4	0.57
(1,55)	1:45:A:MET:H	1:45:A:MET:HG2	2	0.55	0.41	0.55
(1,55)	1:45:A:MET:H	1:45:A:MET:HG3	2	0.55	0.41	0.55
(1,776)	1:77:A:ILE:HG21	1:77:A:ILE:HG12	2	0.55	0.01	0.55
(1,776)	1:77:A:ILE:HG21	1:77:A:ILE:HG13	2	0.55	0.01	0.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,861)	1:79:A:VAL:HG21	1:120:A:VAL:H	2	0.52	0.08	0.52
(1,22)	1:42:A:LEU:HB2	1:42:A:LEU:HD21	2	0.51	0.01	0.51
(1,22)	1:42:A:LEU:HB3	1:42:A:LEU:HD21	2	0.51	0.01	0.51
(1,561)	1:71:A:GLU:HG2	1:123:A:VAL:HA	2	0.5	0.34	0.5
(1,1505)	1:110:A:LYS:HD2	1:115:A:LYS:HG2	2	0.5	0.07	0.5
(1,1505)	1:110:A:LYS:HD2	1:115:A:LYS:HG3	2	0.5	0.07	0.5
(1,1505)	1:110:A:LYS:HD3	1:115:A:LYS:HG2	2	0.5	0.07	0.5
(1,1505)	1:110:A:LYS:HD3	1:115:A:LYS:HG3	2	0.5	0.07	0.5
(1,1927)	1:137:A:THR:HA	1:137:A:THR:HG21	2	0.47	0.34	0.47
(1,2122)	1:150:A:ARG:HA	1:150:A:ARG:HD2	2	0.44	0.3	0.44
(1,2122)	1:150:A:ARG:HA	1:150:A:ARG:HD3	2	0.44	0.3	0.44
(1,1844)	1:133:A:LEU:HA	1:133:A:LEU:HG	2	0.43	0.06	0.43
(1,1972)	1:139:A:LEU:HD11	1:139:A:LEU:HD21	2	0.42	0.0	0.42
(1,79)	1:45:A:MET:HG2	1:48:A:LYS:HB2	2	0.41	0.28	0.41
(1,79)	1:45:A:MET:HG2	1:48:A:LYS:HB3	2	0.41	0.28	0.41
(1,79)	1:45:A:MET:HG3	1:48:A:LYS:HB2	2	0.41	0.28	0.41
(1,79)	1:45:A:MET:HG3	1:48:A:LYS:HB3	2	0.41	0.28	0.41
(1,333)	1:60:A:SER:HB2	1:63:A:SER:HB2	2	0.38	0.26	0.38
(1,333)	1:60:A:SER:HB2	1:63:A:SER:HB3	2	0.38	0.26	0.38
(1,333)	1:60:A:SER:HB3	1:63:A:SER:HB2	2	0.38	0.26	0.38
(1,333)	1:60:A:SER:HB3	1:63:A:SER:HB3	2	0.38	0.26	0.38
(1,411)	1:65:A:THR:HB	1:69:A:LYS:HB2	2	0.38	0.01	0.38
(1,411)	1:65:A:THR:HB	1:69:A:LYS:HB3	2	0.38	0.01	0.38
(1,635)	1:73:A:ASP:H	1:75:A:ARG:HB2	2	0.38	0.08	0.38
(1,635)	1:73:A:ASP:H	1:75:A:ARG:HB3	2	0.38	0.08	0.38
(1,46)	1:43:A:ARG:HB2	1:45:A:MET:HA	2	0.38	0.19	0.38
(1,46)	1:43:A:ARG:HB3	1:45:A:MET:HA	2	0.38	0.19	0.38
(1,319)	1:59:A:SER:HA	1:60:A:SER:HB2	2	0.38	0.05	0.38
(1,319)	1:59:A:SER:HA	1:60:A:SER:HB3	2	0.38	0.05	0.38
(1,1517)	1:111:A:PHE:HA	1:113:A:GLN:HG2	2	0.36	0.03	0.36
(1,1517)	1:111:A:PHE:HA	1:113:A:GLN:HG3	2	0.36	0.03	0.36
(1,551)	1:71:A:GLU:H	1:72:A:VAL:HB	2	0.35	0.25	0.35
(1,110)	1:47:A:ALA:HA	1:49:A:VAL:HB	2	0.34	0.05	0.34
(1,516)	1:69:A:LYS:HE2	1:73:A:ASP:HA	2	0.34	0.24	0.34
(1,516)	1:69:A:LYS:HE3	1:73:A:ASP:HA	2	0.34	0.24	0.34
(1,838)	1:79:A:VAL:HA	1:79:A:VAL:HG11	2	0.34	0.0	0.34
(1,838)	1:79:A:VAL:HA	1:79:A:VAL:HG21	2	0.34	0.0	0.34
(1,1321)	1:102:A:ASN:HB2	1:123:A:VAL:HG21	2	0.34	0.11	0.34
(1,1321)	1:102:A:ASN:HB3	1:123:A:VAL:HG21	2	0.34	0.11	0.34
(1,552)	1:71:A:GLU:H	1:73:A:ASP:H	2	0.34	0.13	0.34
(1,1313)	1:102:A:ASN:HB3	1:123:A:VAL:HG21	2	0.34	0.1	0.34
(1,596)	1:72:A:VAL:H	1:75:A:ARG:HB2	2	0.32	0.02	0.32

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,596)	1:72:A:VAL:H	1:75:A:ARG:HB3	2	0.32	0.02	0.32
(1,1306)	1:102:A:ASN:H	1:121:A:GLU:HA	2	0.32	0.08	0.32
(1,1230)	1:96:A:GLN:HG2	1:101:A:VAL:HB	2	0.29	0.07	0.29
(1,1230)	1:96:A:GLN:HG3	1:101:A:VAL:HB	2	0.29	0.07	0.29
(1,1735)	1:128:A:VAL:HA	1:131:A:ALA:HA	2	0.29	0.06	0.29
(1,521)	1:69:A:LYS:HG2	1:73:A:ASP:H	2	0.27	0.08	0.27
(1,521)	1:69:A:LYS:HG3	1:73:A:ASP:H	2	0.27	0.08	0.27
(1,1283)	1:101:A:VAL:HB	1:104:A:VAL:HB	2	0.26	0.03	0.26
(1,1729)	1:128:A:VAL:H	1:131:A:ALA:H	2	0.26	0.0	0.26
(1,1627)	1:123:A:VAL:H	1:123:A:VAL:HB	2	0.25	0.05	0.25
(1,1281)	1:101:A:VAL:HA	1:122:A:PHE:HB2	2	0.24	0.12	0.24
(1,1281)	1:101:A:VAL:HA	1:122:A:PHE:HB3	2	0.24	0.12	0.24
(1,1797)	1:130:A:ASN:HB2	1:133:A:LEU:HB2	2	0.24	0.08	0.24
(1,1797)	1:130:A:ASN:HB2	1:133:A:LEU:HB3	2	0.24	0.08	0.24
(1,1797)	1:130:A:ASN:HB3	1:133:A:LEU:HB2	2	0.24	0.08	0.24
(1,1797)	1:130:A:ASN:HB3	1:133:A:LEU:HB3	2	0.24	0.08	0.24
(1,134)	1:48:A:LYS:HD2	1:51:A:LYS:HB2	2	0.24	0.01	0.24
(1,134)	1:48:A:LYS:HD2	1:51:A:LYS:HB3	2	0.24	0.01	0.24
(1,134)	1:48:A:LYS:HD3	1:51:A:LYS:HB2	2	0.24	0.01	0.24
(1,134)	1:48:A:LYS:HD3	1:51:A:LYS:HB3	2	0.24	0.01	0.24
(1,405)	1:65:A:THR:HA	1:69:A:LYS:HB2	2	0.24	0.05	0.24
(1,405)	1:65:A:THR:HA	1:69:A:LYS:HB3	2	0.24	0.05	0.24
(1,597)	1:72:A:VAL:H	1:75:A:ARG:HD2	2	0.24	0.06	0.24
(1,597)	1:72:A:VAL:H	1:75:A:ARG:HD3	2	0.24	0.06	0.24
(1,1429)	1:107:A:LEU:HA	1:108:A:THR:HB	2	0.24	0.02	0.24
(1,376)	1:64:A:ALA:HA	1:66:A:GLN:H	2	0.24	0.06	0.24
(1,1820)	1:132:A:LEU:HA	1:146:A:VAL:HG11	2	0.24	0.03	0.24
(1,100)	1:46:A:GLN:HB2	1:49:A:VAL:HB	2	0.23	0.0	0.23
(1,100)	1:46:A:GLN:HB3	1:49:A:VAL:HB	2	0.23	0.0	0.23
(1,1566)	1:115:A:LYS:HB2	1:116:A:GLY:H	2	0.23	0.04	0.23
(1,1566)	1:115:A:LYS:HB3	1:116:A:GLY:H	2	0.23	0.04	0.23
(1,875)	1:80:A:GLY:H	1:82:A:VAL:HG21	2	0.23	0.06	0.23
(1,1667)	1:125:A:ILE:H	1:125:A:ILE:HG21	2	0.22	0.02	0.22
(1,1437)	1:108:A:THR:H	1:108:A:THR:HB	2	0.22	0.03	0.22
(1,1619)	1:122:A:PHE:HA	1:123:A:VAL:HG21	2	0.22	0.01	0.22
(1,2062)	1:145:A:LYS:HG2	1:146:A:VAL:HB	2	0.22	0.03	0.22
(1,2062)	1:145:A:LYS:HG3	1:146:A:VAL:HB	2	0.22	0.03	0.22
(1,93)	1:46:A:GLN:HB2	1:47:A:ALA:HA	2	0.21	0.02	0.21
(1,347)	1:62:A:THR:HA	1:65:A:THR:HB	2	0.2	0.02	0.2
(1,1272)	1:101:A:VAL:H	1:101:A:VAL:HG11	2	0.2	0.04	0.2
(1,1272)	1:101:A:VAL:H	1:101:A:VAL:HG21	2	0.2	0.04	0.2
(1,2011)	1:142:A:ARG:HG2	1:143:A:GLN:HG2	2	0.2	0.02	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2011)	1:142:A:ARG:HG2	1:143:A:GLN:HG3	2	0.2	0.02	0.2
(1,2011)	1:142:A:ARG:HG3	1:143:A:GLN:HG2	2	0.2	0.02	0.2
(1,2011)	1:142:A:ARG:HG3	1:143:A:GLN:HG3	2	0.2	0.02	0.2
(1,645)	1:73:A:ASP:HB2	1:149:A:LYS:HE2	2	0.2	0.08	0.2
(1,645)	1:73:A:ASP:HB2	1:149:A:LYS:HE3	2	0.2	0.08	0.2
(1,645)	1:73:A:ASP:HB3	1:149:A:LYS:HE2	2	0.2	0.08	0.2
(1,645)	1:73:A:ASP:HB3	1:149:A:LYS:HE3	2	0.2	0.08	0.2
(1,1258)	1:99:A:GLY:HA2	1:127:A:ALA:HB3	2	0.2	0.09	0.2
(1,1258)	1:99:A:GLY:HA3	1:127:A:ALA:HB3	2	0.2	0.09	0.2
(1,192)	1:51:A:LYS:H	1:53:A:MET:H	2	0.2	0.02	0.2
(1,1657)	1:124:A:GLU:HB2	1:126:A:ASP:H	2	0.2	0.04	0.2
(1,1657)	1:124:A:GLU:HB3	1:126:A:ASP:H	2	0.2	0.04	0.2
(1,74)	1:45:A:MET:HB2	1:48:A:LYS:HD2	2	0.2	0.01	0.2
(1,74)	1:45:A:MET:HB2	1:48:A:LYS:HD3	2	0.2	0.01	0.2
(1,74)	1:45:A:MET:HB3	1:48:A:LYS:HD2	2	0.2	0.01	0.2
(1,74)	1:45:A:MET:HB3	1:48:A:LYS:HD3	2	0.2	0.01	0.2
(1,105)	1:47:A:ALA:H	1:48:A:LYS:HB2	2	0.2	0.02	0.2
(1,105)	1:47:A:ALA:H	1:48:A:LYS:HB3	2	0.2	0.02	0.2
(1,946)	1:83:A:ASP:H	1:140:A:HIS:HB2	2	0.2	0.04	0.2
(1,946)	1:83:A:ASP:H	1:140:A:HIS:HB3	2	0.2	0.04	0.2
(1,1006)	1:85:A:ALA:H	1:86:A:CYS:HA	2	0.2	0.01	0.2
(1,90)	1:46:A:GLN:HA	1:48:A:LYS:HB2	2	0.19	0.02	0.19
(1,90)	1:46:A:GLN:HA	1:48:A:LYS:HB3	2	0.19	0.02	0.19
(1,231)	1:53:A:MET:HG2	1:55:A:ALA:H	2	0.19	0.04	0.19
(1,231)	1:53:A:MET:HG3	1:55:A:ALA:H	2	0.19	0.04	0.19
(1,169)	1:50:A:GLU:H	1:50:A:GLU:HB2	2	0.18	0.04	0.18
(1,169)	1:50:A:GLU:H	1:50:A:GLU:HB3	2	0.18	0.04	0.18
(1,1280)	1:101:A:VAL:HA	1:122:A:PHE:HE1	2	0.18	0.04	0.18
(1,1628)	1:123:A:VAL:H	1:123:A:VAL:HG21	2	0.18	0.04	0.18
(1,1641)	1:123:A:VAL:HG21	1:124:A:GLU:H	2	0.18	0.0	0.18
(1,2143)	1:151:A:THR:HB	1:152:A:ASN:H	2	0.18	0.04	0.18
(1,383)	1:64:A:ALA:HA	1:69:A:LYS:HB2	2	0.17	0.03	0.17
(1,383)	1:64:A:ALA:HA	1:69:A:LYS:HB3	2	0.17	0.03	0.17
(1,1122)	1:91:A:VAL:HA	1:94:A:HIS:H	2	0.17	0.04	0.17
(1,1176)	1:93:A:GLN:HG2	1:94:A:HIS:HA	2	0.17	0.01	0.17
(1,1176)	1:93:A:GLN:HG3	1:94:A:HIS:HA	2	0.17	0.01	0.17
(1,1341)	1:103:A:ARG:HG2	1:104:A:VAL:H	2	0.17	0.01	0.17
(1,1341)	1:103:A:ARG:HG3	1:104:A:VAL:H	2	0.17	0.01	0.17
(1,292)	1:57:A:GLN:H	1:57:A:GLN:HB2	2	0.16	0.06	0.16
(1,292)	1:57:A:GLN:H	1:57:A:GLN:HB3	2	0.16	0.06	0.16
(1,520)	1:69:A:LYS:HG2	1:70:A:GLU:HA	2	0.16	0.05	0.16
(1,520)	1:69:A:LYS:HG3	1:70:A:GLU:HA	2	0.16	0.05	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,527)	1:70:A:GLU:H	1:71:A:GLU:H	2	0.16	0.02	0.16
(1,1368)	1:105:A:THR:H	1:119:A:TYR:H	2	0.16	0.04	0.16
(1,1604)	1:120:A:VAL:HA	1:121:A:GLU:HB2	2	0.16	0.01	0.16
(1,1604)	1:120:A:VAL:HA	1:121:A:GLU:HB3	2	0.16	0.01	0.16
(1,1779)	1:130:A:ASN:H	1:131:A:ALA:H	2	0.16	0.04	0.16
(1,1780)	1:130:A:ASN:H	1:131:A:ALA:HA	2	0.16	0.03	0.16
(1,1164)	1:93:A:GLN:H	1:96:A:GLN:H	2	0.16	0.05	0.16
(1,1782)	1:130:A:ASN:H	1:133:A:LEU:H	2	0.16	0.02	0.16
(1,1760)	1:129:A:GLN:H	1:131:A:ALA:H	2	0.15	0.02	0.15
(1,1254)	1:99:A:GLY:H	1:131:A:ALA:H	2	0.15	0.03	0.15
(1,124)	1:48:A:LYS:HA	1:48:A:LYS:HG2	2	0.14	0.03	0.14
(1,124)	1:48:A:LYS:HA	1:48:A:LYS:HG3	2	0.14	0.03	0.14
(1,844)	1:79:A:VAL:HB	1:118:A:ALA:HB3	2	0.14	0.04	0.14
(1,1200)	1:95:A:PHE:HA	1:99:A:GLY:H	2	0.14	0.01	0.14
(1,1607)	1:120:A:VAL:HG11	1:121:A:GLU:H	2	0.14	0.02	0.14
(1,824)	1:79:A:VAL:H	1:118:A:ALA:H	2	0.14	0.02	0.14
(1,917)	1:82:A:VAL:H	1:82:A:VAL:HB	2	0.14	0.02	0.14
(1,401)	1:65:A:THR:HA	1:68:A:GLU:H	2	0.13	0.01	0.13
(1,1366)	1:105:A:THR:H	1:105:A:THR:HB	2	0.13	0.02	0.13
(1,1583)	1:117:A:PHE:HB2	1:118:A:ALA:H	2	0.13	0.02	0.13
(1,1583)	1:117:A:PHE:HB3	1:118:A:ALA:H	2	0.13	0.02	0.13
(1,1613)	1:121:A:GLU:HB2	1:149:A:LYS:HB2	2	0.13	0.01	0.13
(1,1613)	1:121:A:GLU:HB2	1:149:A:LYS:HB3	2	0.13	0.01	0.13
(1,1613)	1:121:A:GLU:HB3	1:149:A:LYS:HB2	2	0.13	0.01	0.13
(1,1613)	1:121:A:GLU:HB3	1:149:A:LYS:HB3	2	0.13	0.01	0.13
(1,1658)	1:124:A:GLU:HB2	1:126:A:ASP:HA	2	0.13	0.01	0.13
(1,1658)	1:124:A:GLU:HB3	1:126:A:ASP:HA	2	0.13	0.01	0.13
(1,1698)	1:126:A:ASP:H	1:129:A:GLN:H	2	0.13	0.0	0.13
(1,1731)	1:128:A:VAL:HA	1:128:A:VAL:HG11	2	0.13	0.01	0.13
(1,1731)	1:128:A:VAL:HA	1:128:A:VAL:HG21	2	0.13	0.01	0.13
(1,720)	1:76:A:SER:HB2	1:149:A:LYS:HA	2	0.12	0.02	0.12
(1,720)	1:76:A:SER:HB3	1:149:A:LYS:HA	2	0.12	0.02	0.12
(1,1074)	1:89:A:GLU:HA	1:93:A:GLN:HG2	2	0.12	0.02	0.12
(1,1074)	1:89:A:GLU:HA	1:93:A:GLN:HG3	2	0.12	0.02	0.12
(1,1433)	1:107:A:LEU:HB2	1:107:A:LEU:HD11	2	0.12	0.01	0.12
(1,1433)	1:107:A:LEU:HB3	1:107:A:LEU:HD11	2	0.12	0.01	0.12
(1,1616)	1:122:A:PHE:HA	1:122:A:PHE:HE1	2	0.12	0.02	0.12
(1,1728)	1:128:A:VAL:H	1:130:A:ASN:H	2	0.12	0.02	0.12
(1,1990)	1:140:A:HIS:HA	1:142:A:ARG:H	2	0.12	0.01	0.12
(1,275)	1:56:A:VAL:HB	1:57:A:GLN:H	2	0.12	0.01	0.12
(1,970)	1:84:A:TYR:H	1:84:A:TYR:HB2	2	0.12	0.01	0.12
(1,970)	1:84:A:TYR:H	1:84:A:TYR:HB3	2	0.12	0.01	0.12

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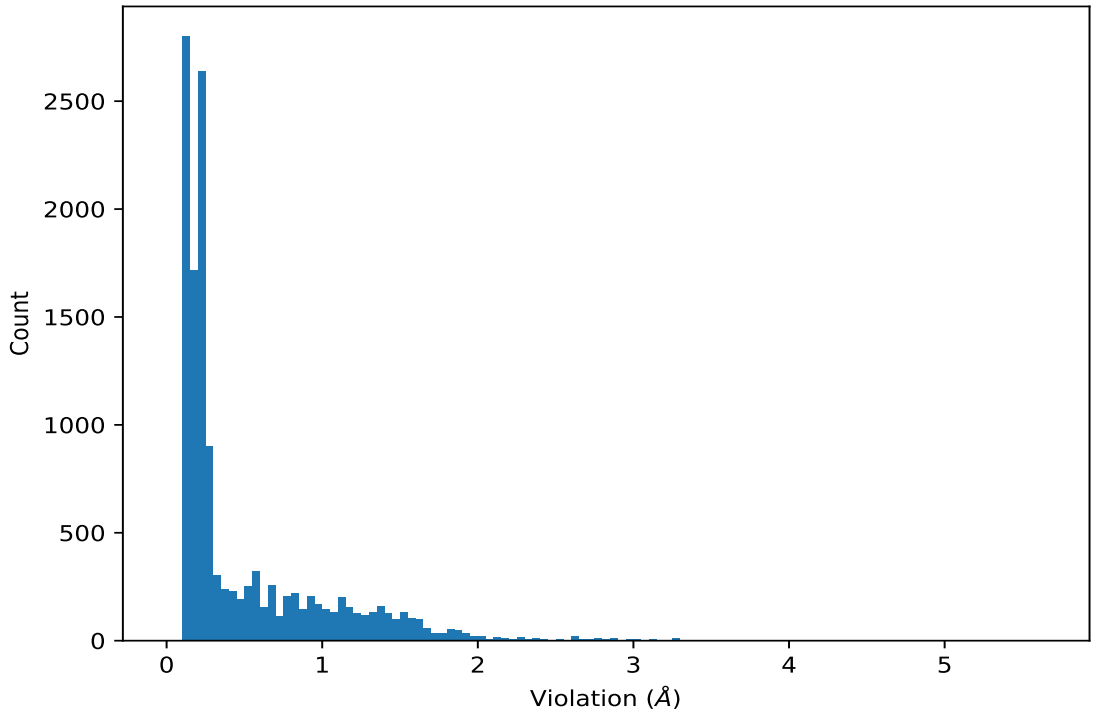
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1544)	1:113:A:GLN:HG2	1:114:A:PRO:HD2	2	0.12	0.01	0.12
(1,1544)	1:113:A:GLN:HG2	1:114:A:PRO:HD3	2	0.12	0.01	0.12
(1,1544)	1:113:A:GLN:HG3	1:114:A:PRO:HD2	2	0.12	0.01	0.12
(1,1544)	1:113:A:GLN:HG3	1:114:A:PRO:HD3	2	0.12	0.01	0.12
(1,1674)	1:125:A:ILE:HA	1:128:A:VAL:H	2	0.12	0.01	0.12
(1,545)	1:70:A:GLU:HB2	1:72:A:VAL:H	2	0.12	0.02	0.12
(1,545)	1:70:A:GLU:HB3	1:72:A:VAL:H	2	0.12	0.02	0.12
(1,1682)	1:125:A:ILE:HB	1:126:A:ASP:HB2	2	0.12	0.02	0.12
(1,1682)	1:125:A:ILE:HB	1:126:A:ASP:HB3	2	0.12	0.02	0.12
(1,1001)	1:84:A:TYR:HB2	1:85:A:ALA:H	2	0.12	0.0	0.12
(1,1001)	1:84:A:TYR:HB3	1:85:A:ALA:H	2	0.12	0.0	0.12
(1,1677)	1:125:A:ILE:HA	1:129:A:GLN:HB2	2	0.12	0.0	0.12
(1,1677)	1:125:A:ILE:HA	1:129:A:GLN:HB3	2	0.12	0.0	0.12
(1,336)	1:61:A:SER:HA	1:62:A:THR:HA	2	0.11	0.0	0.11
(1,1323)	1:103:A:ARG:H	1:103:A:ARG:HB2	2	0.11	0.0	0.11
(1,1323)	1:103:A:ARG:H	1:103:A:ARG:HB3	2	0.11	0.0	0.11
(1,1733)	1:128:A:VAL:HA	1:130:A:ASN:H	2	0.11	0.01	0.11
(1,1961)	1:139:A:LEU:H	1:139:A:LEU:HG	2	0.11	0.01	0.11
(1,2071)	1:146:A:VAL:HB	1:147:A:SER:HA	2	0.11	0.0	0.11
(1,2136)	1:151:A:THR:H	1:152:A:ASN:H	2	0.1	0.0	0.1

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

9.5 All violated distance restraints (i)

9.5.1 Histogram : Distribution of distance violations (i)

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



9.5.2 Table : All distance violations (i)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	12	5.63
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	12	5.63
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	10	5.19
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	10	5.19
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	11	5.18
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	11	4.24
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB2	11	4.17
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB3	11	4.17
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	11	4.09
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	11	4.08
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	11	3.96
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	5	3.76
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	5	3.76
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	2	3.74
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	2	3.74
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	1	3.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	1	3.65
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	12	3.61
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	11	3.58
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	7	3.57
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	7	3.57
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	12	3.56
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	11	3.54
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	12	3.49
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	8	3.48
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	8	3.48
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	19	3.45
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	5	3.44
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	15	3.41
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	13	3.35
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	13	3.35
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	11	3.32
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	6	3.31
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	13	3.3
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	9	3.29
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	16	3.29
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	16	3.29
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	11	3.28
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	15	3.28
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	18	3.28
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	18	3.28
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	1	3.27
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	4	3.27
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	7	3.24
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	18	3.2
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	10	3.17
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	14	3.15
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	7	3.12
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	2	3.12
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	16	3.11
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	19	3.11
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	18	3.11
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	2	3.1
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	20	3.1
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	3	3.08
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	17	3.08
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	20	3.08
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	9	3.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	18	3.05
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	10	3.05
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	11	3.04
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	6	3.03
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	8	3.02
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	7	3.02
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	3	3.0
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	5	3.0
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	17	2.98
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	15	2.97
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	13	2.96
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	16	2.96
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	17	2.96
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	16	2.96
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	4	2.95
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	3	2.95
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	12	2.94
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	6	2.93
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	20	2.91
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	19	2.9
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	11	2.89
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	6	2.89
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	11	2.88
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	11	2.88
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	15	2.87
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	15	2.87
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	19	2.86
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	4	2.85
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	9	2.85
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	17	2.85
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	13	2.84
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	2	2.83
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	9	2.83
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	14	2.82
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	7	2.81
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	10	2.8
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	14	2.8
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	7	2.8
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	5	2.79
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	16	2.78
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	8	2.77
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	20	2.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	2	2.76
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	3	2.76
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	19	2.75
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	20	2.75
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	10	2.75
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	10	2.75
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	15	2.74
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	4	2.73
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	12	2.72
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	14	2.72
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	14	2.72
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	18	2.72
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	11	2.72
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	19	2.7
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	13	2.7
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	1	2.68
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	5	2.68
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	15	2.68
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	20	2.67
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	5	2.67
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	6	2.66
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	11	2.65
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	15	2.65
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	17	2.65
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	11	2.65
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	11	2.65
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	12	2.64
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	18	2.63
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	11	2.63
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	17	2.63
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	10	2.62
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	10	2.62
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	13	2.61
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	18	2.61
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE2	10	2.61
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE3	10	2.61
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE2	10	2.61
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE3	10	2.61
(1,1837)	1:132:A:LEU:HB2	1:149:A:LYS:H	11	2.6
(1,1837)	1:132:A:LEU:HB3	1:149:A:LYS:H	11	2.6
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	16	2.59
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	11	2.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	12	2.54
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	16	2.54
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	14	2.53
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	10	2.52
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	15	2.52
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	12	2.47
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	11	2.47
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	13	2.47
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	20	2.46
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	11	2.44
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	11	2.44
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	16	2.43
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	12	2.43
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	12	2.43
(1,2036)	1:144:A:LEU:HD11	1:146:A:VAL:HB	11	2.4
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	12	2.4
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	11	2.4
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	19	2.39
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	10	2.38
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	11	2.38
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	11	2.38
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	12	2.36
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	20	2.35
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	20	2.35
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	12	2.34
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	12	2.34
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	11	2.33
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	12	2.32
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	12	2.32
(1,770)	1:77:A:ILE:HG21	1:132:A:LEU:H	11	2.31
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	10	2.3
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	10	2.3
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	13	2.3
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	11	2.29
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	11	2.29
(1,857)	1:79:A:VAL:HG11	1:146:A:VAL:HG11	11	2.29
(1,857)	1:79:A:VAL:HG11	1:146:A:VAL:HG21	11	2.29
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	17	2.29
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	17	2.29
(1,745)	1:77:A:ILE:HB	1:132:A:LEU:HB2	11	2.26
(1,745)	1:77:A:ILE:HB	1:132:A:LEU:HB3	11	2.26
(1,857)	1:79:A:VAL:HG11	1:146:A:VAL:HG11	12	2.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,857)	1:79:A:VAL:HG11	1:146:A:VAL:HG21	12	2.25
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	19	2.25
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	19	2.25
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	10	2.25
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	11	2.24
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	11	2.24
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	11	2.24
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	11	2.22
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	11	2.22
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	11	2.22
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	10	2.2
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	9	2.2
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	11	2.2
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	15	2.19
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	6	2.18
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	16	2.18
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	4	2.17
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	4	2.17
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	12	2.16
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	12	2.16
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	12	2.16
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	11	2.15
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	11	2.15
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	11	2.15
(1,1219)	1:96:A:GLN:HA	1:101:A:VAL:HG11	11	2.13
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	11	2.12
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	5	2.12
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB2	10	2.11
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB3	10	2.11
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB2	10	2.11
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB3	10	2.11
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	10	2.11
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	10	2.11
(1,1690)	1:125:A:ILE:HG21	1:129:A:GLN:H	11	2.11
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	10	2.11
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	10	2.11
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	2	2.11
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	2	2.11
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	12	2.1
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	4	2.1
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	17	2.1
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	10	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	12	2.09
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	12	2.08
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	12	2.08
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	3	2.07
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	10	2.07
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	10	2.07
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	18	2.06
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	19	2.06
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	10	2.06
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	11	2.05
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	10	2.05
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	14	2.04
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	14	2.04
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	12	2.04
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	3	2.03
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	11	2.03
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	11	2.03
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	10	2.02
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	20	2.02
(1,1835)	1:132:A:LEU:HB2	1:148:A:ALA:HA	11	2.01
(1,1835)	1:132:A:LEU:HB3	1:148:A:ALA:HA	11	2.01
(1,1834)	1:132:A:LEU:HB2	1:148:A:ALA:H	11	2.01
(1,1834)	1:132:A:LEU:HB3	1:148:A:ALA:H	11	2.01
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	11	2.01
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	12	2.01
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	15	2.0
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	11	2.0
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	11	2.0
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	8	2.0
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	1	1.99
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	2	1.99
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	5	1.99
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	7	1.99
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	8	1.99
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	20	1.99
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	13	1.99
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	11	1.99
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	10	1.99
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	10	1.99
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	19	1.98
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	11	1.98
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	11	1.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	11	1.98
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	12	1.97
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	19	1.97
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	11	1.97
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	1	1.97
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	12	1.97
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	12	1.97
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	1	1.96
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB2	12	1.95
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB3	12	1.95
(1,1690)	1:125:A:ILE:HG21	1:129:A:GLN:H	12	1.95
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	12	1.95
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	10	1.95
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	1	1.95
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	17	1.94
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	12	1.94
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	12	1.94
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	2	1.94
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	12	1.94
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	12	1.94
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	14	1.93
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	11	1.93
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	13	1.93
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	18	1.93
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	11	1.93
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	18	1.93
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	6	1.93
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	6	1.93
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	9	1.93
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	6	1.92
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	7	1.92
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	14	1.92
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	12	1.92
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	3	1.92
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	7	1.92
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	6	1.92
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	17	1.92
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	11	1.92
(1,1833)	1:132:A:LEU:HB2	1:147:A:SER:HA	11	1.91
(1,1833)	1:132:A:LEU:HB3	1:147:A:SER:HA	11	1.91
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	10	1.91
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	7	1.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	20	1.91
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	15	1.9
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB2	11	1.9
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB3	11	1.9
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	15	1.9
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	17	1.9
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	11	1.9
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	19	1.9
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	1	1.9
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	5	1.9
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	8	1.9
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	18	1.89
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	1	1.89
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	5	1.89
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	8	1.89
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	19	1.89
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	20	1.89
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	3	1.89
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	4	1.89
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	14	1.89
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	17	1.88
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	4	1.88
(1,1461)	1:108:A:THR:HG21	1:116:A:GLY:H	10	1.88
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	10	1.88
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	11	1.88
(1,1129)	1:91:A:VAL:HG21	1:106:A:ILE:HD11	10	1.88
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	18	1.88
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	12	1.87
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	16	1.87
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	15	1.87
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	1	1.87
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	13	1.87
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	16	1.87
(1,768)	1:77:A:ILE:HG21	1:131:A:ALA:HA	11	1.87
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG2	11	1.87
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG3	11	1.87
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	3	1.86
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	12	1.86
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	6	1.86
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	7	1.86
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	10	1.86
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	10	1.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	16	1.85
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	9	1.85
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	4	1.85
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	20	1.85
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	11	1.85
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	11	1.85
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	4	1.85
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	9	1.84
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	10	1.84
(1,1208)	1:96:A:GLN:H	1:101:A:VAL:HG11	11	1.84
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	10	1.84
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	8	1.84
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	8	1.84
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	2	1.83
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	6	1.83
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	6	1.83
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	15	1.83
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	2	1.83
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	6	1.83
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	11	1.83
(1,660)	1:74:A:SER:HA	1:151:A:THR:HG21	11	1.83
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	12	1.83
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	12	1.83
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	12	1.83
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	12	1.83
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	8	1.83
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	12	1.82
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	11	1.82
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	5	1.82
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	13	1.82
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	20	1.82
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	9	1.82
(1,767)	1:77:A:ILE:HG21	1:131:A:ALA:H	11	1.82
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	5	1.82
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	10	1.82
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	10	1.82
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	10	1.82
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	10	1.82
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	11	1.81
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	4	1.81
(1,1836)	1:132:A:LEU:HB2	1:148:A:ALA:HB3	11	1.81
(1,1836)	1:132:A:LEU:HB3	1:148:A:ALA:HB3	11	1.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	20	1.81
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	12	1.81
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	16	1.81
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	11	1.81
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	5	1.81
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	5	1.81
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	3	1.81
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	18	1.81
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	18	1.81
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	6	1.8
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	17	1.8
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	5	1.8
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	11	1.8
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	11	1.8
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	2	1.8
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	19	1.8
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	13	1.79
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	11	1.79
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	2	1.79
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	19	1.79
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	19	1.79
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	15	1.79
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	10	1.79
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	13	1.79
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	15	1.79
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	3	1.79
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	11	1.78
(1,1909)	1:136:A:GLU:HB2	1:144:A:LEU:HD11	11	1.78
(1,1909)	1:136:A:GLU:HB3	1:144:A:LEU:HD11	11	1.78
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	8	1.78
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	8	1.78
(1,768)	1:77:A:ILE:HG21	1:131:A:ALA:HA	10	1.78
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	3	1.78
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	20	1.78
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	20	1.77
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	20	1.77
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	16	1.77
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	14	1.76
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	11	1.76
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	16	1.76
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	10	1.76
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	9	1.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	13	1.76
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	8	1.76
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	1	1.76
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	14	1.76
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	10	1.75
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	1	1.75
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	20	1.75
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	2	1.75
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	11	1.74
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	12	1.74
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	20	1.74
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	20	1.74
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	8	1.74
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	8	1.74
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	6	1.74
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	12	1.73
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	11	1.73
(1,768)	1:77:A:ILE:HG21	1:131:A:ALA:HA	12	1.73
(1,766)	1:77:A:ILE:HG21	1:128:A:VAL:HA	11	1.73
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	11	1.73
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	4	1.73
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	12	1.72
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	4	1.72
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	10	1.72
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	4	1.72
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	4	1.72
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	13	1.72
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	13	1.72
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	12	1.71
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	8	1.71
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	4	1.71
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	17	1.71
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	18	1.71
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	6	1.71
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	6	1.71
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	10	1.71
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	19	1.71
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	19	1.71
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	11	1.71
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	11	1.71
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	3	1.71
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	3	1.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	19	1.71
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	10	1.71
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	14	1.7
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	18	1.7
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	8	1.7
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	10	1.7
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	10	1.7
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	3	1.7
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	11	1.7
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	11	1.7
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	10	1.7
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	10	1.7
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	7	1.7
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	13	1.7
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	13	1.69
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	13	1.69
(1,1203)	1:95:A:PHE:HE1	1:138:A:GLU:H	12	1.69
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	4	1.69
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	7	1.69
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	10	1.69
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	3	1.69
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	3	1.69
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	7	1.69
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	7	1.69
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	20	1.69
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	19	1.69
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	11	1.69
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	12	1.68
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	20	1.68
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	9	1.68
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	16	1.68
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	5	1.68
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	5	1.68
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	2	1.68
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	2	1.68
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	18	1.68
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	18	1.68
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	7	1.68
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	5	1.68
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	10	1.67
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	10	1.67
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	9	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	9	1.67
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	8	1.67
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	11	1.67
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	12	1.67
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	19	1.67
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	5	1.67
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	5	1.67
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	12	1.66
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	12	1.66
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	12	1.66
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	6	1.66
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	16	1.66
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	16	1.66
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	1	1.66
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	1	1.66
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	10	1.66
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG11	10	1.66
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG21	10	1.66
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	8	1.66
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	5	1.66
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	7	1.65
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	7	1.65
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	12	1.65
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	17	1.65
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	12	1.65
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	13	1.65
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	10	1.65
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	8	1.65
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	8	1.65
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	5	1.65
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	5	1.65
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	11	1.65
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	11	1.65
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	2	1.65
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	2	1.65
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	9	1.65
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	1	1.65
(1,1917)	1:136:A:GLU:HG2	1:144:A:LEU:HD11	11	1.64
(1,1917)	1:136:A:GLU:HG3	1:144:A:LEU:HD11	11	1.64
(1,1834)	1:132:A:LEU:HB2	1:148:A:ALA:H	12	1.64
(1,1834)	1:132:A:LEU:HB3	1:148:A:ALA:H	12	1.64
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	4	1.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	18	1.64
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	3	1.64
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	14	1.64
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	2	1.64
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	2	1.64
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	19	1.64
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	19	1.64
(1,511)	1:69:A:LYS:HD2	1:72:A:VAL:HB	11	1.64
(1,511)	1:69:A:LYS:HD3	1:72:A:VAL:HB	11	1.64
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	15	1.64
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	15	1.64
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	1	1.64
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	1	1.64
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	17	1.64
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	18	1.64
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	11	1.64
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	14	1.63
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	17	1.63
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	13	1.63
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	2	1.63
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	2	1.63
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	20	1.63
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	20	1.63
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	7	1.63
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	10	1.63
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	1	1.63
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	5	1.63
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	17	1.63
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	5	1.63
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	5	1.63
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	6	1.63
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	6	1.63
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	13	1.63
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	13	1.63
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	6	1.63
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	6	1.63
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	9	1.62
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	11	1.62
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	3	1.62
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB2	12	1.62
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB3	12	1.62
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	14	1.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	10	1.62
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	14	1.62
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	14	1.62
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	18	1.62
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	1	1.62
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	20	1.62
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	10	1.61
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	2	1.61
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	18	1.61
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	20	1.61
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	13	1.61
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	1	1.61
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	6	1.61
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	6	1.61
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	1	1.61
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	10	1.61
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	10	1.61
(1,2115)	1:149:A:LYS:HG2	1:151:A:THR:HG21	11	1.6
(1,2115)	1:149:A:LYS:HG3	1:151:A:THR:HG21	11	1.6
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	2	1.6
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	2	1.6
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	12	1.6
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	13	1.6
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	13	1.6
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	2	1.6
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	3	1.6
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	3	1.6
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	4	1.6
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	5	1.6
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	7	1.6
(1,770)	1:77:A:ILE:HG21	1:132:A:LEU:H	12	1.6
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	6	1.6
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	11	1.6
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	17	1.6
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	17	1.6
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	14	1.6
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	12	1.59
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	8	1.59
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	8	1.59
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	11	1.59
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	10	1.59
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	15	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	2	1.59
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	10	1.59
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	11	1.59
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	3	1.59
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	3	1.59
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	11	1.59
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	11	1.59
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	18	1.59
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	18	1.59
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	2	1.59
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	5	1.59
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	18	1.59
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	16	1.59
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	11	1.59
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	11	1.59
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	10	1.59
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	10	1.59
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	13	1.59
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	13	1.59
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	19	1.59
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	19	1.59
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	14	1.59
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	11	1.59
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	11	1.59
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	14	1.58
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	9	1.58
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	3	1.58
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	6	1.58
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	18	1.58
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	18	1.58
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	15	1.58
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	17	1.58
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	16	1.58
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	16	1.58
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	13	1.58
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	17	1.58
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	17	1.57
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	17	1.57
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	16	1.57
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	19	1.57
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	14	1.57
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	14	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	16	1.57
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	12	1.57
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	18	1.57
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	16	1.57
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	9	1.57
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	9	1.57
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	9	1.57
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	9	1.57
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	10	1.57
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	6	1.57
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	7	1.57
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	5	1.56
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	12	1.56
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	3	1.56
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	12	1.56
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	20	1.56
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	5	1.56
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	5	1.56
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	15	1.56
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	15	1.56
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	11	1.56
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	17	1.56
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	12	1.56
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	8	1.56
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	8	1.56
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	7	1.56
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	13	1.56
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	13	1.56
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	18	1.56
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	9	1.56
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	11	1.56
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	11	1.56
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	11	1.56
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	11	1.56
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	18	1.56
(1,2114)	1:149:A:LYS:HG2	1:151:A:THR:HB	11	1.55
(1,2114)	1:149:A:LYS:HG3	1:151:A:THR:HB	11	1.55
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	12	1.55
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	8	1.55
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	18	1.55
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	18	1.55
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	14	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	17	1.55
(1,1227)	1:96:A:GLN:HB2	1:101:A:VAL:HG11	11	1.55
(1,1227)	1:96:A:GLN:HB3	1:101:A:VAL:HG11	11	1.55
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	15	1.55
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	2	1.55
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	16	1.55
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	11	1.55
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	4	1.55
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	3	1.55
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	3	1.55
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	14	1.55
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	14	1.55
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	3	1.54
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	19	1.54
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	12	1.54
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	16	1.54
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	16	1.54
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	4	1.54
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	16	1.54
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	13	1.54
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	1	1.54
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	20	1.54
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	15	1.54
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	15	1.54
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	20	1.54
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	11	1.54
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	10	1.54
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	10	1.54
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	11	1.54
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	6	1.54
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	6	1.54
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	4	1.54
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	4	1.54
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	16	1.54
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	16	1.54
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	10	1.53
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	10	1.53
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	10	1.53
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	10	1.53
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	3	1.53
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	3	1.53
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	20	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	20	1.53
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	16	1.53
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	1	1.53
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	19	1.53
(1,1591)	1:119:A:TYR:H	1:120:A:VAL:HG11	10	1.53
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	18	1.53
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	11	1.53
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	11	1.53
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	13	1.53
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	13	1.53
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	15	1.53
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	20	1.53
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	12	1.53
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	20	1.53
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	13	1.53
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	4	1.53
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	11	1.53
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	11	1.53
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	2	1.53
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	15	1.53
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	15	1.53
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	3	1.53
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	18	1.52
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	18	1.52
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	19	1.52
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	19	1.52
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	18	1.52
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	11	1.52
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	15	1.52
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	17	1.52
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	12	1.52
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	20	1.52
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	20	1.52
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	1	1.52
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	11	1.52
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	13	1.52
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	13	1.52
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	7	1.52
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	1	1.52
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	1	1.52
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	7	1.52
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	7	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	3	1.52
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	11	1.52
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	20	1.52
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	13	1.52
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	5	1.52
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	5	1.52
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	20	1.52
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	20	1.52
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	15	1.52
(1,1833)	1:132:A:LEU:HB2	1:147:A:SER:HA	12	1.51
(1,1833)	1:132:A:LEU:HB3	1:147:A:SER:HA	12	1.51
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	9	1.51
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	9	1.51
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	6	1.51
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	7	1.51
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	17	1.51
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	3	1.51
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	7	1.51
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	15	1.51
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	6	1.51
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	4	1.51
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	4	1.51
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	13	1.51
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	13	1.51
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	19	1.51
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	9	1.51
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	9	1.51
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	11	1.51
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	2	1.51
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	19	1.51
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	9	1.51
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	18	1.51
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	13	1.5
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	19	1.5
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	13	1.5
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	11	1.5
(1,1591)	1:119:A:TYR:H	1:120:A:VAL:HG11	11	1.5
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	3	1.5
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	3	1.5
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	9	1.5
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	19	1.5
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	8	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	2	1.5
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	4	1.5
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	11	1.5
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	5	1.5
(1,930)	1:82:A:VAL:HB	1:144:A:LEU:HD21	10	1.5
(1,623)	1:72:A:VAL:HG11	1:123:A:VAL:H	10	1.5
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	14	1.5
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	14	1.5
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	6	1.5
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	6	1.5
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	6	1.5
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	17	1.5
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	17	1.5
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	15	1.5
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	16	1.5
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	17	1.5
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	15	1.5
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	17	1.5
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	1	1.49
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	1	1.49
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	16	1.49
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	16	1.49
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	12	1.49
(1,1748)	1:128:A:VAL:HG21	1:131:A:ALA:HB3	12	1.49
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	13	1.49
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	15	1.49
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	18	1.49
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	19	1.49
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	18	1.49
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	18	1.49
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	16	1.49
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	5	1.49
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	14	1.49
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	17	1.49
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	19	1.49
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	19	1.49
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	13	1.49
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	13	1.49
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB2	11	1.49
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB3	11	1.49
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB2	11	1.49
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB3	11	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	11	1.49
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	3	1.49
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	2	1.49
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	19	1.49
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	16	1.49
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	8	1.48
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	10	1.48
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	15	1.48
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	20	1.48
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	12	1.48
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	7	1.48
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	12	1.48
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	16	1.48
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	20	1.48
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	11	1.48
(1,1359)	1:104:A:VAL:HG11	1:105:A:THR:HA	11	1.48
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	9	1.48
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	9	1.48
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	5	1.48
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	18	1.48
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	18	1.48
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	8	1.48
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	19	1.48
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	19	1.48
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	9	1.48
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	14	1.48
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	7	1.48
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	13	1.48
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	2	1.48
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	8	1.48
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	8	1.48
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	7	1.48
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	7	1.48
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG2	11	1.48
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG3	11	1.48
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG2	11	1.48
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG3	11	1.48
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	13	1.48
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	17	1.47
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	17	1.47
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	17	1.47
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	8	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	20	1.47
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	20	1.47
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	12	1.47
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	13	1.47
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	20	1.47
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	20	1.47
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	11	1.47
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	20	1.47
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	20	1.47
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	8	1.47
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	1	1.47
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	2	1.47
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	16	1.47
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	13	1.47
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	3	1.46
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	14	1.46
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	7	1.46
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	7	1.46
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	15	1.46
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	15	1.46
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	20	1.46
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	20	1.46
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	3	1.46
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	5	1.46
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	19	1.46
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	2	1.46
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	10	1.46
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	4	1.46
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	8	1.46
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	20	1.46
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	18	1.46
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	6	1.46
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	8	1.46
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	1	1.45
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	2	1.45
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	5	1.45
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	18	1.45
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD2	11	1.45
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD3	11	1.45
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD2	11	1.45
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD3	11	1.45
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	17	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	11	1.45
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	12	1.45
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	15	1.45
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	12	1.45
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	16	1.45
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	19	1.45
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	19	1.45
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	16	1.45
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	17	1.45
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	17	1.45
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	11	1.45
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	6	1.45
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	12	1.45
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	12	1.45
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	15	1.45
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	4	1.45
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	15	1.45
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	5	1.44
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	7	1.44
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	20	1.44
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	6	1.44
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	6	1.44
(1,1897)	1:136:A:GLU:HA	1:144:A:LEU:HD11	11	1.44
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	17	1.44
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	6	1.44
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	8	1.44
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	15	1.44
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	16	1.44
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	14	1.44
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	14	1.44
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	6	1.44
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	17	1.44
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	1	1.44
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	15	1.43
(1,1960)	1:139:A:LEU:H	1:139:A:LEU:HD11	10	1.43
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	11	1.43
(1,1746)	1:128:A:VAL:HG21	1:129:A:GLN:HA	9	1.43
(1,1744)	1:128:A:VAL:HG11	1:132:A:LEU:H	12	1.43
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	20	1.43
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	20	1.43
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	17	1.43
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	17	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	9	1.43
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	9	1.43
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	2	1.43
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	2	1.43
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	20	1.43
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	3	1.43
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	14	1.43
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	13	1.43
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	2	1.43
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	2	1.43
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	4	1.43
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	7	1.43
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	17	1.43
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	15	1.43
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	18	1.43
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	9	1.43
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	9	1.43
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	15	1.43
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	20	1.43
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	7	1.43
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	7	1.43
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	9	1.43
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	9	1.43
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	14	1.43
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	3	1.43
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	10	1.43
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	20	1.43
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	14	1.43
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	14	1.43
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	11	1.42
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	11	1.42
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	7	1.42
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	7	1.42
(1,1591)	1:119:A:TYR:H	1:120:A:VAL:HG11	12	1.42
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	20	1.42
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	11	1.42
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	4	1.42
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	15	1.42
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	16	1.42
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	16	1.42
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	13	1.42
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	14	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	4	1.42
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	1	1.42
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	1	1.42
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	10	1.42
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	10	1.42
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	10	1.42
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	3	1.42
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	5	1.41
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	5	1.41
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	4	1.41
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	14	1.41
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	7	1.41
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	7	1.41
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	9	1.41
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	20	1.41
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	12	1.41
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	12	1.41
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	10	1.41
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	1	1.41
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	6	1.41
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	14	1.41
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	5	1.41
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	9	1.41
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	9	1.41
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	1	1.41
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	5	1.41
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	1	1.41
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	14	1.41
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	7	1.41
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	7	1.41
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	19	1.41
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	19	1.41
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	15	1.41
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	5	1.41
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	13	1.41
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	20	1.41
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	6	1.4
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	18	1.4
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	11	1.4
(1,2033)	1:144:A:LEU:HD11	1:145:A:LYS:HA	11	1.4
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	10	1.4
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	14	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	14	1.4
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	5	1.4
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	5	1.4
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	17	1.4
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	17	1.4
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	8	1.4
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	13	1.4
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	13	1.4
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	8	1.4
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	8	1.4
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	18	1.4
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	19	1.4
(1,629)	1:72:A:VAL:HG21	1:123:A:VAL:H	11	1.4
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	17	1.4
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	18	1.4
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	4	1.4
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	4	1.4
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	4	1.4
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	4	1.4
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	1	1.4
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	14	1.4
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	3	1.39
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	3	1.39
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	10	1.39
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	4	1.39
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	4	1.39
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	9	1.39
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	9	1.39
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	8	1.39
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	7	1.39
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	4	1.39
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	4	1.39
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	2	1.39
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	19	1.39
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	6	1.39
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	14	1.39
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	1	1.38
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	19	1.38
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	14	1.38
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	14	1.38
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	15	1.38
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	15	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	16	1.38
(1,1651)	1:124:A:GLU:HA	1:125:A:ILE:HD11	10	1.38
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	2	1.38
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	2	1.38
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	17	1.38
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	17	1.38
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	4	1.38
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	4	1.38
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	15	1.38
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	15	1.38
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	14	1.38
(1,1231)	1:96:A:GLN:HG2	1:101:A:VAL:HG11	10	1.38
(1,1231)	1:96:A:GLN:HG3	1:101:A:VAL:HG11	10	1.38
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	17	1.38
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	17	1.38
(1,1125)	1:91:A:VAL:HB	1:106:A:ILE:HD11	12	1.38
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	15	1.38
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	1	1.38
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	18	1.38
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	11	1.38
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	3	1.38
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	3	1.38
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	16	1.38
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	16	1.38
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	7	1.38
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	7	1.38
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	7	1.38
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	14	1.38
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	3	1.37
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	14	1.37
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	18	1.37
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	19	1.37
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	19	1.37
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	2	1.37
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	2	1.37
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	20	1.37
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	20	1.37
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	4	1.37
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	10	1.37
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	6	1.37
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	6	1.37
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	10	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	13	1.37
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	3	1.37
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	1	1.37
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	5	1.37
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	5	1.37
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	15	1.37
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	15	1.37
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	17	1.37
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	17	1.37
(1,620)	1:72:A:VAL:HG11	1:122:A:PHE:H	11	1.37
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	8	1.37
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	15	1.37
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	16	1.37
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	13	1.37
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	13	1.37
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	13	1.36
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	17	1.36
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	16	1.36
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	10	1.36
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	1	1.36
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	3	1.36
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	14	1.36
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	16	1.36
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	16	1.36
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	4	1.36
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	9	1.36
(1,1037)	1:88:A:PRO:HA	1:106:A:ILE:HD11	17	1.36
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	2	1.36
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	6	1.36
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	18	1.36
(1,769)	1:77:A:ILE:HG21	1:131:A:ALA:HB3	10	1.36
(1,767)	1:77:A:ILE:HG21	1:131:A:ALA:H	12	1.36
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	20	1.36
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	19	1.36
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	16	1.36
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	16	1.36
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	13	1.36
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	13	1.36
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	1	1.36
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	8	1.36
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	10	1.36
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	11	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	11	1.36
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	4	1.35
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	10	1.35
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	13	1.35
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	15	1.35
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	17	1.35
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	8	1.35
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	8	1.35
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	14	1.35
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	14	1.35
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	17	1.35
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	17	1.35
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	17	1.35
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	3	1.35
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	20	1.35
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	20	1.35
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	5	1.35
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG12	14	1.35
(1,936)	1:82:A:VAL:HG21	1:106:A:ILE:HG13	14	1.35
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG11	12	1.35
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG21	12	1.35
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	11	1.35
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	9	1.35
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	8	1.35
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	8	1.35
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	17	1.35
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	19	1.35
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	10	1.35
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	6	1.34
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	17	1.34
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	11	1.34
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	9	1.34
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	9	1.34
(1,1843)	1:133:A:LEU:HA	1:133:A:LEU:HD11	12	1.34
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	19	1.34
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	1	1.34
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	1	1.34
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	2	1.34
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	2	1.34
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	18	1.34
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	19	1.34
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	11	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	20	1.34
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	1	1.34
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	4	1.34
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	11	1.34
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	17	1.34
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	9	1.34
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	20	1.34
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	20	1.34
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	13	1.34
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	13	1.34
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	7	1.34
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	16	1.34
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	17	1.34
(1,84)	1:46:A:GLN:H	1:47:A:ALA:HB3	10	1.34
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	8	1.33
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	9	1.33
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	15	1.33
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	16	1.33
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	20	1.33
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	16	1.33
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	6	1.33
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	6	1.33
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	8	1.33
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	8	1.33
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	7	1.33
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	9	1.33
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	9	1.33
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	18	1.33
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	18	1.33
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	8	1.33
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	5	1.33
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	5	1.33
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	14	1.33
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	14	1.33
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	16	1.33
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	6	1.33
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	7	1.33
(1,314)	1:58:A:ASP:HB2	1:61:A:SER:HB2	10	1.33
(1,314)	1:58:A:ASP:HB2	1:61:A:SER:HB3	10	1.33
(1,314)	1:58:A:ASP:HB3	1:61:A:SER:HB2	10	1.33
(1,314)	1:58:A:ASP:HB3	1:61:A:SER:HB3	10	1.33
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	7	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB2	12	1.32
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB3	12	1.32
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB2	12	1.32
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB3	12	1.32
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	14	1.32
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	19	1.32
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	13	1.32
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	13	1.32
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	18	1.32
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	18	1.32
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	7	1.32
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	7	1.32
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	4	1.32
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	4	1.32
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	20	1.32
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	4	1.32
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	9	1.32
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	9	1.32
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	9	1.32
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	9	1.32
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	8	1.32
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	8	1.32
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	16	1.32
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	6	1.32
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	14	1.32
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	14	1.31
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	20	1.31
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	6	1.31
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	6	1.31
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	14	1.31
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	14	1.31
(1,1359)	1:104:A:VAL:HG11	1:105:A:THR:HA	12	1.31
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	15	1.31
(1,1133)	1:92:A:GLN:H	1:104:A:VAL:HG21	18	1.31
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	15	1.31
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	3	1.31
(1,766)	1:77:A:ILE:HG21	1:128:A:VAL:HA	12	1.31
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	8	1.31
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	19	1.31
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	16	1.31
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	1	1.31
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	2	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	3	1.31
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	15	1.31
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	13	1.31
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	19	1.3
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	19	1.3
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	13	1.3
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	13	1.3
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	17	1.3
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	17	1.3
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	18	1.3
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	18	1.3
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	15	1.3
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	15	1.3
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	14	1.3
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	15	1.3
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	16	1.3
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	12	1.3
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	12	1.3
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	19	1.3
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	12	1.3
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	12	1.3
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	12	1.3
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	3	1.3
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	4	1.3
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	11	1.3
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	11	1.3
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	6	1.3
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	6	1.3
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	6	1.3
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	6	1.3
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	11	1.3
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	3	1.3
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	19	1.3
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	10	1.3
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	14	1.3
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	6	1.29
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	6	1.29
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	4	1.29
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	8	1.29
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	8	1.29
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	18	1.29
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	18	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB2	4	1.29
(1,1938)	1:137:A:THR:HG21	1:138:A:GLU:HB3	4	1.29
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	10	1.29
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	17	1.29
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	1	1.29
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	1	1.29
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	3	1.29
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	3	1.29
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	8	1.29
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	8	1.29
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	8	1.29
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	8	1.29
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	5	1.29
(1,1045)	1:88:A:PRO:HA	1:91:A:VAL:HG21	12	1.29
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	1	1.29
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	15	1.29
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	8	1.29
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	2	1.29
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	1	1.29
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	1	1.29
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	7	1.29
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	7	1.29
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	19	1.29
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	19	1.29
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	18	1.29
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	15	1.29
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	20	1.29
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	13	1.28
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	12	1.28
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	20	1.28
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	20	1.28
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	4	1.28
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	4	1.28
(1,1430)	1:107:A:LEU:HD11	1:108:A:THR:H	10	1.28
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	12	1.28
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	1	1.28
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	1	1.28
(1,1206)	1:95:A:PHE:HE2	1:146:A:VAL:HG21	12	1.28
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	20	1.28
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	8	1.28
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	18	1.28
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	14	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	17	1.28
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	15	1.28
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	15	1.28
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	2	1.28
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	8	1.28
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	18	1.28
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	11	1.27
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	16	1.27
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	16	1.27
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	2	1.27
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	11	1.27
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	9	1.27
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	20	1.27
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	20	1.27
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	20	1.27
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	18	1.27
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	3	1.27
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	3	1.27
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	9	1.27
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	6	1.27
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	11	1.26
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	18	1.26
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	18	1.26
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	18	1.26
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	13	1.26
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	17	1.26
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	14	1.26
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	14	1.26
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	16	1.26
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	16	1.26
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	5	1.26
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	4	1.26
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	6	1.26
(1,628)	1:72:A:VAL:HG21	1:122:A:PHE:HA	11	1.26
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	19	1.26
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	11	1.26
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	11	1.26
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	13	1.26
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	13	1.26
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	7	1.26
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	16	1.26
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	4	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	9	1.26
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	15	1.26
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	17	1.26
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	2	1.25
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	2	1.25
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	2	1.25
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD2	10	1.25
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD3	10	1.25
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD2	10	1.25
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD3	10	1.25
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	12	1.25
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	15	1.25
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	19	1.25
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	19	1.25
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	1	1.25
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	7	1.25
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	7	1.25
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	16	1.25
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	8	1.25
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	12	1.25
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	19	1.25
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	2	1.25
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	11	1.25
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	8	1.25
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	13	1.25
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	15	1.25
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	15	1.25
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	1	1.24
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	1	1.24
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	5	1.24
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	5	1.24
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	7	1.24
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	7	1.24
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	16	1.24
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	9	1.24
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	9	1.24
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	9	1.24
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	9	1.24
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	16	1.24
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	16	1.24
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	16	1.24
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	13	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	13	1.24
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	5	1.24
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	5	1.24
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	15	1.24
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	17	1.24
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	17	1.24
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	16	1.24
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	16	1.24
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	14	1.24
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	12	1.24
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	12	1.24
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	17	1.24
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	9	1.24
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	15	1.24
(1,2126)	1:150:A:ARG:HA	1:151:A:THR:HG21	11	1.23
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	16	1.23
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	17	1.23
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	17	1.23
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	17	1.23
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	8	1.23
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	13	1.23
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	19	1.23
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	19	1.23
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	5	1.23
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	2	1.23
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	2	1.23
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	17	1.23
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	14	1.23
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	13	1.23
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	13	1.23
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	7	1.23
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	18	1.23
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	19	1.23
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	1	1.23
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	9	1.23
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	12	1.23
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	16	1.23
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	17	1.23
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	17	1.23
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	4	1.23
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	12	1.23
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	12	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	12	1.23
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	12	1.23
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	16	1.23
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	14	1.23
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	8	1.22
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	12	1.22
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	15	1.22
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	15	1.22
(1,1231)	1:96:A:GLN:HG2	1:101:A:VAL:HG11	11	1.22
(1,1231)	1:96:A:GLN:HG3	1:101:A:VAL:HG11	11	1.22
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	11	1.22
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	11	1.22
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	4	1.22
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	16	1.22
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	20	1.22
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	2	1.22
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	2	1.22
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	5	1.22
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	5	1.22
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	2	1.22
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	19	1.22
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	19	1.22
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	8	1.22
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	2	1.22
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	4	1.22
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	18	1.22
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	3	1.22
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	3	1.22
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	3	1.22
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	16	1.22
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	16	1.22
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	8	1.22
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	17	1.22
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	17	1.22
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	11	1.22
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	18	1.22
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	19	1.22
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	20	1.21
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	20	1.21
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	2	1.21
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	5	1.21
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	14	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	10	1.21
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	12	1.21
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	19	1.21
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	1	1.21
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	1	1.21
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	17	1.21
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	17	1.21
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	7	1.21
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	16	1.21
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	1	1.21
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	15	1.21
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	18	1.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	11	1.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	11	1.21
(1,864)	1:79:A:VAL:HG21	1:146:A:VAL:HB	9	1.21
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	3	1.21
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	5	1.21
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	8	1.21
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	13	1.21
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	17	1.21
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	3	1.21
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	7	1.21
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	9	1.21
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	1	1.21
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	11	1.21
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	11	1.21
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	1	1.21
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	1	1.2
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	3	1.2
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	18	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	1	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	4	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	6	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	8	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	9	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	17	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	18	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	19	1.2
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	20	1.2
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	4	1.2
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	4	1.2
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	20	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	9	1.2
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	9	1.2
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	13	1.2
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	13	1.2
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	19	1.2
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	12	1.2
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	4	1.2
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	13	1.2
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	13	1.2
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	18	1.2
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	18	1.2
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	6	1.2
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	8	1.2
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	11	1.2
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	2	1.2
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	2	1.2
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	9	1.2
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	9	1.2
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	15	1.2
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	18	1.2
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	19	1.2
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	20	1.2
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	17	1.2
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	17	1.2
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	9	1.2
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	19	1.2
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	20	1.19
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	7	1.19
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	13	1.19
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	14	1.19
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	15	1.19
(1,1693)	1:125:A:ILE:HG21	1:129:A:GLN:HG2	11	1.19
(1,1693)	1:125:A:ILE:HG21	1:129:A:GLN:HG3	11	1.19
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	4	1.19
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	4	1.19
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	16	1.19
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	16	1.19
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	2	1.19
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	5	1.19
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	16	1.19
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	16	1.19
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	19	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	19	1.19
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	11	1.19
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	11	1.19
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	12	1.19
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	12	1.19
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	9	1.19
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	10	1.19
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	20	1.19
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	20	1.19
(1,1219)	1:96:A:GLN:HA	1:101:A:VAL:HG11	10	1.19
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	17	1.19
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	1	1.19
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	1	1.19
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	18	1.19
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	18	1.19
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	2	1.19
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	7	1.19
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	7	1.19
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	13	1.19
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	5	1.19
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	13	1.19
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	13	1.19
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	20	1.19
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB2	11	1.19
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB3	11	1.19
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB2	11	1.19
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB3	11	1.19
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	17	1.18
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	17	1.18
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	2	1.18
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	19	1.18
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	10	1.18
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	12	1.18
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	12	1.18
(1,1744)	1:128:A:VAL:HG11	1:132:A:LEU:H	11	1.18
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	14	1.18
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	4	1.18
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	15	1.18
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	18	1.18
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	4	1.18
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	4	1.18
(1,1035)	1:87:A:THR:HA	1:91:A:VAL:HG21	12	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	13	1.18
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	13	1.18
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	6	1.18
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	16	1.18
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	1	1.18
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	13	1.18
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	5	1.18
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	15	1.18
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	16	1.18
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	2	1.18
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	2	1.18
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	4	1.18
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	11	1.18
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	5	1.17
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	7	1.17
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	3	1.17
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	16	1.17
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	16	1.17
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	11	1.17
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	5	1.17
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	5	1.17
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	9	1.17
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	9	1.17
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	9	1.17
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	16	1.17
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	11	1.17
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	6	1.17
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	11	1.17
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	11	1.17
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	19	1.17
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	19	1.17
(1,384)	1:64:A:ALA:HB3	1:65:A:THR:HA	10	1.17
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	3	1.17
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	3	1.17
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	5	1.17
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	1	1.17
(1,1837)	1:132:A:LEU:HB2	1:149:A:LYS:H	12	1.16
(1,1837)	1:132:A:LEU:HB3	1:149:A:LYS:H	12	1.16
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	11	1.16
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	11	1.16
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	7	1.16
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	9	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	1	1.16
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	5	1.16
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	5	1.16
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	7	1.16
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	7	1.16
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	6	1.16
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	17	1.16
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	17	1.16
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	15	1.16
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	18	1.16
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	18	1.16
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	4	1.16
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	5	1.16
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	5	1.16
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	14	1.16
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	5	1.16
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB2	10	1.15
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB3	10	1.15
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB2	10	1.15
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB3	10	1.15
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	17	1.15
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	10	1.15
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	10	1.15
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	6	1.15
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	9	1.15
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	1	1.15
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	3	1.15
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	3	1.15
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	14	1.15
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	14	1.15
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	16	1.15
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	16	1.15
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	13	1.15
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	19	1.15
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	19	1.15
(1,618)	1:72:A:VAL:HG11	1:121:A:GLU:HA	11	1.15
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	8	1.15
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	8	1.15
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	5	1.15
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	5	1.15
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	9	1.15
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	9	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	11	1.15
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	11	1.15
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB2	10	1.15
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB3	10	1.15
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG2	11	1.15
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG3	11	1.15
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	12	1.14
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	12	1.14
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	12	1.14
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	13	1.14
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	13	1.14
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	15	1.14
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	15	1.14
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	8	1.14
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	5	1.14
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	15	1.14
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	2	1.14
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	10	1.14
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	10	1.14
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	5	1.14
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	2	1.14
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	19	1.14
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	19	1.14
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	13	1.14
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	13	1.14
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	14	1.14
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	14	1.14
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	19	1.14
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	19	1.14
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	2	1.14
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	2	1.14
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	4	1.14
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	4	1.14
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	15	1.14
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	15	1.14
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	20	1.14
(1,2049)	1:145:A:LYS:H	1:146:A:VAL:HG21	9	1.13
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	2	1.13
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	11	1.13
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	13	1.13
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	3	1.13
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	3	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	13	1.13
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	13	1.13
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	3	1.13
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	3	1.13
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	14	1.13
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	6	1.13
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	20	1.13
(1,772)	1:77:A:ILE:HG21	1:132:A:LEU:HB2	11	1.13
(1,772)	1:77:A:ILE:HG21	1:132:A:LEU:HB3	11	1.13
(1,762)	1:77:A:ILE:HD11	1:146:A:VAL:HA	12	1.13
(1,616)	1:72:A:VAL:HG11	1:102:A:ASN:HB2	10	1.13
(1,616)	1:72:A:VAL:HG11	1:102:A:ASN:HB3	10	1.13
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	16	1.13
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	3	1.13
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	3	1.13
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	9	1.13
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	20	1.13
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	10	1.13
(1,131)	1:48:A:LYS:HB2	1:48:A:LYS:HE2	10	1.13
(1,131)	1:48:A:LYS:HB2	1:48:A:LYS:HE3	10	1.13
(1,131)	1:48:A:LYS:HB3	1:48:A:LYS:HE2	10	1.13
(1,131)	1:48:A:LYS:HB3	1:48:A:LYS:HE3	10	1.13
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	10	1.13
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	7	1.12
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	7	1.12
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	13	1.12
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	14	1.12
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	16	1.12
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	17	1.12
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	20	1.12
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	19	1.12
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	6	1.12
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	3	1.12
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	3	1.12
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	1	1.12
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	5	1.12
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	5	1.12
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	1	1.12
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	1	1.12
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	15	1.12
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	15	1.12
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	20	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	9	1.12
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	18	1.12
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	19	1.12
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	6	1.12
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	19	1.12
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	4	1.12
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	4	1.12
(1,628)	1:72:A:VAL:HG21	1:122:A:PHE:HA	12	1.12
(1,621)	1:72:A:VAL:HG11	1:122:A:PHE:HA	10	1.12
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	2	1.12
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	2	1.12
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	12	1.12
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	11	1.12
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG2	10	1.12
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG3	10	1.12
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	7	1.12
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	17	1.12
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	12	1.12
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	12	1.12
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	6	1.11
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	6	1.11
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	16	1.11
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	15	1.11
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	18	1.11
(1,1799)	1:131:A:ALA:H	1:131:A:ALA:HB3	19	1.11
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	11	1.11
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	12	1.11
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	13	1.11
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	14	1.11
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	15	1.11
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	16	1.11
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	17	1.11
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	18	1.11
(1,1678)	1:125:A:ILE:HB	1:125:A:ILE:HD11	12	1.11
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB2	11	1.11
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB3	11	1.11
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB2	11	1.11
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB3	11	1.11
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	3	1.11
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	7	1.11
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	9	1.11
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	9	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	20	1.11
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	6	1.11
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	2	1.11
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	2	1.11
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	16	1.11
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	16	1.11
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	4	1.11
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	4	1.11
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	4	1.11
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	10	1.11
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	11	1.11
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	11	1.11
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	4	1.1
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	12	1.1
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	12	1.1
(1,1713)	1:127:A:ALA:H	1:127:A:ALA:HB3	20	1.1
(1,1678)	1:125:A:ILE:HB	1:125:A:ILE:HD11	11	1.1
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	18	1.1
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	10	1.1
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	16	1.1
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	16	1.1
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB2	12	1.1
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB3	12	1.1
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB2	12	1.1
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB3	12	1.1
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	11	1.1
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	11	1.1
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	9	1.1
(1,770)	1:77:A:ILE:HG21	1:132:A:LEU:H	10	1.1
(1,767)	1:77:A:ILE:HG21	1:131:A:ALA:H	10	1.1
(1,763)	1:77:A:ILE:HD11	1:146:A:VAL:HG11	10	1.1
(1,763)	1:77:A:ILE:HD11	1:146:A:VAL:HG21	10	1.1
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	7	1.1
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	1	1.1
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	1	1.1
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	2	1.1
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	2	1.1
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	14	1.1
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	14	1.1
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	3	1.1
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	13	1.1
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	11	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	11	1.1
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	11	1.1
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	11	1.1
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	10	1.1
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	11	1.1
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	11	1.1
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	3	1.1
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	4	1.09
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	4	1.09
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	14	1.09
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	14	1.09
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	15	1.09
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	15	1.09
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	9	1.09
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	9	1.09
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	12	1.09
(1,1656)	1:124:A:GLU:HB2	1:125:A:ILE:HD11	10	1.09
(1,1656)	1:124:A:GLU:HB3	1:125:A:ILE:HD11	10	1.09
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	6	1.09
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	20	1.09
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	14	1.09
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	14	1.09
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	16	1.09
(1,1301)	1:101:A:VAL:HG21	1:121:A:GLU:HA	10	1.09
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	3	1.09
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	11	1.09
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	14	1.09
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	10	1.09
(1,586)	1:72:A:VAL:H	1:123:A:VAL:HG21	11	1.09
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	14	1.09
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	15	1.09
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	15	1.09
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	6	1.09
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	7	1.09
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	20	1.09
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	2	1.09
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	10	1.09
(1,1748)	1:128:A:VAL:HG21	1:131:A:ALA:HB3	11	1.08
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	8	1.08
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	8	1.08
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	20	1.08
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	20	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	7	1.08
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	2	1.08
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	11	1.08
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	2	1.08
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	11	1.08
(1,1219)	1:96:A:GLN:HA	1:101:A:VAL:HG11	12	1.08
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	11	1.08
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	11	1.08
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	11	1.08
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	11	1.08
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	8	1.08
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	8	1.08
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	6	1.08
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	8	1.08
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	11	1.08
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	12	1.08
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	4	1.08
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	4	1.08
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	9	1.08
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	9	1.08
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	5	1.08
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	8	1.08
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	19	1.08
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB2	12	1.08
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB3	12	1.08
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	2	1.08
(1,238)	1:55:A:ALA:H	1:59:A:SER:HB2	11	1.08
(1,238)	1:55:A:ALA:H	1:59:A:SER:HB3	11	1.08
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	13	1.07
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	13	1.07
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	16	1.07
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	16	1.07
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	15	1.07
(1,1978)	1:139:A:LEU:HG	1:144:A:LEU:HG	11	1.07
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	7	1.07
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	6	1.07
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	6	1.07
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	3	1.07
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	3	1.07
(1,1405)	1:106:A:ILE:HD11	1:118:A:ALA:HB3	3	1.07
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	6	1.07
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	6	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	12	1.07
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	7	1.07
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	12	1.07
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	20	1.07
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	13	1.07
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	1	1.07
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	1	1.07
(1,377)	1:64:A:ALA:HA	1:67:A:ALA:H	11	1.07
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	1	1.07
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	1	1.07
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	9	1.07
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	9	1.07
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	13	1.07
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	12	1.06
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	12	1.06
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	6	1.06
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	14	1.06
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	13	1.06
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	12	1.06
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	12	1.06
(1,921)	1:82:A:VAL:HA	1:144:A:LEU:HD21	10	1.06
(1,765)	1:77:A:ILE:HD11	1:95:A:PHE:HE2	2	1.06
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	20	1.06
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	15	1.06
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	15	1.06
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	15	1.06
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	17	1.06
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	11	1.06
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	18	1.06
(1,213)	1:52:A:GLU:HA	1:53:A:MET:HG2	11	1.06
(1,213)	1:52:A:GLU:HA	1:53:A:MET:HG3	11	1.06
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	11	1.06
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	11	1.06
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	11	1.06
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	11	1.06
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	13	1.05
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	2	1.05
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	2	1.05
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	13	1.05
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	13	1.05
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	20	1.05
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	20	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	1	1.05
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	15	1.05
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	20	1.05
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	7	1.05
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	18	1.05
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	15	1.05
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	19	1.05
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	4	1.05
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	20	1.05
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	10	1.05
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	10	1.05
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	17	1.05
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	20	1.05
(1,163)	1:49:A:VAL:HG21	1:50:A:GLU:HA	11	1.05
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	1	1.04
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	1	1.04
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	8	1.04
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	8	1.04
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	13	1.04
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	10	1.04
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	4	1.04
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG12	10	1.04
(1,1130)	1:91:A:VAL:HG21	1:106:A:ILE:HG13	10	1.04
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	14	1.04
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	18	1.04
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	10	1.04
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	10	1.04
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	17	1.04
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	4	1.04
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	14	1.04
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	16	1.04
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	17	1.04
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	13	1.04
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	14	1.04
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	16	1.04
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	18	1.04
(1,630)	1:72:A:VAL:HG21	1:123:A:VAL:HA	11	1.04
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	17	1.04
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	17	1.04
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	4	1.04
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	4	1.04
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	19	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	8	1.04
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	10	1.04
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	6	1.03
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	6	1.03
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	8	1.03
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	18	1.03
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	20	1.03
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	12	1.03
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	5	1.03
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	17	1.03
(1,1498)	1:110:A:LYS:HB2	1:110:A:LYS:HE2	11	1.03
(1,1498)	1:110:A:LYS:HB2	1:110:A:LYS:HE3	11	1.03
(1,1498)	1:110:A:LYS:HB3	1:110:A:LYS:HE2	11	1.03
(1,1498)	1:110:A:LYS:HB3	1:110:A:LYS:HE3	11	1.03
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	6	1.03
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	10	1.03
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	12	1.03
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	7	1.03
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	7	1.03
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	3	1.03
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	14	1.03
(1,507)	1:69:A:LYS:HB2	1:73:A:ASP:HB2	11	1.03
(1,507)	1:69:A:LYS:HB2	1:73:A:ASP:HB3	11	1.03
(1,507)	1:69:A:LYS:HB3	1:73:A:ASP:HB2	11	1.03
(1,507)	1:69:A:LYS:HB3	1:73:A:ASP:HB3	11	1.03
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	6	1.03
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	6	1.03
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	17	1.03
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	17	1.03
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	11	1.03
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	11	1.03
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	5	1.02
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	5	1.02
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	10	1.02
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	10	1.02
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	3	1.02
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	8	1.02
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	9	1.02
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	19	1.02
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	1	1.02
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	1	1.02
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	1	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	13	1.02
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	20	1.02
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	12	1.02
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	4	1.02
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	4	1.02
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	14	1.02
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	14	1.02
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	12	1.02
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	9	1.02
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	19	1.02
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	19	1.02
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	14	1.02
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	5	1.02
(1,41)	1:43:A:ARG:HA	1:45:A:MET:HG2	12	1.02
(1,41)	1:43:A:ARG:HA	1:45:A:MET:HG3	12	1.02
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	14	1.01
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	3	1.01
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	3	1.01
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	11	1.01
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	18	1.01
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	18	1.01
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	20	1.01
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	20	1.01
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	1	1.01
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	8	1.01
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	8	1.01
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	17	1.01
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	11	1.01
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	11	1.01
(1,1284)	1:101:A:VAL:HB	1:120:A:VAL:HA	11	1.01
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	19	1.01
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	17	1.01
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	7	1.01
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	7	1.01
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	15	1.01
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	15	1.01
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	17	1.01
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	20	1.01
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	20	1.01
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	5	1.01
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	5	1.01
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	6	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	6	1.01
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	20	1.01
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	13	1.01
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	14	1.01
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	14	1.01
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	5	1.01
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	14	1.01
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	15	1.01
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	12	1.01
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	12	1.01
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	6	1.01
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	15	1.01
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	20	1.01
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	19	1.01
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	18	1.0
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	20	1.0
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	14	1.0
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	6	1.0
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	6	1.0
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	13	1.0
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	6	1.0
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	2	1.0
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	2	1.0
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	13	1.0
(1,769)	1:77:A:ILE:HG21	1:131:A:ALA:HB3	12	1.0
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	3	1.0
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	3	1.0
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	14	1.0
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	16	1.0
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	16	1.0
(1,202)	1:51:A:LYS:HB2	1:51:A:LYS:HE2	11	1.0
(1,202)	1:51:A:LYS:HB2	1:51:A:LYS:HE3	11	1.0
(1,202)	1:51:A:LYS:HB3	1:51:A:LYS:HE2	11	1.0
(1,202)	1:51:A:LYS:HB3	1:51:A:LYS:HE3	11	1.0
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	1	1.0
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	13	0.99
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	10	0.99
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	3	0.99
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	4	0.99
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	12	0.99
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	12	0.99
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	14	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	14	0.99
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	13	0.99
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	13	0.99
(1,1441)	1:108:A:THR:HA	1:108:A:THR:HG21	10	0.99
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	3	0.99
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	5	0.99
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	12	0.99
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	12	0.99
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB2	19	0.99
(1,1292)	1:101:A:VAL:HG21	1:102:A:ASN:HB3	19	0.99
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	2	0.99
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	15	0.99
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	20	0.99
(1,1124)	1:91:A:VAL:HB	1:104:A:VAL:HG21	9	0.99
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	12	0.99
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	12	0.99
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	12	0.99
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	12	0.99
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	10	0.99
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	3	0.99
(1,811)	1:78:A:TYR:HE1	1:81:A:ASN:H	18	0.99
(1,619)	1:72:A:VAL:HG11	1:121:A:GLU:HB2	11	0.99
(1,619)	1:72:A:VAL:HG11	1:121:A:GLU:HB3	11	0.99
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	1	0.99
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	3	0.99
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	3	0.99
(1,510)	1:69:A:LYS:HD2	1:72:A:VAL:H	11	0.99
(1,510)	1:69:A:LYS:HD3	1:72:A:VAL:H	11	0.99
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	4	0.99
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	4	0.99
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	15	0.99
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	17	0.99
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	18	0.99
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	19	0.99
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	19	0.99
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	7	0.99
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	7	0.99
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	19	0.99
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	19	0.99
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	4	0.99
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	12	0.99
(1,353)	1:62:A:THR:HG21	1:63:A:SER:HA	11	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:55:A:ALA:HA	1:56:A:VAL:HG21	16	0.99
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	12	0.99
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	12	0.99
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	12	0.98
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	16	0.98
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	16	0.98
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	13	0.98
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	20	0.98
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	20	0.98
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	11	0.98
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	11	0.98
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	5	0.98
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	13	0.98
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	14	0.98
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	8	0.98
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	9	0.98
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	20	0.98
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	20	0.98
(1,940)	1:82:A:VAL:HG21	1:118:A:ALA:H	11	0.98
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	14	0.98
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	4	0.98
(1,862)	1:79:A:VAL:HG21	1:144:A:LEU:HD21	10	0.98
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	12	0.98
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	4	0.98
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	5	0.98
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	5	0.98
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	3	0.98
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	3	0.98
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	13	0.98
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	16	0.98
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	16	0.98
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	1	0.98
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	1	0.98
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	1	0.98
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	7	0.98
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	18	0.98
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE2	12	0.98
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE3	12	0.98
(1,123)	1:48:A:LYS:HA	1:48:A:LYS:HE2	10	0.98
(1,123)	1:48:A:LYS:HA	1:48:A:LYS:HE3	10	0.98
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	12	0.98
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	12	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	12	0.98
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	12	0.98
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	9	0.97
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	10	0.97
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	1	0.97
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	13	0.97
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	17	0.97
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	17	0.97
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	6	0.97
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	6	0.97
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	18	0.97
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	18	0.97
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	18	0.97
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	1	0.97
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	1	0.97
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	8	0.97
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	8	0.97
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	18	0.97
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	18	0.97
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	1	0.97
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	1	0.97
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	3	0.97
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	3	0.97
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	2	0.97
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	2	0.97
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	13	0.97
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	15	0.97
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	17	0.97
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	20	0.97
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	11	0.97
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	11	0.97
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	14	0.97
(1,35)	1:43:A:ARG:H	1:46:A:GLN:HG2	10	0.97
(1,35)	1:43:A:ARG:H	1:46:A:GLN:HG3	10	0.97
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	15	0.97
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	18	0.96
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	12	0.96
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	15	0.96
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	15	0.96
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	15	0.96
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	4	0.96
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	4	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	16	0.96
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	8	0.96
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	4	0.96
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	14	0.96
(1,1285)	1:101:A:VAL:HB	1:120:A:VAL:HB	11	0.96
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	10	0.96
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	10	0.96
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	9	0.96
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG2	10	0.96
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG3	10	0.96
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG2	10	0.96
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG3	10	0.96
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	19	0.96
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	19	0.96
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	3	0.96
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	14	0.96
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	14	0.96
(1,494)	1:69:A:LYS:HA	1:73:A:ASP:HB2	11	0.96
(1,494)	1:69:A:LYS:HA	1:73:A:ASP:HB3	11	0.96
(1,473)	1:68:A:GLU:HG2	1:123:A:VAL:HG21	7	0.96
(1,473)	1:68:A:GLU:HG3	1:123:A:VAL:HG21	7	0.96
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	8	0.96
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	8	0.96
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	13	0.96
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	14	0.96
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	3	0.96
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	7	0.96
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	20	0.96
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	14	0.96
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	12	0.96
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	12	0.96
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	12	0.96
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	12	0.96
(1,55)	1:45:A:MET:H	1:45:A:MET:HG2	12	0.96
(1,55)	1:45:A:MET:H	1:45:A:MET:HG3	12	0.96
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	12	0.95
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	19	0.95
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	2	0.95
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	14	0.95
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	14	0.95
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	5	0.95
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	18	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	9	0.95
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	11	0.95
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	11	0.95
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	8	0.95
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	17	0.95
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	4	0.95
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	4	0.95
(1,629)	1:72:A:VAL:HG21	1:123:A:VAL:H	12	0.95
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB2	10	0.95
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB3	10	0.95
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	15	0.95
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	15	0.95
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	18	0.95
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	17	0.95
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE2	12	0.95
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE3	12	0.95
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	8	0.94
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	14	0.94
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	14	0.94
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	15	0.94
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	15	0.94
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	11	0.94
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	11	0.94
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	11	0.94
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	11	0.94
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	19	0.94
(1,1751)	1:128:A:VAL:HG21	1:132:A:LEU:HB2	11	0.94
(1,1751)	1:128:A:VAL:HG21	1:132:A:LEU:HB3	11	0.94
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	20	0.94
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	19	0.94
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	19	0.94
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	11	0.94
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	17	0.94
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	17	0.94
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	8	0.94
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	20	0.94
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	2	0.94
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	2	0.94
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	16	0.94
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	16	0.94
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	3	0.94
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	3	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	12	0.94
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	12	0.94
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	3	0.94
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	8	0.94
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	8	0.94
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	19	0.94
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	20	0.94
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	20	0.94
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	19	0.94
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	19	0.94
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	16	0.94
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	16	0.94
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	18	0.94
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	10	0.94
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	19	0.94
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	13	0.94
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	12	0.93
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	1	0.93
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	16	0.93
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	11	0.93
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	18	0.93
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	18	0.93
(1,1379)	1:105:A:THR:HG21	1:106:A:ILE:HA	12	0.93
(1,1358)	1:104:A:VAL:HG11	1:105:A:THR:H	11	0.93
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	12	0.93
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	12	0.93
(1,1128)	1:91:A:VAL:HG21	1:106:A:ILE:HB	10	0.93
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	16	0.93
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	3	0.93
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	17	0.93
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	17	0.93
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	11	0.93
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	11	0.93
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG2	11	0.93
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG3	11	0.93
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	15	0.93
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	15	0.93
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	16	0.93
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	16	0.93
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	4	0.93
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	9	0.93
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	16	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	17	0.92
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	19	0.92
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	11	0.92
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	14	0.92
(1,1504)	1:110:A:LYS:HD2	1:115:A:LYS:HE2	11	0.92
(1,1504)	1:110:A:LYS:HD2	1:115:A:LYS:HE3	11	0.92
(1,1504)	1:110:A:LYS:HD3	1:115:A:LYS:HE2	11	0.92
(1,1504)	1:110:A:LYS:HD3	1:115:A:LYS:HE3	11	0.92
(1,1503)	1:110:A:LYS:HD2	1:115:A:LYS:HD2	11	0.92
(1,1503)	1:110:A:LYS:HD2	1:115:A:LYS:HD3	11	0.92
(1,1503)	1:110:A:LYS:HD3	1:115:A:LYS:HD2	11	0.92
(1,1503)	1:110:A:LYS:HD3	1:115:A:LYS:HD3	11	0.92
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	14	0.92
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	17	0.92
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	10	0.92
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	10	0.92
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	19	0.92
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	19	0.92
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	2	0.92
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	6	0.92
(1,1359)	1:104:A:VAL:HG11	1:105:A:THR:HA	10	0.92
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	3	0.92
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	20	0.92
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	20	0.92
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	11	0.92
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	1	0.92
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	12	0.92
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	12	0.92
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	14	0.92
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	19	0.92
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	16	0.92
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	16	0.92
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	7	0.92
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	7	0.92
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	10	0.92
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	10	0.92
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	13	0.92
(1,314)	1:58:A:ASP:HB2	1:61:A:SER:HB2	11	0.92
(1,314)	1:58:A:ASP:HB2	1:61:A:SER:HB3	11	0.92
(1,314)	1:58:A:ASP:HB3	1:61:A:SER:HB2	11	0.92
(1,314)	1:58:A:ASP:HB3	1:61:A:SER:HB3	11	0.92
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	10	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	10	0.92
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	3	0.92
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	15	0.92
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	16	0.92
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	16	0.92
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	10	0.91
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	15	0.91
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	3	0.91
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	5	0.91
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	4	0.91
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	4	0.91
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	17	0.91
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	17	0.91
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	18	0.91
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	18	0.91
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	14	0.91
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	14	0.91
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	9	0.91
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	1	0.91
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	17	0.91
(1,1310)	1:102:A:ASN:HB2	1:122:A:PHE:HA	10	0.91
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	11	0.91
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	16	0.91
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	13	0.91
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	11	0.91
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	4	0.91
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	10	0.91
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	10	0.91
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	2	0.91
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB2	10	0.91
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB3	10	0.91
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	18	0.91
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	4	0.91
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	4	0.91
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	15	0.91
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	15	0.91
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	20	0.91
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	20	0.91
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	14	0.91
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	14	0.91
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	16	0.91
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	8	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	6	0.91
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	17	0.91
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	13	0.9
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	20	0.9
(1,1893)	1:136:A:GLU:HA	1:137:A:THR:HB	11	0.9
(1,1748)	1:128:A:VAL:HG21	1:131:A:ALA:HB3	10	0.9
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG2	12	0.9
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG3	12	0.9
(1,1693)	1:125:A:ILE:HG21	1:129:A:GLN:HG2	12	0.9
(1,1693)	1:125:A:ILE:HG21	1:129:A:GLN:HG3	12	0.9
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	11	0.9
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	11	0.9
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	2	0.9
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	14	0.9
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	14	0.9
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	1	0.9
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	3	0.9
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	7	0.9
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	17	0.9
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	12	0.9
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	12	0.9
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	8	0.9
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	15	0.9
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	14	0.9
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	14	0.9
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	11	0.9
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	20	0.9
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	20	0.9
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	8	0.9
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	13	0.9
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	17	0.9
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	20	0.9
(1,2115)	1:149:A:LYS:HG2	1:151:A:THR:HG21	12	0.89
(1,2115)	1:149:A:LYS:HG3	1:151:A:THR:HG21	12	0.89
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	11	0.89
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	11	0.89
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	17	0.89
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	2	0.89
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	16	0.89
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	3	0.89
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	4	0.89
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	1	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	1	0.89
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	16	0.89
(1,1425)	1:107:A:LEU:HA	1:107:A:LEU:HD11	10	0.89
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	2	0.89
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	5	0.89
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	5	0.89
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	15	0.89
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	16	0.89
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	11	0.89
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	8	0.89
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	8	0.89
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	13	0.89
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	14	0.89
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	1	0.89
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	19	0.89
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	15	0.89
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	1	0.89
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	1	0.89
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	1	0.89
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	18	0.89
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	18	0.89
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	14	0.89
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	14	0.88
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	6	0.88
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	18	0.88
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	19	0.88
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	19	0.88
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	10	0.88
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	6	0.88
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	15	0.88
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	11	0.88
(1,1144)	1:92:A:GLN:HA	1:104:A:VAL:HG21	10	0.88
(1,974)	1:84:A:TYR:HA	1:114:A:PRO:HA	12	0.88
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	11	0.88
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	11	0.88
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	5	0.88
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	20	0.88
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	20	0.88
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	15	0.88
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	15	0.88
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	18	0.88
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	18	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	20	0.88
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	19	0.88
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	19	0.88
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	18	0.88
(1,356)	1:62:A:THR:HG21	1:65:A:THR:HB	20	0.88
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	11	0.88
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	12	0.88
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	12	0.88
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	12	0.88
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	12	0.88
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	18	0.88
(1,2084)	1:148:A:ALA:HB3	1:149:A:LYS:HA	19	0.87
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	20	0.87
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	14	0.87
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	18	0.87
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	16	0.87
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB2	10	0.87
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB3	10	0.87
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	18	0.87
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	18	0.87
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	16	0.87
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	4	0.87
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	17	0.87
(1,1300)	1:101:A:VAL:HG21	1:121:A:GLU:H	10	0.87
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	18	0.87
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	11	0.87
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	11	0.87
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	11	0.87
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	11	0.87
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	11	0.87
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	11	0.87
(1,976)	1:84:A:TYR:HA	1:115:A:LYS:H	12	0.87
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	4	0.87
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	18	0.87
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE2	3	0.87
(1,810)	1:78:A:TYR:HE1	1:145:A:LYS:HE3	3	0.87
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD2	10	0.87
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD3	10	0.87
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD2	10	0.87
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD3	10	0.87
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	10	0.87
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	10	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,625)	1:72:A:VAL:HG11	1:73:A:ASP:HA	11	0.87
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	5	0.87
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	14	0.87
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	14	0.87
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	5	0.87
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	11	0.87
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	17	0.87
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	17	0.87
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	13	0.87
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	13	0.87
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	6	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	2	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	2	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	2	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	2	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	3	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	3	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	3	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	3	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	5	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	5	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	5	0.87
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	5	0.87
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	2	0.87
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	8	0.87
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	9	0.87
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	15	0.87
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	11	0.86
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	11	0.86
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	10	0.86
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	2	0.86
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	18	0.86
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	18	0.86
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	9	0.86
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	11	0.86
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	14	0.86
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	18	0.86
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	18	0.86
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	5	0.86
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	5	0.86
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG2	18	0.86
(1,417)	1:65:A:THR:HG21	1:69:A:LYS:HG3	18	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	1	0.86
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	1	0.86
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	1	0.86
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	1	0.86
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	18	0.86
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	18	0.86
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	18	0.86
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	18	0.86
(1,39)	1:43:A:ARG:HA	1:45:A:MET:H	10	0.86
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	9	0.85
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	9	0.85
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	5	0.85
(1,1687)	1:125:A:ILE:HG21	1:126:A:ASP:H	12	0.85
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	9	0.85
(1,1365)	1:104:A:VAL:HG21	1:120:A:VAL:HB	1	0.85
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	19	0.85
(1,1227)	1:96:A:GLN:HB2	1:101:A:VAL:HG11	10	0.85
(1,1227)	1:96:A:GLN:HB3	1:101:A:VAL:HG11	10	0.85
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	5	0.85
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	6	0.85
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	16	0.85
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	1	0.85
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	1	0.85
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	17	0.85
(1,607)	1:72:A:VAL:HA	1:75:A:ARG:HA	12	0.85
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	7	0.85
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	7	0.85
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	16	0.85
(1,561)	1:71:A:GLU:HG2	1:123:A:VAL:HA	10	0.85
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	20	0.85
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	20	0.85
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	11	0.85
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	11	0.85
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	19	0.85
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	5	0.85
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	10	0.85
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	12	0.85
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	12	0.85
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	4	0.85
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	7	0.84
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	5	0.84
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	5	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	11	0.84
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	17	0.84
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	14	0.84
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	4	0.84
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	16	0.84
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	6	0.84
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	10	0.84
(1,1291)	1:101:A:VAL:HG21	1:102:A:ASN:HA	20	0.84
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	9	0.84
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	12	0.84
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	12	0.84
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	8	0.84
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	6	0.84
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	6	0.84
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	14	0.84
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	14	0.84
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	18	0.84
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	18	0.84
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	6	0.84
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	6	0.84
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	17	0.84
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	20	0.84
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	20	0.84
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	14	0.84
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	4	0.84
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	16	0.84
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	10	0.84
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	10	0.84
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	10	0.84
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	10	0.84
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	6	0.84
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	9	0.83
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	15	0.83
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	6	0.83
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	6	0.83
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	1	0.83
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	8	0.83
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	15	0.83
(1,1743)	1:128:A:VAL:HG11	1:131:A:ALA:H	12	0.83
(1,1736)	1:128:A:VAL:HA	1:131:A:ALA:HB3	17	0.83
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	13	0.83
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	12	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	9	0.83
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	9	0.83
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	7	0.83
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	10	0.83
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	19	0.83
(1,994)	1:84:A:TYR:HB2	1:114:A:PRO:HA	11	0.83
(1,994)	1:84:A:TYR:HB3	1:114:A:PRO:HA	11	0.83
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	7	0.83
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	7	0.83
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	7	0.83
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	8	0.83
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	8	0.83
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	9	0.83
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	9	0.83
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	10	0.83
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	10	0.83
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	6	0.83
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	2	0.83
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	1	0.83
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	1	0.83
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	18	0.83
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	18	0.83
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	18	0.83
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	18	0.83
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	10	0.83
(1,355)	1:62:A:THR:HG21	1:65:A:THR:H	12	0.83
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	13	0.83
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	13	0.83
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	13	0.83
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	13	0.83
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	12	0.83
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	12	0.83
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	4	0.83
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	9	0.83
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	16	0.82
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	11	0.82
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	11	0.82
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	11	0.82
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	11	0.82
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	14	0.82
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	4	0.82
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	13	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	19	0.82
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	20	0.82
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	7	0.82
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	7	0.82
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	6	0.82
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	6	0.82
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	6	0.82
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	18	0.82
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	6	0.82
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	20	0.82
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	13	0.82
(1,976)	1:84:A:TYR:HA	1:115:A:LYS:H	11	0.82
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	2	0.82
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	1	0.82
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	17	0.82
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	13	0.82
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	13	0.82
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	16	0.82
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	17	0.82
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	11	0.82
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	11	0.82
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	10	0.82
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	14	0.82
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	14	0.82
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	14	0.82
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	14	0.82
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	16	0.82
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	17	0.82
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	9	0.81
(1,1927)	1:137:A:THR:HA	1:137:A:THR:HG21	11	0.81
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	11	0.81
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	2	0.81
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	9	0.81
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	16	0.81
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	13	0.81
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	13	0.81
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	7	0.81
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	15	0.81
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	4	0.81
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	12	0.81
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	12	0.81
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	15	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	15	0.81
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	12	0.81
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	7	0.81
(1,507)	1:69:A:LYS:HB2	1:73:A:ASP:HB2	12	0.81
(1,507)	1:69:A:LYS:HB2	1:73:A:ASP:HB3	12	0.81
(1,507)	1:69:A:LYS:HB3	1:73:A:ASP:HB2	12	0.81
(1,507)	1:69:A:LYS:HB3	1:73:A:ASP:HB3	12	0.81
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	13	0.81
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	13	0.81
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	13	0.81
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	13	0.81
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB2	11	0.81
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB3	11	0.81
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	10	0.81
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	10	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	4	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	4	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	4	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	4	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	6	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	6	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	6	0.81
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	6	0.81
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE2	10	0.81
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE3	10	0.81
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	20	0.81
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	13	0.8
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	15	0.8
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	9	0.8
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	3	0.8
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	11	0.8
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	11	0.8
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	1	0.8
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	4	0.8
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	2	0.8
(1,966)	1:83:A:ASP:HB2	1:86:A:CYS:H	12	0.8
(1,966)	1:83:A:ASP:HB3	1:86:A:CYS:H	12	0.8
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	6	0.8
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	4	0.8
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	4	0.8
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	4	0.8
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	15	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	15	0.8
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	20	0.8
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	20	0.8
(1,623)	1:72:A:VAL:HG11	1:123:A:VAL:H	11	0.8
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	13	0.8
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	16	0.8
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	16	0.8
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	2	0.8
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	2	0.8
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	7	0.8
(1,219)	1:52:A:GLU:HB2	1:53:A:MET:HG2	11	0.8
(1,219)	1:52:A:GLU:HB2	1:53:A:MET:HG3	11	0.8
(1,219)	1:52:A:GLU:HB3	1:53:A:MET:HG2	11	0.8
(1,219)	1:52:A:GLU:HB3	1:53:A:MET:HG3	11	0.8
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG2	11	0.8
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG3	11	0.8
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	17	0.8
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	19	0.8
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	4	0.79
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	7	0.79
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	8	0.79
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	17	0.79
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	19	0.79
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	20	0.79
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	8	0.79
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	15	0.79
(1,1994)	1:140:A:HIS:HB2	1:142:A:ARG:HD2	11	0.79
(1,1994)	1:140:A:HIS:HB2	1:142:A:ARG:HD3	11	0.79
(1,1994)	1:140:A:HIS:HB3	1:142:A:ARG:HD2	11	0.79
(1,1994)	1:140:A:HIS:HB3	1:142:A:ARG:HD3	11	0.79
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	10	0.79
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	10	0.79
(1,1687)	1:125:A:ILE:HG21	1:126:A:ASP:H	11	0.79
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	20	0.79
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	15	0.79
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	15	0.79
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	5	0.79
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	5	0.79
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	19	0.79
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	8	0.79
(1,858)	1:79:A:VAL:HG11	1:79:A:VAL:HG21	10	0.79
(1,856)	1:79:A:VAL:HG11	1:146:A:VAL:HA	11	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	11	0.79
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	11	0.79
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	5	0.79
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	5	0.79
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	2	0.79
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	5	0.79
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	11	0.79
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	11	0.79
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	12	0.79
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	12	0.79
(1,464)	1:68:A:GLU:HB2	1:123:A:VAL:HG21	18	0.79
(1,464)	1:68:A:GLU:HB3	1:123:A:VAL:HG21	18	0.79
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	14	0.79
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	14	0.79
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	15	0.79
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	15	0.79
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	15	0.79
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	15	0.79
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	7	0.79
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	11	0.79
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	8	0.79
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	8	0.79
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	8	0.79
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	8	0.79
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	14	0.79
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	15	0.79
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	1	0.78
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	2	0.78
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	3	0.78
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	18	0.78
(1,2038)	1:144:A:LEU:HD21	1:146:A:VAL:HG21	10	0.78
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	2	0.78
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	4	0.78
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	5	0.78
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	9	0.78
(1,1835)	1:132:A:LEU:HB2	1:148:A:ALA:HA	12	0.78
(1,1835)	1:132:A:LEU:HB3	1:148:A:ALA:HA	12	0.78
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	4	0.78
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	18	0.78
(1,1745)	1:128:A:VAL:HG21	1:129:A:GLN:H	7	0.78
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	18	0.78
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	9	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	20	0.78
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	19	0.78
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	17	0.78
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	17	0.78
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	2	0.78
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	11	0.78
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	20	0.78
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	5	0.78
(1,1356)	1:104:A:VAL:HB	1:120:A:VAL:HB	10	0.78
(1,1316)	1:102:A:ASN:HB2	1:121:A:GLU:HA	10	0.78
(1,1316)	1:102:A:ASN:HB3	1:121:A:GLU:HA	10	0.78
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	12	0.78
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	13	0.78
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	6	0.78
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	6	0.78
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	13	0.78
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	7	0.78
(1,505)	1:69:A:LYS:HB2	1:72:A:VAL:HG21	13	0.78
(1,505)	1:69:A:LYS:HB3	1:72:A:VAL:HG21	13	0.78
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	16	0.78
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	16	0.78
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	16	0.78
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	16	0.78
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	16	0.78
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	16	0.78
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	11	0.78
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	11	0.78
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	10	0.78
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	10	0.78
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	10	0.78
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	10	0.78
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	18	0.78
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	19	0.78
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	6	0.77
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	14	0.77
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	20	0.77
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	11	0.77
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	7	0.77
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	7	0.77
(1,1693)	1:125:A:ILE:HG21	1:129:A:GLN:HG2	10	0.77
(1,1693)	1:125:A:ILE:HG21	1:129:A:GLN:HG3	10	0.77
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	6	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	5	0.77
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	5	0.77
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	13	0.77
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	17	0.77
(1,1012)	1:85:A:ALA:HB3	1:86:A:CYS:HA	19	0.77
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	14	0.77
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	14	0.77
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	12	0.77
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	4	0.77
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	2	0.77
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	2	0.77
(1,491)	1:69:A:LYS:HA	1:72:A:VAL:HB	11	0.77
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	14	0.77
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	7	0.77
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	7	0.77
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	7	0.77
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	7	0.77
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	11	0.77
(1,2159)	1:153:A:ILE:HB	1:153:A:ILE:HD11	5	0.76
(1,2115)	1:149:A:LYS:HG2	1:151:A:THR:HG21	4	0.76
(1,2115)	1:149:A:LYS:HG3	1:151:A:THR:HG21	4	0.76
(1,2115)	1:149:A:LYS:HG2	1:151:A:THR:HG21	6	0.76
(1,2115)	1:149:A:LYS:HG3	1:151:A:THR:HG21	6	0.76
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	3	0.76
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	6	0.76
(1,1937)	1:137:A:THR:HG21	1:138:A:GLU:H	4	0.76
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	10	0.76
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	10	0.76
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	10	0.76
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	10	0.76
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	20	0.76
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	7	0.76
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	8	0.76
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	9	0.76
(1,1580)	1:117:A:PHE:H	1:118:A:ALA:HB3	10	0.76
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	9	0.76
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	15	0.76
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	18	0.76
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	18	0.76
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	12	0.76
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	19	0.76
(1,1362)	1:104:A:VAL:HG21	1:106:A:ILE:HB	10	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	9	0.76
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	19	0.76
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	9	0.76
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	3	0.76
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	3	0.76
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	17	0.76
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	17	0.76
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	13	0.76
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	13	0.76
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	20	0.76
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	20	0.76
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	20	0.76
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	20	0.76
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	17	0.76
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	17	0.76
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	3	0.76
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	11	0.75
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	11	0.75
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	9	0.75
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	16	0.75
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	17	0.75
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	9	0.75
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	14	0.75
(1,1504)	1:110:A:LYS:HD2	1:115:A:LYS:HE2	10	0.75
(1,1504)	1:110:A:LYS:HD2	1:115:A:LYS:HE3	10	0.75
(1,1504)	1:110:A:LYS:HD3	1:115:A:LYS:HE2	10	0.75
(1,1504)	1:110:A:LYS:HD3	1:115:A:LYS:HE3	10	0.75
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	6	0.75
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	6	0.75
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	6	0.75
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	13	0.75
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	15	0.75
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	16	0.75
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	10	0.75
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	2	0.75
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	10	0.75
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	14	0.75
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	1	0.75
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	15	0.75
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	15	0.75
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	3	0.75
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	19	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	19	0.75
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	12	0.75
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	7	0.75
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	6	0.75
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	6	0.75
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	1	0.75
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	3	0.75
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	5	0.75
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	5	0.75
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD2	18	0.75
(1,415)	1:65:A:THR:HG21	1:69:A:LYS:HD3	18	0.75
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	10	0.75
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	2	0.75
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	13	0.75
(1,2122)	1:150:A:ARG:HA	1:150:A:ARG:HD2	10	0.74
(1,2122)	1:150:A:ARG:HA	1:150:A:ARG:HD3	10	0.74
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	12	0.74
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	12	0.74
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	7	0.74
(1,2027)	1:144:A:LEU:HA	1:144:A:LEU:HD21	10	0.74
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	11	0.74
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	5	0.74
(1,1690)	1:125:A:ILE:HG21	1:129:A:GLN:H	10	0.74
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	3	0.74
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	7	0.74
(1,1266)	1:99:A:GLY:HA2	1:131:A:ALA:HB3	11	0.74
(1,1266)	1:99:A:GLY:HA3	1:131:A:ALA:HB3	11	0.74
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	2	0.74
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	2	0.74
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	17	0.74
(1,941)	1:82:A:VAL:HG21	1:118:A:ALA:HB3	11	0.74
(1,863)	1:79:A:VAL:HG21	1:146:A:VAL:HA	3	0.74
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	13	0.74
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	19	0.74
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	5	0.74
(1,748)	1:77:A:ILE:HB	1:146:A:VAL:HG11	12	0.74
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	1	0.73
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	5	0.73
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	13	0.73
(1,2036)	1:144:A:LEU:HD11	1:146:A:VAL:HB	12	0.73
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	12	0.73
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	20	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	20	0.73
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	7	0.73
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	3	0.73
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	8	0.73
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	15	0.73
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	14	0.73
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	17	0.73
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	11	0.73
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	11	0.73
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	1	0.73
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	1	0.73
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	17	0.73
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	17	0.73
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	17	0.73
(1,377)	1:64:A:ALA:HA	1:67:A:ALA:H	12	0.73
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	18	0.73
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	9	0.73
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	9	0.73
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	9	0.73
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	9	0.73
(1,2163)	1:153:A:ILE:HG21	1:153:A:ILE:HD11	10	0.72
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	14	0.72
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	19	0.72
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	15	0.72
(1,1666)	1:125:A:ILE:H	1:125:A:ILE:HD11	10	0.72
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	12	0.72
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	12	0.72
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	5	0.72
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	16	0.72
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	16	0.72
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	9	0.72
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	13	0.72
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	13	0.72
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA2	12	0.72
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA3	12	0.72
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA2	12	0.72
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA3	12	0.72
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	11	0.72
(1,769)	1:77:A:ILE:HG21	1:131:A:ALA:HB3	11	0.72
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	8	0.72
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	15	0.72
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	15	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	12	0.72
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	10	0.72
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	10	0.72
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	12	0.72
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	12	0.72
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	14	0.72
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	4	0.72
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	16	0.72
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	10	0.72
(1,114)	1:47:A:ALA:HB3	1:48:A:LYS:H	16	0.72
(1,2115)	1:149:A:LYS:HG2	1:151:A:THR:HG21	10	0.71
(1,2115)	1:149:A:LYS:HG3	1:151:A:THR:HG21	10	0.71
(1,1922)	1:137:A:THR:H	1:137:A:THR:HB	11	0.71
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	11	0.71
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	11	0.71
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	6	0.71
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	14	0.71
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	15	0.71
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	4	0.71
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	16	0.71
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	16	0.71
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	10	0.71
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	4	0.71
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	12	0.71
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	12	0.71
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	12	0.71
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	1	0.71
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	16	0.71
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	16	0.71
(1,622)	1:72:A:VAL:HG11	1:122:A:PHE:HB2	11	0.71
(1,622)	1:72:A:VAL:HG11	1:122:A:PHE:HB3	11	0.71
(1,504)	1:69:A:LYS:HB2	1:72:A:VAL:HB	11	0.71
(1,504)	1:69:A:LYS:HB3	1:72:A:VAL:HB	11	0.71
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG2	12	0.71
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG3	12	0.71
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	15	0.71
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	15	0.71
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	15	0.71
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	15	0.71
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	11	0.71
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	11	0.71
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	10	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	10	0.71
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	13	0.71
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	7	0.7
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	11	0.7
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	19	0.7
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	1	0.7
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	1	0.7
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	14	0.7
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	14	0.7
(1,1358)	1:104:A:VAL:HG11	1:105:A:THR:H	12	0.7
(1,1356)	1:104:A:VAL:HB	1:120:A:VAL:HB	12	0.7
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	14	0.7
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	16	0.7
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	10	0.7
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	12	0.7
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	9	0.7
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	9	0.7
(1,537)	1:70:A:GLU:HA	1:73:A:ASP:H	12	0.7
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	20	0.7
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	16	0.7
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	16	0.7
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	16	0.7
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	16	0.7
(1,140)	1:48:A:LYS:HG2	1:52:A:GLU:H	10	0.7
(1,140)	1:48:A:LYS:HG3	1:52:A:GLU:H	10	0.7
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	1	0.69
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	1	0.69
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	10	0.69
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	10	0.69
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	11	0.69
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	13	0.69
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	20	0.69
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	1	0.69
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	18	0.69
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	7	0.69
(1,1378)	1:105:A:THR:HG21	1:106:A:ILE:H	6	0.69
(1,1265)	1:99:A:GLY:HA2	1:131:A:ALA:HA	11	0.69
(1,1265)	1:99:A:GLY:HA3	1:131:A:ALA:HA	11	0.69
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	11	0.69
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	11	0.69
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	10	0.69
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	8	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	12	0.69
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	12	0.69
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	12	0.69
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	12	0.69
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	1	0.69
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	20	0.69
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	11	0.69
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	11	0.69
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	16	0.69
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	18	0.69
(1,615)	1:72:A:VAL:HB	1:75:A:ARG:HB2	12	0.69
(1,615)	1:72:A:VAL:HB	1:75:A:ARG:HB3	12	0.69
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	9	0.69
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	19	0.69
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	18	0.69
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	18	0.69
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	13	0.69
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	13	0.69
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	14	0.69
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	14	0.69
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	14	0.69
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	14	0.69
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	17	0.69
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	17	0.69
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	17	0.69
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	17	0.69
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	20	0.69
(1,79)	1:45:A:MET:HG2	1:48:A:LYS:HB2	10	0.69
(1,79)	1:45:A:MET:HG2	1:48:A:LYS:HB3	10	0.69
(1,79)	1:45:A:MET:HG3	1:48:A:LYS:HB2	10	0.69
(1,79)	1:45:A:MET:HG3	1:48:A:LYS:HB3	10	0.69
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	18	0.68
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	2	0.68
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	8	0.68
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	1	0.68
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	1	0.68
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	7	0.68
(1,1743)	1:128:A:VAL:HG11	1:131:A:ALA:H	11	0.68
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	5	0.68
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	15	0.68
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	3	0.68
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	18	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1399)	1:106:A:ILE:HB	1:106:A:ILE:HD11	5	0.68
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	17	0.68
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	17	0.68
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	12	0.68
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	5	0.68
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	17	0.68
(1,974)	1:84:A:TYR:HA	1:114:A:PRO:HA	11	0.68
(1,621)	1:72:A:VAL:HG11	1:122:A:PHE:HA	11	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	17	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	17	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	17	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	17	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	20	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	20	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	20	0.68
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	20	0.68
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	20	0.68
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	13	0.68
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB2	11	0.68
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB3	11	0.68
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	19	0.68
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	19	0.68
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB2	19	0.68
(1,288)	1:56:A:VAL:HG21	1:57:A:GLN:HB3	19	0.68
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	18	0.68
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	18	0.68
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	20	0.68
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	20	0.68
(1,238)	1:55:A:ALA:H	1:59:A:SER:HB2	10	0.68
(1,238)	1:55:A:ALA:H	1:59:A:SER:HB3	10	0.68
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	12	0.68
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	19	0.68
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	8	0.68
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	8	0.67
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	16	0.67
(1,2041)	1:144:A:LEU:HB2	1:144:A:LEU:HD21	10	0.67
(1,2041)	1:144:A:LEU:HB3	1:144:A:LEU:HD21	10	0.67
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	16	0.67
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	16	0.67
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	1	0.67
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	17	0.67
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	19	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1843)	1:133:A:LEU:HA	1:133:A:LEU:HD11	11	0.67
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	18	0.67
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	14	0.67
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	4	0.67
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	3	0.67
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	13	0.67
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	16	0.67
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	17	0.67
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	11	0.67
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	11	0.67
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	18	0.67
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	15	0.67
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	2	0.67
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	2	0.67
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	4	0.67
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	4	0.67
(1,1356)	1:104:A:VAL:HB	1:120:A:VAL:HB	11	0.67
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	6	0.67
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	12	0.67
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	12	0.67
(1,1266)	1:99:A:GLY:HA2	1:131:A:ALA:HB3	12	0.67
(1,1266)	1:99:A:GLY:HA3	1:131:A:ALA:HB3	12	0.67
(1,1226)	1:96:A:GLN:HB2	1:101:A:VAL:HB	10	0.67
(1,1226)	1:96:A:GLN:HB3	1:101:A:VAL:HB	10	0.67
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	10	0.67
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	7	0.67
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	19	0.67
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	19	0.67
(1,975)	1:84:A:TYR:HA	1:114:A:PRO:HB2	12	0.67
(1,975)	1:84:A:TYR:HA	1:114:A:PRO:HB3	12	0.67
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	2	0.67
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	9	0.67
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG11	11	0.67
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG21	11	0.67
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	9	0.67
(1,745)	1:77:A:ILE:HB	1:132:A:LEU:HB2	12	0.67
(1,745)	1:77:A:ILE:HB	1:132:A:LEU:HB3	12	0.67
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	10	0.67
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	10	0.67
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	10	0.67
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	17	0.67
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	17	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	16	0.67
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	16	0.67
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	10	0.67
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	10	0.67
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	10	0.67
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	10	0.67
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	12	0.67
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	11	0.67
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	12	0.67
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	4	0.67
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	4	0.67
(1,182)	1:50:A:GLU:HB2	1:51:A:LYS:H	11	0.67
(1,182)	1:50:A:GLU:HB3	1:51:A:LYS:H	11	0.67
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	10	0.67
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	10	0.67
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	12	0.67
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	3	0.66
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	4	0.66
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	7	0.66
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	9	0.66
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	13	0.66
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	15	0.66
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	18	0.66
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	19	0.66
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	18	0.66
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	18	0.66
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	6	0.66
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	15	0.66
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	6	0.66
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	15	0.66
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	5	0.66
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	15	0.66
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	19	0.66
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	3	0.66
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	3	0.66
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	17	0.66
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	7	0.66
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	7	0.66
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	7	0.66
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	4	0.66
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	4	0.66
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	14	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	16	0.66
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	10	0.66
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	10	0.66
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	10	0.66
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	14	0.66
(1,764)	1:77:A:ILE:HD11	1:79:A:VAL:HG11	18	0.66
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	7	0.66
(1,576)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	10	0.66
(1,576)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	10	0.66
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	6	0.66
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	1	0.66
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	1	0.66
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	12	0.66
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	2	0.66
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	15	0.66
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	18	0.66
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	13	0.66
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	1	0.65
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	2	0.65
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	17	0.65
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	20	0.65
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	11	0.65
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	20	0.65
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	20	0.65
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	5	0.65
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	17	0.65
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	14	0.65
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	12	0.65
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	12	0.65
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	1	0.65
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	10	0.65
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	6	0.65
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	11	0.65
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	11	0.65
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	3	0.65
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	15	0.65
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	10	0.65
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	10	0.65
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	15	0.65
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	15	0.65
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	8	0.65
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	10	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	10	0.65
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	3	0.65
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	8	0.65
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB2	5	0.65
(1,357)	1:62:A:THR:HG21	1:66:A:GLN:HB3	5	0.65
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	17	0.65
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	17	0.65
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	5	0.64
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	6	0.64
(1,2156)	1:153:A:ILE:HA	1:153:A:ILE:HD11	14	0.64
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	9	0.64
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	5	0.64
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	17	0.64
(1,1669)	1:125:A:ILE:HA	1:125:A:ILE:HG21	12	0.64
(1,1639)	1:123:A:VAL:HB	1:124:A:GLU:H	11	0.64
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	11	0.64
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	11	0.64
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	11	0.64
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	11	0.64
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	11	0.64
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	11	0.64
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	11	0.64
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	20	0.64
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	20	0.64
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	20	0.64
(1,851)	1:79:A:VAL:HG11	1:136:A:GLU:HB2	11	0.64
(1,851)	1:79:A:VAL:HG11	1:136:A:GLU:HB3	11	0.64
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	12	0.64
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	15	0.64
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	15	0.64
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	3	0.64
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	16	0.64
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	19	0.64
(1,333)	1:60:A:SER:HB2	1:63:A:SER:HB2	11	0.64
(1,333)	1:60:A:SER:HB2	1:63:A:SER:HB3	11	0.64
(1,333)	1:60:A:SER:HB3	1:63:A:SER:HB2	11	0.64
(1,333)	1:60:A:SER:HB3	1:63:A:SER:HB3	11	0.64
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	14	0.64
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	14	0.64
(1,2040)	1:144:A:LEU:HG	1:146:A:VAL:HG21	10	0.63
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	2	0.63
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	3	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	5	0.63
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	17	0.63
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	5	0.63
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	5	0.63
(1,1407)	1:106:A:ILE:HG21	1:106:A:ILE:HD11	10	0.63
(1,1265)	1:99:A:GLY:HA2	1:131:A:ALA:HA	12	0.63
(1,1265)	1:99:A:GLY:HA3	1:131:A:ALA:HA	12	0.63
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	7	0.63
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	15	0.63
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	7	0.63
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	7	0.63
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	11	0.63
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	10	0.63
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	14	0.63
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	1	0.63
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	6	0.63
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	10	0.63
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	10	0.63
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	18	0.63
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	18	0.63
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	16	0.63
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	13	0.62
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	1	0.62
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	16	0.62
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	18	0.62
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	4	0.62
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	2	0.62
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	7	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	1	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	2	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	4	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	5	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	6	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	7	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	9	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	11	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	13	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	14	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	15	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	16	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	17	0.62
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	19	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	20	0.62
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	13	0.62
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	18	0.62
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	20	0.62
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	11	0.62
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	3	0.62
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	3	0.62
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	19	0.62
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	19	0.62
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	12	0.62
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	12	0.62
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	5	0.62
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	5	0.62
(1,907)	1:81:A:ASN:HB2	1:145:A:LYS:H	11	0.62
(1,907)	1:81:A:ASN:HB3	1:145:A:LYS:H	11	0.62
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	6	0.62
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	9	0.62
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	12	0.62
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	12	0.62
(1,185)	1:50:A:GLU:HB2	1:51:A:LYS:HG2	10	0.62
(1,185)	1:50:A:GLU:HB2	1:51:A:LYS:HG3	10	0.62
(1,185)	1:50:A:GLU:HB3	1:51:A:LYS:HG2	10	0.62
(1,185)	1:50:A:GLU:HB3	1:51:A:LYS:HG3	10	0.62
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	12	0.62
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	12	0.62
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	11	0.61
(1,1960)	1:139:A:LEU:H	1:139:A:LEU:HD11	11	0.61
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	16	0.61
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	18	0.61
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	13	0.61
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	19	0.61
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	3	0.61
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	8	0.61
(1,1669)	1:125:A:ILE:HA	1:125:A:ILE:HG21	11	0.61
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	12	0.61
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	12	0.61
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	19	0.61
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	12	0.61
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	3	0.61
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	8	0.61
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	12	0.61
(1,1353)	1:104:A:VAL:HB	1:104:A:VAL:HG21	18	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1309)	1:102:A:ASN:HA	1:122:A:PHE:HA	10	0.61
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	15	0.61
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	15	0.61
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG11	12	0.61
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG21	12	0.61
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	3	0.61
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	5	0.61
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	5	0.61
(1,994)	1:84:A:TYR:HB2	1:114:A:PRO:HA	12	0.61
(1,994)	1:84:A:TYR:HB3	1:114:A:PRO:HA	12	0.61
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	9	0.61
(1,861)	1:79:A:VAL:HG21	1:120:A:VAL:H	12	0.61
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	10	0.61
(1,622)	1:72:A:VAL:HG11	1:122:A:PHE:HB2	10	0.61
(1,622)	1:72:A:VAL:HG11	1:122:A:PHE:HB3	10	0.61
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	11	0.61
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	11	0.61
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	11	0.61
(1,379)	1:64:A:ALA:HA	1:68:A:GLU:H	11	0.61
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	8	0.61
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	9	0.61
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	16	0.61
(1,185)	1:50:A:GLU:HB2	1:51:A:LYS:HG2	12	0.61
(1,185)	1:50:A:GLU:HB2	1:51:A:LYS:HG3	12	0.61
(1,185)	1:50:A:GLU:HB3	1:51:A:LYS:HG2	12	0.61
(1,185)	1:50:A:GLU:HB3	1:51:A:LYS:HG3	12	0.61
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	15	0.61
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	15	0.61
(1,67)	1:45:A:MET:HA	1:48:A:LYS:HB2	10	0.61
(1,67)	1:45:A:MET:HA	1:48:A:LYS:HB3	10	0.61
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	11	0.61
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	11	0.61
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	11	0.61
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	11	0.61
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	12	0.61
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	11	0.6
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	11	0.6
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	11	0.6
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	18	0.6
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	6	0.6
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG2	11	0.6
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG3	11	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	16	0.6
(1,1679)	1:125:A:ILE:HB	1:125:A:ILE:HG21	10	0.6
(1,1601)	1:120:A:VAL:HA	1:120:A:VAL:HG11	10	0.6
(1,1601)	1:120:A:VAL:HA	1:120:A:VAL:HG11	11	0.6
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	2	0.6
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	2	0.6
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	15	0.6
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	15	0.6
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	8	0.6
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	14	0.6
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	10	0.6
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	10	0.6
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	3	0.6
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	19	0.6
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	18	0.6
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	18	0.6
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG11	10	0.6
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG21	10	0.6
(1,1218)	1:96:A:GLN:HA	1:101:A:VAL:HB	10	0.6
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	10	0.6
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	1	0.6
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	1	0.6
(1,1051)	1:88:A:PRO:HB2	1:106:A:ILE:HD11	9	0.6
(1,1051)	1:88:A:PRO:HB3	1:106:A:ILE:HD11	9	0.6
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	11	0.6
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	14	0.6
(1,856)	1:79:A:VAL:HG11	1:146:A:VAL:HA	12	0.6
(1,551)	1:71:A:GLU:H	1:72:A:VAL:HB	11	0.6
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	7	0.6
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	18	0.6
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	13	0.6
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	16	0.6
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	19	0.6
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	10	0.6
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE2	10	0.6
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE3	10	0.6
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	11	0.6
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	11	0.6
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	19	0.59
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	19	0.59
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	14	0.59
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	14	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	3	0.59
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	8	0.59
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	5	0.59
(1,1684)	1:125:A:ILE:HD11	1:126:A:ASP:H	16	0.59
(1,1601)	1:120:A:VAL:HA	1:120:A:VAL:HG11	12	0.59
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	8	0.59
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	8	0.59
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	9	0.59
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	1	0.59
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	3	0.59
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	16	0.59
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	20	0.59
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	10	0.59
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	10	0.59
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	2	0.59
(1,1231)	1:96:A:GLN:HG2	1:101:A:VAL:HG11	12	0.59
(1,1231)	1:96:A:GLN:HG3	1:101:A:VAL:HG11	12	0.59
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	5	0.59
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	5	0.59
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	6	0.59
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	6	0.59
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	19	0.59
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	19	0.59
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	6	0.59
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	11	0.59
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	12	0.59
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	18	0.59
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	20	0.59
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	7	0.59
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	18	0.59
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	10	0.59
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	10	0.59
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	10	0.59
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	10	0.59
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	12	0.59
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	12	0.59
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	8	0.59
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	8	0.59
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	11	0.59
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	6	0.59
(1,740)	1:77:A:ILE:HA	1:77:A:ILE:HD11	15	0.59
(1,740)	1:77:A:ILE:HA	1:77:A:ILE:HD11	19	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD2	12	0.59
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD3	12	0.59
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD2	12	0.59
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD3	12	0.59
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	10	0.59
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	10	0.59
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	14	0.59
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	18	0.59
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	18	0.59
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	1	0.59
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	1	0.59
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	4	0.59
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	10	0.59
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	10	0.59
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	20	0.59
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	10	0.59
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	10	0.59
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	13	0.58
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	13	0.58
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	15	0.58
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	15	0.58
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	15	0.58
(1,1881)	1:135:A:ASN:HB2	1:146:A:VAL:HB	12	0.58
(1,1881)	1:135:A:ASN:HB3	1:146:A:VAL:HB	12	0.58
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	4	0.58
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	14	0.58
(1,1848)	1:133:A:LEU:HG	1:133:A:LEU:HD11	11	0.58
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	11	0.58
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	11	0.58
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	4	0.58
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	11	0.58
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	1	0.58
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	2	0.58
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	3	0.58
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	6	0.58
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	7	0.58
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	8	0.58
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	13	0.58
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	18	0.58
(1,1431)	1:107:A:LEU:HG	1:107:A:LEU:HD11	10	0.58
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	10	0.58
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	18	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	1	0.58
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	5	0.58
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	5	0.58
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	5	0.58
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	7	0.58
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	7	0.58
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	17	0.58
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	13	0.58
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	13	0.58
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	17	0.58
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	17	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	1	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	2	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	3	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	7	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	8	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	14	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	15	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	16	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	17	0.58
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	19	0.58
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	3	0.58
(1,1008)	1:85:A:ALA:HA	1:85:A:ALA:HB3	13	0.58
(1,1008)	1:85:A:ALA:HA	1:85:A:ALA:HB3	15	0.58
(1,1008)	1:85:A:ALA:HA	1:85:A:ALA:HB3	16	0.58
(1,1008)	1:85:A:ALA:HA	1:85:A:ALA:HB3	20	0.58
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	6	0.58
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	12	0.58
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	12	0.58
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	12	0.58
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	12	0.58
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	19	0.58
(1,755)	1:77:A:ILE:HB	1:77:A:ILE:HG21	10	0.58
(1,740)	1:77:A:ILE:HA	1:77:A:ILE:HD11	16	0.58
(1,607)	1:72:A:VAL:HA	1:75:A:ARG:HA	11	0.58
(1,516)	1:69:A:LYS:HE2	1:73:A:ASP:HA	12	0.58
(1,516)	1:69:A:LYS:HE3	1:73:A:ASP:HA	12	0.58
(1,494)	1:69:A:LYS:HA	1:73:A:ASP:HB2	12	0.58
(1,494)	1:69:A:LYS:HA	1:73:A:ASP:HB3	12	0.58
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	1	0.58
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	11	0.58
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	14	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	11	0.58
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	11	0.58
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	10	0.58
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	12	0.58
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	17	0.58
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	6	0.58
(1,2138)	1:151:A:THR:HA	1:151:A:THR:HB	11	0.57
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	7	0.57
(1,1848)	1:133:A:LEU:HG	1:133:A:LEU:HD11	10	0.57
(1,1848)	1:133:A:LEU:HG	1:133:A:LEU:HD11	12	0.57
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	13	0.57
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	16	0.57
(1,1505)	1:110:A:LYS:HD2	1:115:A:LYS:HG2	11	0.57
(1,1505)	1:110:A:LYS:HD2	1:115:A:LYS:HG3	11	0.57
(1,1505)	1:110:A:LYS:HD3	1:115:A:LYS:HG2	11	0.57
(1,1505)	1:110:A:LYS:HD3	1:115:A:LYS:HG3	11	0.57
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB2	10	0.57
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB3	10	0.57
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB2	10	0.57
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB3	10	0.57
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD2	19	0.57
(1,1459)	1:108:A:THR:HG21	1:115:A:LYS:HD3	19	0.57
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	4	0.57
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	5	0.57
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	15	0.57
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	16	0.57
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	17	0.57
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	19	0.57
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	20	0.57
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	2	0.57
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	17	0.57
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	8	0.57
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	8	0.57
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	13	0.57
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	13	0.57
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	5	0.57
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	13	0.57
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	19	0.57
(1,1008)	1:85:A:ALA:HA	1:85:A:ALA:HB3	14	0.57
(1,1008)	1:85:A:ALA:HA	1:85:A:ALA:HB3	17	0.57
(1,1008)	1:85:A:ALA:HA	1:85:A:ALA:HB3	18	0.57
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	15	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,760)	1:77:A:ILE:HD11	1:120:A:VAL:H	2	0.57
(1,740)	1:77:A:ILE:HA	1:77:A:ILE:HD11	13	0.57
(1,740)	1:77:A:ILE:HA	1:77:A:ILE:HD11	18	0.57
(1,566)	1:71:A:GLU:HG3	1:125:A:ILE:HD11	10	0.57
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	7	0.57
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	18	0.57
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	3	0.57
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE2	12	0.57
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE3	12	0.57
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE2	12	0.57
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE3	12	0.57
(1,46)	1:43:A:ARG:HB2	1:45:A:MET:HA	10	0.57
(1,46)	1:43:A:ARG:HB3	1:45:A:MET:HA	10	0.57
(1,2161)	1:153:A:ILE:HB	1:153:A:ILE:HG21	10	0.56
(1,2161)	1:153:A:ILE:HB	1:153:A:ILE:HG21	11	0.56
(1,2161)	1:153:A:ILE:HB	1:153:A:ILE:HG21	12	0.56
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	10	0.56
(1,1843)	1:133:A:LEU:HA	1:133:A:LEU:HD11	10	0.56
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	20	0.56
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	19	0.56
(1,1687)	1:125:A:ILE:HG21	1:126:A:ASP:H	10	0.56
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	19	0.56
(1,1448)	1:108:A:THR:HB	1:108:A:THR:HG21	14	0.56
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	7	0.56
(1,1311)	1:102:A:ASN:HB2	1:123:A:VAL:HG21	10	0.56
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB2	10	0.56
(1,1302)	1:101:A:VAL:HG21	1:122:A:PHE:HB3	10	0.56
(1,1277)	1:101:A:VAL:HA	1:103:A:ARG:H	12	0.56
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	4	0.56
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	4	0.56
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	4	0.56
(1,1126)	1:91:A:VAL:HB	1:91:A:VAL:HG21	9	0.56
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	6	0.56
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	6	0.56
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	6	0.56
(1,851)	1:79:A:VAL:HG11	1:136:A:GLU:HB2	12	0.56
(1,851)	1:79:A:VAL:HG11	1:136:A:GLU:HB3	12	0.56
(1,776)	1:77:A:ILE:HG21	1:77:A:ILE:HG12	11	0.56
(1,776)	1:77:A:ILE:HG21	1:77:A:ILE:HG13	11	0.56
(1,761)	1:77:A:ILE:HD11	1:120:A:VAL:HG11	2	0.56
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	8	0.56
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	12	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	12	0.56
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	10	0.56
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	10	0.56
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	15	0.56
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	10	0.56
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	10	0.56
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	2	0.56
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	2	0.56
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB2	18	0.56
(1,414)	1:65:A:THR:HG21	1:69:A:LYS:HB3	18	0.56
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	4	0.56
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	4	0.56
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	9	0.56
(1,1994)	1:140:A:HIS:HB2	1:142:A:ARG:HD2	10	0.55
(1,1994)	1:140:A:HIS:HB2	1:142:A:ARG:HD3	10	0.55
(1,1994)	1:140:A:HIS:HB3	1:142:A:ARG:HD2	10	0.55
(1,1994)	1:140:A:HIS:HB3	1:142:A:ARG:HD3	10	0.55
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	8	0.55
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	8	0.55
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	17	0.55
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	17	0.55
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	20	0.55
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	11	0.55
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	2	0.55
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	13	0.55
(1,1586)	1:118:A:ALA:HA	1:118:A:ALA:HB3	10	0.55
(1,1586)	1:118:A:ALA:HA	1:118:A:ALA:HB3	12	0.55
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	10	0.55
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	10	0.55
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	15	0.55
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	10	0.55
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	10	0.55
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	12	0.55
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	1	0.55
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	1	0.55
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	18	0.55
(1,1277)	1:101:A:VAL:HA	1:103:A:ARG:H	11	0.55
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	11	0.55
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	10	0.55
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	14	0.55
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	14	0.55
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	7	0.55
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	2	0.55
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	4	0.55
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	7	0.55
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	8	0.55
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	15	0.55
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	16	0.55
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	18	0.55
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	19	0.55
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	6	0.55
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	14	0.55
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	17	0.55
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	12	0.55
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG2	12	0.55
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG3	12	0.55
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	16	0.55
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	16	0.55
(1,139)	1:48:A:LYS:HG2	1:51:A:LYS:H	10	0.55
(1,139)	1:48:A:LYS:HG3	1:51:A:LYS:H	10	0.55
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	12	0.54
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	13	0.54
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	15	0.54
(1,1586)	1:118:A:ALA:HA	1:118:A:ALA:HB3	11	0.54
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	15	0.54
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	17	0.54
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	18	0.54
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	6	0.54
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	12	0.54
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	13	0.54
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	19	0.54
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	11	0.54
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	11	0.54
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	18	0.54
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	11	0.54
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	12	0.54
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	10	0.54
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	10	0.54
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	1	0.54
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	1	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	1	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	3	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	5	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	6	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	9	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	11	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	13	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	14	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	17	0.54
(1,931)	1:82:A:VAL:HB	1:82:A:VAL:HG21	20	0.54
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	11	0.54
(1,776)	1:77:A:ILE:HG21	1:77:A:ILE:HG12	12	0.54
(1,776)	1:77:A:ILE:HG21	1:77:A:ILE:HG13	12	0.54
(1,740)	1:77:A:ILE:HA	1:77:A:ILE:HD11	14	0.54
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	19	0.54
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	19	0.54
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	15	0.54
(1,352)	1:62:A:THR:HG21	1:63:A:SER:H	5	0.54
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	15	0.54
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	19	0.54
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	12	0.53
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	12	0.53
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	2	0.53
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	6	0.53
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	9	0.53
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	14	0.53
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	17	0.53
(1,1738)	1:128:A:VAL:HB	1:131:A:ALA:HB3	17	0.53
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	17	0.53
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	17	0.53
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	19	0.53
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	19	0.53
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	11	0.53
(1,1446)	1:108:A:THR:HA	1:115:A:LYS:HB2	10	0.53
(1,1446)	1:108:A:THR:HA	1:115:A:LYS:HB3	10	0.53
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	18	0.53
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	5	0.53
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	9	0.53
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	7	0.53
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	16	0.53
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	16	0.53
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	4	0.53
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG2	12	0.53
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG3	12	0.53
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	6	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	19	0.53
(1,975)	1:84:A:TYR:HA	1:114:A:PRO:HB2	11	0.53
(1,975)	1:84:A:TYR:HA	1:114:A:PRO:HB3	11	0.53
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	16	0.53
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	16	0.53
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	3	0.53
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	6	0.53
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	11	0.53
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	17	0.53
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	12	0.53
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	14	0.53
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	14	0.53
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	5	0.53
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	10	0.53
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	13	0.53
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	14	0.53
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	15	0.53
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	17	0.53
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	19	0.53
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	20	0.53
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	11	0.53
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	11	0.53
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	17	0.53
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	9	0.53
(1,2142)	1:151:A:THR:HB	1:151:A:THR:HG21	4	0.52
(1,2142)	1:151:A:THR:HB	1:151:A:THR:HG21	6	0.52
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB2	11	0.52
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB3	11	0.52
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB2	11	0.52
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB3	11	0.52
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	12	0.52
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	12	0.52
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	12	0.52
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	12	0.52
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	6	0.52
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	20	0.52
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	13	0.52
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	14	0.52
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	19	0.52
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	19	0.52
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	12	0.52
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	12	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	4	0.52
(1,1390)	1:106:A:ILE:HA	1:106:A:ILE:HD11	11	0.52
(1,1317)	1:102:A:ASN:HB2	1:121:A:GLU:HB2	10	0.52
(1,1317)	1:102:A:ASN:HB2	1:121:A:GLU:HB3	10	0.52
(1,1317)	1:102:A:ASN:HB3	1:121:A:GLU:HB2	10	0.52
(1,1317)	1:102:A:ASN:HB3	1:121:A:GLU:HB3	10	0.52
(1,1307)	1:102:A:ASN:H	1:122:A:PHE:HA	11	0.52
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	2	0.52
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	2	0.52
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	15	0.52
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	14	0.52
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	14	0.52
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	14	0.52
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	13	0.52
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	15	0.52
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	18	0.52
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	16	0.52
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	4	0.52
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	10	0.52
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	10	0.52
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	12	0.52
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	10	0.52
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	5	0.52
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	19	0.52
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	19	0.52
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB2	19	0.52
(1,387)	1:64:A:ALA:HB3	1:68:A:GLU:HB3	19	0.52
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	11	0.52
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	16	0.52
(1,374)	1:64:A:ALA:HA	1:64:A:ALA:HB3	18	0.52
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	13	0.52
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	18	0.52
(1,51)	1:43:A:ARG:HG2	1:45:A:MET:HA	12	0.52
(1,51)	1:43:A:ARG:HG3	1:45:A:MET:HA	12	0.52
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	12	0.52
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	12	0.52
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	12	0.52
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	12	0.52
(1,22)	1:42:A:LEU:HB2	1:42:A:LEU:HD21	10	0.52
(1,22)	1:42:A:LEU:HB3	1:42:A:LEU:HD21	10	0.52
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	12	0.51
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	5	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	6	0.51
(1,1861)	1:134:A:LEU:HD11	1:134:A:LEU:HD21	8	0.51
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	15	0.51
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	16	0.51
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	16	0.51
(1,1585)	1:118:A:ALA:H	1:118:A:ALA:HB3	20	0.51
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	8	0.51
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	7	0.51
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	7	0.51
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	4	0.51
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	4	0.51
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	16	0.51
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	16	0.51
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	7	0.51
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	18	0.51
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	18	0.51
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	3	0.51
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	3	0.51
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	19	0.51
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	19	0.51
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	17	0.51
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	11	0.51
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	11	0.51
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	11	0.51
(1,852)	1:79:A:VAL:HG11	1:144:A:LEU:HD11	11	0.51
(1,852)	1:79:A:VAL:HG11	1:144:A:LEU:HD11	12	0.51
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	6	0.51
(1,615)	1:72:A:VAL:HB	1:75:A:ARG:HB2	11	0.51
(1,615)	1:72:A:VAL:HB	1:75:A:ARG:HB3	11	0.51
(1,609)	1:72:A:VAL:HB	1:123:A:VAL:HA	11	0.51
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	12	0.51
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	20	0.51
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	16	0.51
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	16	0.51
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	10	0.51
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	10	0.51
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	10	0.51
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	11	0.51
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	19	0.5
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	19	0.5
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	19	0.5
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	19	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	1	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	2	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	3	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	4	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	7	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	8	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	9	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	12	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	13	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	14	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	15	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	16	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	17	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	18	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	19	0.5
(1,1933)	1:137:A:THR:HB	1:137:A:THR:HG21	20	0.5
(1,1926)	1:137:A:THR:H	1:144:A:LEU:H	11	0.5
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	19	0.5
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	17	0.5
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	17	0.5
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	17	0.5
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	12	0.5
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	12	0.5
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	12	0.5
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	12	0.5
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	3	0.5
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	3	0.5
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	3	0.5
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	8	0.5
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	3	0.5
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	3	0.5
(1,1081)	1:89:A:GLU:HG2	1:92:A:GLN:HG2	12	0.5
(1,1081)	1:89:A:GLU:HG2	1:92:A:GLN:HG3	12	0.5
(1,1081)	1:89:A:GLU:HG3	1:92:A:GLN:HG2	12	0.5
(1,1081)	1:89:A:GLU:HG3	1:92:A:GLN:HG3	12	0.5
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	18	0.5
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	17	0.5
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	17	0.5
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	11	0.5
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	11	0.5
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	11	0.5
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	13	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:71:A:GLU:HG2	1:75:A:ARG:HG2	11	0.5
(1,584)	1:71:A:GLU:HG2	1:75:A:ARG:HG3	11	0.5
(1,584)	1:71:A:GLU:HG3	1:75:A:ARG:HG2	11	0.5
(1,584)	1:71:A:GLU:HG3	1:75:A:ARG:HG3	11	0.5
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	12	0.5
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	12	0.5
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG2	11	0.5
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG3	11	0.5
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	11	0.5
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	11	0.5
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	5	0.5
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	5	0.5
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	4	0.5
(1,34)	1:43:A:ARG:H	1:45:A:MET:HG2	12	0.5
(1,34)	1:43:A:ARG:H	1:45:A:MET:HG3	12	0.5
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	11	0.5
(1,22)	1:42:A:LEU:HB2	1:42:A:LEU:HD21	5	0.5
(1,22)	1:42:A:LEU:HB3	1:42:A:LEU:HD21	5	0.5
(1,1844)	1:133:A:LEU:HA	1:133:A:LEU:HG	10	0.49
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	16	0.49
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB2	12	0.49
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB3	12	0.49
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	9	0.49
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	11	0.49
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	18	0.49
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	18	0.49
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	8	0.49
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	10	0.49
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	10	0.49
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	7	0.49
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	11	0.49
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	6	0.49
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	6	0.49
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	11	0.49
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	12	0.49
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	12	0.49
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB2	11	0.49
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB3	11	0.49
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB2	10	0.49
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB3	10	0.49
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB2	10	0.49
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB3	10	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	14	0.49
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	19	0.49
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	12	0.49
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	12	0.49
(1,28)	1:42:A:LEU:HB2	1:42:A:LEU:HD11	10	0.49
(1,28)	1:42:A:LEU:HB3	1:42:A:LEU:HD11	10	0.49
(1,28)	1:42:A:LEU:HB2	1:42:A:LEU:HD21	10	0.49
(1,28)	1:42:A:LEU:HB3	1:42:A:LEU:HD21	10	0.49
(1,2085)	1:148:A:ALA:HB3	1:150:A:ARG:H	14	0.48
(1,1837)	1:132:A:LEU:HB2	1:149:A:LYS:H	10	0.48
(1,1837)	1:132:A:LEU:HB3	1:149:A:LYS:H	10	0.48
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	8	0.48
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	1	0.48
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	10	0.48
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	10	0.48
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	12	0.48
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	12	0.48
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	11	0.48
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	10	0.48
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	11	0.48
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	20	0.48
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	20	0.48
(1,1116)	1:91:A:VAL:HA	1:139:A:LEU:HD21	2	0.48
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	5	0.48
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	11	0.48
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	11	0.48
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	12	0.48
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	12	0.48
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	9	0.48
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	7	0.48
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	13	0.48
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	20	0.48
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	20	0.48
(1,330)	1:60:A:SER:HA	1:63:A:SER:H	11	0.48
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	12	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	11	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	12	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	13	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	14	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	15	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	16	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	17	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	18	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	19	0.48
(1,239)	1:55:A:ALA:HA	1:55:A:ALA:HB3	20	0.48
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	10	0.48
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	20	0.48
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	19	0.48
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	19	0.48
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	10	0.48
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	10	0.48
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	10	0.48
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	10	0.48
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	14	0.47
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	14	0.47
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	14	0.47
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	14	0.47
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	12	0.47
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	3	0.47
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	10	0.47
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	10	0.47
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	10	0.47
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	14	0.47
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	14	0.47
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	12	0.47
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	19	0.47
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	19	0.47
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	12	0.47
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	12	0.47
(1,1060)	1:89:A:GLU:H	1:106:A:ILE:HD11	5	0.47
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	14	0.47
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	14	0.47
(1,1020)	1:86:A:CYS:HB2	1:116:A:GLY:HA2	12	0.47
(1,1020)	1:86:A:CYS:HB2	1:116:A:GLY:HA3	12	0.47
(1,1020)	1:86:A:CYS:HB3	1:116:A:GLY:HA2	12	0.47
(1,1020)	1:86:A:CYS:HB3	1:116:A:GLY:HA3	12	0.47
(1,994)	1:84:A:TYR:HB2	1:114:A:PRO:HA	10	0.47
(1,994)	1:84:A:TYR:HB3	1:114:A:PRO:HA	10	0.47
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	4	0.47
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	4	0.47
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	1	0.47
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	3	0.47
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	8	0.47
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	10	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,552)	1:71:A:GLU:H	1:73:A:ASP:H	12	0.47
(1,512)	1:69:A:LYS:HD2	1:72:A:VAL:HG11	11	0.47
(1,512)	1:69:A:LYS:HD3	1:72:A:VAL:HG11	11	0.47
(1,512)	1:69:A:LYS:HD2	1:72:A:VAL:HG21	11	0.47
(1,512)	1:69:A:LYS:HD3	1:72:A:VAL:HG21	11	0.47
(1,410)	1:65:A:THR:HB	1:66:A:GLN:HB2	10	0.47
(1,410)	1:65:A:THR:HB	1:66:A:GLN:HB3	10	0.47
(1,354)	1:62:A:THR:HG21	1:64:A:ALA:H	10	0.47
(1,312)	1:58:A:ASP:HB2	1:59:A:SER:HA	10	0.47
(1,312)	1:58:A:ASP:HB3	1:59:A:SER:HA	10	0.47
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	10	0.47
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	10	0.47
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	11	0.47
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	20	0.47
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	11	0.46
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	11	0.46
(1,1982)	1:139:A:LEU:HB2	1:143:A:GLN:HA	11	0.46
(1,1982)	1:139:A:LEU:HB3	1:143:A:GLN:HA	11	0.46
(1,1894)	1:136:A:GLU:HA	1:138:A:GLU:H	11	0.46
(1,1790)	1:130:A:ASN:HA	1:133:A:LEU:HG	12	0.46
(1,1577)	1:116:A:GLY:HA2	1:118:A:ALA:HB3	10	0.46
(1,1577)	1:116:A:GLY:HA3	1:118:A:ALA:HB3	10	0.46
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	13	0.46
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	13	0.46
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	8	0.46
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	14	0.46
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	20	0.46
(1,1289)	1:101:A:VAL:HG11	1:120:A:VAL:HB	11	0.46
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	11	0.46
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	12	0.46
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	2	0.46
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	9	0.46
(1,947)	1:83:A:ASP:H	1:144:A:LEU:HD21	10	0.46
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	13	0.46
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	12	0.46
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	11	0.46
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	4	0.46
(1,635)	1:73:A:ASP:H	1:75:A:ARG:HB2	12	0.46
(1,635)	1:73:A:ASP:H	1:75:A:ARG:HB3	12	0.46
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	10	0.46
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	10	0.46
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	11	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	12	0.46
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	12	0.46
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	15	0.46
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	12	0.46
(1,2114)	1:149:A:LYS:HG2	1:151:A:THR:HB	12	0.45
(1,2114)	1:149:A:LYS:HG3	1:151:A:THR:HB	12	0.45
(1,2085)	1:148:A:ALA:HB3	1:150:A:ARG:H	19	0.45
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	12	0.45
(1,1819)	1:132:A:LEU:HA	1:134:A:LEU:H	12	0.45
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	7	0.45
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	19	0.45
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	20	0.45
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	11	0.45
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	16	0.45
(1,1321)	1:102:A:ASN:HB2	1:123:A:VAL:HG21	10	0.45
(1,1321)	1:102:A:ASN:HB3	1:123:A:VAL:HG21	10	0.45
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	14	0.45
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	14	0.45
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	4	0.45
(1,1155)	1:92:A:GLN:HB2	1:120:A:VAL:HB	12	0.45
(1,1155)	1:92:A:GLN:HB3	1:120:A:VAL:HB	12	0.45
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	12	0.45
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	12	0.45
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	14	0.45
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	18	0.45
(1,934)	1:82:A:VAL:HB	1:86:A:CYS:HB2	12	0.45
(1,934)	1:82:A:VAL:HB	1:86:A:CYS:HB3	12	0.45
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	11	0.45
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	11	0.45
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	9	0.45
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	11	0.45
(1,647)	1:73:A:ASP:HB2	1:151:A:THR:HG21	10	0.45
(1,647)	1:73:A:ASP:HB3	1:151:A:THR:HG21	10	0.45
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	19	0.45
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	12	0.45
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB2	12	0.45
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB3	12	0.45
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	15	0.45
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	16	0.45
(1,227)	1:53:A:MET:HA	1:56:A:VAL:HG11	10	0.45
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	10	0.45
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	10	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	10	0.45
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	10	0.45
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	2	0.44
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	2	0.44
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	10	0.44
(1,1893)	1:136:A:GLU:HA	1:137:A:THR:HB	12	0.44
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	1	0.44
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	11	0.44
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	11	0.44
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	16	0.44
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	16	0.44
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	8	0.44
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	9	0.44
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	9	0.44
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	1	0.44
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	8	0.44
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	8	0.44
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	2	0.44
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	2	0.44
(1,861)	1:79:A:VAL:HG21	1:120:A:VAL:H	11	0.44
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	14	0.44
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	2	0.44
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	5	0.44
(1,704)	1:75:A:ARG:HG2	1:125:A:ILE:HD11	11	0.44
(1,704)	1:75:A:ARG:HG3	1:125:A:ILE:HD11	11	0.44
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	15	0.44
(1,588)	1:72:A:VAL:H	1:72:A:VAL:HB	11	0.44
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	2	0.44
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	20	0.44
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	11	0.44
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	11	0.44
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	16	0.44
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	12	0.44
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	10	0.44
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	10	0.44
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	8	0.44
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	11	0.44
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	11	0.44
(1,99)	1:46:A:GLN:HB2	1:47:A:ALA:HB3	10	0.44
(1,99)	1:46:A:GLN:HB3	1:47:A:ALA:HB3	10	0.44
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	12	0.44
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	12	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2079)	1:148:A:ALA:H	1:148:A:ALA:HB3	2	0.43
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	12	0.43
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	12	0.43
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	19	0.43
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	19	0.43
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	12	0.43
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	12	0.43
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	14	0.43
(1,1829)	1:132:A:LEU:HB2	1:132:A:LEU:HD11	11	0.43
(1,1829)	1:132:A:LEU:HB3	1:132:A:LEU:HD11	11	0.43
(1,1505)	1:110:A:LYS:HD2	1:115:A:LYS:HG2	10	0.43
(1,1505)	1:110:A:LYS:HD2	1:115:A:LYS:HG3	10	0.43
(1,1505)	1:110:A:LYS:HD3	1:115:A:LYS:HG2	10	0.43
(1,1505)	1:110:A:LYS:HD3	1:115:A:LYS:HG3	10	0.43
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	12	0.43
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB2	12	0.43
(1,1380)	1:105:A:THR:HG21	1:107:A:LEU:HB3	12	0.43
(1,1313)	1:102:A:ASN:HB3	1:123:A:VAL:HG21	12	0.43
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	5	0.43
(1,1284)	1:101:A:VAL:HB	1:120:A:VAL:HA	12	0.43
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	12	0.43
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	12	0.43
(1,1030)	1:87:A:THR:HA	1:106:A:ILE:HD11	10	0.43
(1,961)	1:83:A:ASP:HB2	1:142:A:ARG:HB2	2	0.43
(1,961)	1:83:A:ASP:HB2	1:142:A:ARG:HB3	2	0.43
(1,961)	1:83:A:ASP:HB3	1:142:A:ARG:HB2	2	0.43
(1,961)	1:83:A:ASP:HB3	1:142:A:ARG:HB3	2	0.43
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	7	0.43
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	7	0.43
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	15	0.43
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	15	0.43
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	4	0.43
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	11	0.43
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	17	0.43
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB2	12	0.43
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB3	12	0.43
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB2	12	0.43
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB3	12	0.43
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	11	0.43
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	11	0.43
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	4	0.43
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	11	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	10	0.43
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	10	0.43
(1,319)	1:59:A:SER:HA	1:60:A:SER:HB2	10	0.43
(1,319)	1:59:A:SER:HA	1:60:A:SER:HB3	10	0.43
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	12	0.43
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	12	0.43
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	18	0.43
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	18	0.43
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	12	0.43
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	12	0.43
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	10	0.42
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	10	0.42
(1,2085)	1:148:A:ALA:HB3	1:150:A:ARG:H	16	0.42
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	11	0.42
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	11	0.42
(1,1972)	1:139:A:LEU:HD11	1:139:A:LEU:HD21	8	0.42
(1,1972)	1:139:A:LEU:HD11	1:139:A:LEU:HD21	11	0.42
(1,1789)	1:130:A:ASN:HA	1:133:A:LEU:HA	12	0.42
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	14	0.42
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	10	0.42
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	10	0.42
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	2	0.42
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	17	0.42
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	20	0.42
(1,1358)	1:104:A:VAL:HG11	1:105:A:THR:H	10	0.42
(1,1155)	1:92:A:GLN:HB2	1:120:A:VAL:HB	10	0.42
(1,1155)	1:92:A:GLN:HB3	1:120:A:VAL:HB	10	0.42
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	16	0.42
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	20	0.42
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	9	0.42
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	9	0.42
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	9	0.42
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	9	0.42
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	8	0.42
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	11	0.42
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	9	0.42
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	17	0.42
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	12	0.42
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	12	0.42
(1,754)	1:77:A:ILE:HB	1:77:A:ILE:HD11	20	0.42
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	12	0.42
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	12	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	11	0.42
(1,574)	1:71:A:GLU:HB2	1:74:A:SER:HB2	10	0.42
(1,574)	1:71:A:GLU:HB2	1:74:A:SER:HB3	10	0.42
(1,574)	1:71:A:GLU:HB3	1:74:A:SER:HB2	10	0.42
(1,574)	1:71:A:GLU:HB3	1:74:A:SER:HB3	10	0.42
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	13	0.42
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	8	0.42
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	15	0.42
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	10	0.42
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	10	0.42
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	11	0.42
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	11	0.42
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	11	0.42
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	16	0.42
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	16	0.42
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	12	0.42
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	12	0.42
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD2	8	0.42
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD3	8	0.42
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	11	0.42
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	11	0.42
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	2	0.42
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	4	0.41
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	4	0.41
(1,1306)	1:102:A:ASN:H	1:121:A:GLU:HA	11	0.41
(1,1266)	1:99:A:GLY:HA2	1:131:A:ALA:HB3	14	0.41
(1,1266)	1:99:A:GLY:HA3	1:131:A:ALA:HB3	14	0.41
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	12	0.41
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	12	0.41
(1,1204)	1:95:A:PHE:HE1	1:146:A:VAL:HG21	10	0.41
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	10	0.41
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	12	0.41
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	15	0.41
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	6	0.41
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	6	0.41
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	4	0.41
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	13	0.41
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	15	0.41
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	11	0.41
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	11	0.41
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	10	0.41
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	18	0.41
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	18	0.41
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	11	0.41
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	17	0.41
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	19	0.41
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	19	0.41
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	9	0.41
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	18	0.41
(1,2147)	1:152:A:ASN:HA	1:153:A:ILE:H	10	0.4
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB2	11	0.4
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB3	11	0.4
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB2	11	0.4
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB3	11	0.4
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	10	0.4
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	10	0.4
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	11	0.4
(1,1857)	1:134:A:LEU:H	1:134:A:LEU:HG	11	0.4
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	12	0.4
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	8	0.4
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	20	0.4
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	20	0.4
(1,1456)	1:108:A:THR:HG21	1:115:A:LYS:H	8	0.4
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	10	0.4
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	1	0.4
(1,1319)	1:102:A:ASN:HB2	1:122:A:PHE:HB2	10	0.4
(1,1319)	1:102:A:ASN:HB2	1:122:A:PHE:HB3	10	0.4
(1,1319)	1:102:A:ASN:HB3	1:122:A:PHE:HB2	10	0.4
(1,1319)	1:102:A:ASN:HB3	1:122:A:PHE:HB3	10	0.4
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	10	0.4
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	10	0.4
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	11	0.4
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	19	0.4
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	20	0.4
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	19	0.4
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	19	0.4
(1,956)	1:83:A:ASP:HA	1:84:A:TYR:HE1	10	0.4
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	13	0.4
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	13	0.4
(1,928)	1:82:A:VAL:HB	1:116:A:GLY:H	11	0.4
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	10	0.4
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	6	0.4
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	15	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	12	0.4
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	12	0.4
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	16	0.4
(1,618)	1:72:A:VAL:HG11	1:121:A:GLU:HA	12	0.4
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	10	0.4
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	12	0.4
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	10	0.4
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	10	0.4
(1,430)	1:66:A:GLN:HA	1:70:A:GLU:H	11	0.4
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	12	0.4
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB2	4	0.4
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB3	4	0.4
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB2	4	0.4
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB3	4	0.4
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	11	0.4
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	13	0.4
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	13	0.4
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	14	0.4
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	8	0.4
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	19	0.4
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	18	0.39
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	18	0.39
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	18	0.39
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	18	0.39
(1,2036)	1:144:A:LEU:HD11	1:146:A:VAL:HB	10	0.39
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	11	0.39
(1,1850)	1:133:A:LEU:HG	1:134:A:LEU:HD21	7	0.39
(1,1517)	1:111:A:PHE:HA	1:113:A:GLN:HG2	11	0.39
(1,1517)	1:111:A:PHE:HA	1:113:A:GLN:HG3	11	0.39
(1,1446)	1:108:A:THR:HA	1:115:A:LYS:HB2	11	0.39
(1,1446)	1:108:A:THR:HA	1:115:A:LYS:HB3	11	0.39
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	16	0.39
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	9	0.39
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB2	6	0.39
(1,1294)	1:101:A:VAL:HG21	1:103:A:ARG:HB3	6	0.39
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	11	0.39
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	11	0.39
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	12	0.39
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	12	0.39
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	12	0.39
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	12	0.39
(1,1048)	1:88:A:PRO:HB2	1:104:A:VAL:HG21	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1048)	1:88:A:PRO:HB3	1:104:A:VAL:HG21	10	0.39
(1,1048)	1:88:A:PRO:HB2	1:104:A:VAL:HG11	10	0.39
(1,1048)	1:88:A:PRO:HB3	1:104:A:VAL:HG11	10	0.39
(1,1048)	1:88:A:PRO:HB2	1:104:A:VAL:HG21	10	0.39
(1,1048)	1:88:A:PRO:HB3	1:104:A:VAL:HG21	10	0.39
(1,1020)	1:86:A:CYS:HB2	1:116:A:GLY:HA2	11	0.39
(1,1020)	1:86:A:CYS:HB2	1:116:A:GLY:HA3	11	0.39
(1,1020)	1:86:A:CYS:HB3	1:116:A:GLY:HA2	11	0.39
(1,1020)	1:86:A:CYS:HB3	1:116:A:GLY:HA3	11	0.39
(1,975)	1:84:A:TYR:HA	1:114:A:PRO:HB2	10	0.39
(1,975)	1:84:A:TYR:HA	1:114:A:PRO:HB3	10	0.39
(1,968)	1:84:A:TYR:H	1:114:A:PRO:HA	11	0.39
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	14	0.39
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	14	0.39
(1,927)	1:82:A:VAL:HB	1:115:A:LYS:HA	11	0.39
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	10	0.39
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	12	0.39
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	12	0.39
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	1	0.39
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	4	0.39
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	20	0.39
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	19	0.39
(1,749)	1:77:A:ILE:HB	1:147:A:SER:H	11	0.39
(1,620)	1:72:A:VAL:HG11	1:122:A:PHE:H	10	0.39
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	12	0.39
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	7	0.39
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	7	0.39
(1,411)	1:65:A:THR:HB	1:69:A:LYS:HB2	12	0.39
(1,411)	1:65:A:THR:HB	1:69:A:LYS:HB3	12	0.39
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB2	11	0.39
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB3	11	0.39
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB2	11	0.39
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB3	11	0.39
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	3	0.39
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	19	0.39
(1,110)	1:47:A:ALA:HA	1:49:A:VAL:HB	10	0.39
(1,54)	1:45:A:MET:H	1:45:A:MET:HB2	10	0.39
(1,54)	1:45:A:MET:H	1:45:A:MET:HB3	10	0.39
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	12	0.39
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	14	0.39
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	17	0.39
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	17	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2085)	1:148:A:ALA:HB3	1:150:A:ARG:H	18	0.38
(1,2032)	1:144:A:LEU:HD11	1:144:A:LEU:HD21	10	0.38
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	12	0.38
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	12	0.38
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	12	0.38
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	12	0.38
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	12	0.38
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	9	0.38
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	7	0.38
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	2	0.38
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	14	0.38
(1,1279)	1:101:A:VAL:HA	1:122:A:PHE:HA	11	0.38
(1,1203)	1:95:A:PHE:HE1	1:138:A:GLU:H	11	0.38
(1,1192)	1:95:A:PHE:HA	1:135:A:ASN:HA	12	0.38
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	12	0.38
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	5	0.38
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	2	0.38
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	8	0.38
(1,857)	1:79:A:VAL:HG11	1:146:A:VAL:HG11	10	0.38
(1,857)	1:79:A:VAL:HG11	1:146:A:VAL:HG21	10	0.38
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	12	0.38
(1,722)	1:76:A:SER:HB2	1:77:A:ILE:HA	10	0.38
(1,722)	1:76:A:SER:HB3	1:77:A:ILE:HA	10	0.38
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	1	0.38
(1,562)	1:71:A:GLU:HG2	1:125:A:ILE:HD11	9	0.38
(1,411)	1:65:A:THR:HB	1:69:A:LYS:HB2	11	0.38
(1,411)	1:65:A:THR:HB	1:69:A:LYS:HB3	11	0.38
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	12	0.38
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	12	0.38
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	12	0.38
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	12	0.38
(1,299)	1:57:A:GLN:HA	1:61:A:SER:HA	10	0.38
(1,250)	1:55:A:ALA:HB3	1:58:A:ASP:H	11	0.38
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	12	0.38
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	4	0.38
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	11	0.38
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	12	0.38
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD2	2	0.38
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD3	2	0.38
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	12	0.38
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	13	0.38
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	20	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	19	0.38
(1,2114)	1:149:A:LYS:HG2	1:151:A:THR:HB	10	0.37
(1,2114)	1:149:A:LYS:HG3	1:151:A:THR:HB	10	0.37
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB2	12	0.37
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB3	12	0.37
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	3	0.37
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	3	0.37
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	10	0.37
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	10	0.37
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB2	10	0.37
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB3	10	0.37
(1,1844)	1:133:A:LEU:HA	1:133:A:LEU:HG	11	0.37
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	10	0.37
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	10	0.37
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	5	0.37
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	5	0.37
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	11	0.37
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	11	0.37
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	12	0.37
(1,1318)	1:102:A:ASN:HB2	1:122:A:PHE:HA	10	0.37
(1,1318)	1:102:A:ASN:HB3	1:122:A:PHE:HA	10	0.37
(1,1309)	1:102:A:ASN:HA	1:122:A:PHE:HA	11	0.37
(1,1281)	1:101:A:VAL:HA	1:122:A:PHE:HB2	11	0.37
(1,1281)	1:101:A:VAL:HA	1:122:A:PHE:HB3	11	0.37
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	10	0.37
(1,1191)	1:95:A:PHE:HA	1:131:A:ALA:HA	11	0.37
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	10	0.37
(1,1052)	1:88:A:PRO:HB2	1:106:A:ILE:HG21	11	0.37
(1,1052)	1:88:A:PRO:HB3	1:106:A:ILE:HG21	11	0.37
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	1	0.37
(1,976)	1:84:A:TYR:HA	1:115:A:LYS:H	10	0.37
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	16	0.37
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	17	0.37
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	11	0.37
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	11	0.37
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA2	11	0.37
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA3	11	0.37
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA2	11	0.37
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA3	11	0.37
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	11	0.37
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	11	0.37
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	11	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	11	0.37
(1,872)	1:80:A:GLY:H	1:146:A:VAL:HG21	10	0.37
(1,871)	1:80:A:GLY:H	1:146:A:VAL:HA	12	0.37
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	1	0.37
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	5	0.37
(1,851)	1:79:A:VAL:HG11	1:136:A:GLU:HB2	10	0.37
(1,851)	1:79:A:VAL:HG11	1:136:A:GLU:HB3	10	0.37
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	10	0.37
(1,701)	1:75:A:ARG:HG2	1:124:A:GLU:HA	10	0.37
(1,701)	1:75:A:ARG:HG3	1:124:A:GLU:HA	10	0.37
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	3	0.37
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	3	0.37
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	13	0.37
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	10	0.37
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	10	0.37
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	11	0.37
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	11	0.37
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	19	0.37
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	19	0.37
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	1	0.37
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG2	12	0.37
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG3	12	0.37
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG2	12	0.37
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG3	12	0.37
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB2	11	0.37
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB3	11	0.37
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	2	0.37
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	2	0.37
(1,164)	1:49:A:VAL:HG21	1:52:A:GLU:H	2	0.37
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	1	0.37
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	7	0.37
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	16	0.36
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	16	0.36
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	16	0.36
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	16	0.36
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB2	11	0.36
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB3	11	0.36
(1,1922)	1:137:A:THR:H	1:137:A:THR:HB	12	0.36
(1,1920)	1:136:A:GLU:HG2	1:146:A:VAL:HG21	2	0.36
(1,1920)	1:136:A:GLU:HG3	1:146:A:VAL:HG21	2	0.36
(1,1901)	1:136:A:GLU:HA	1:146:A:VAL:HG21	11	0.36
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	11	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	5	0.36
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	7	0.36
(1,1749)	1:128:A:VAL:HG21	1:132:A:LEU:H	7	0.36
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	10	0.36
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	11	0.36
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	12	0.36
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	7	0.36
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	7	0.36
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	1	0.36
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	1	0.36
(1,1444)	1:108:A:THR:HA	1:110:A:LYS:HD2	11	0.36
(1,1444)	1:108:A:THR:HA	1:110:A:LYS:HD3	11	0.36
(1,1230)	1:96:A:GLN:HG2	1:101:A:VAL:HB	10	0.36
(1,1230)	1:96:A:GLN:HG3	1:101:A:VAL:HB	10	0.36
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	10	0.36
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	12	0.36
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	12	0.36
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	10	0.36
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	3	0.36
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	3	0.36
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	5	0.36
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	14	0.36
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	13	0.36
(1,807)	1:78:A:TYR:HA	1:79:A:VAL:HG21	12	0.36
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	5	0.36
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	11	0.36
(1,619)	1:72:A:VAL:HG11	1:121:A:GLU:HB2	12	0.36
(1,619)	1:72:A:VAL:HG11	1:121:A:GLU:HB3	12	0.36
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB2	18	0.36
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB3	18	0.36
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	8	0.36
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	8	0.36
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	10	0.36
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	10	0.36
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	12	0.36
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	12	0.36
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	19	0.36
(1,291)	1:56:A:VAL:HG21	1:60:A:SER:HB2	10	0.36
(1,291)	1:56:A:VAL:HG21	1:60:A:SER:HB3	10	0.36
(1,287)	1:56:A:VAL:HG21	1:57:A:GLN:HA	12	0.36
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	12	0.36
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	12	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	12	0.36
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	12	0.36
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	5	0.36
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	10	0.36
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	3	0.36
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	15	0.36
(1,3)	1:41:A:ALA:H	1:43:A:ARG:HB2	12	0.36
(1,3)	1:41:A:ALA:H	1:43:A:ARG:HB3	12	0.36
(1,2120)	1:150:A:ARG:HA	1:150:A:ARG:HD2	10	0.35
(1,2120)	1:150:A:ARG:HA	1:150:A:ARG:HD3	10	0.35
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	13	0.35
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	13	0.35
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	13	0.35
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	13	0.35
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	10	0.35
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	4	0.35
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	18	0.35
(1,1329)	1:103:A:ARG:HA	1:103:A:ARG:HD2	5	0.35
(1,1329)	1:103:A:ARG:HA	1:103:A:ARG:HD3	5	0.35
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	14	0.35
(1,1285)	1:101:A:VAL:HB	1:120:A:VAL:HB	12	0.35
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	11	0.35
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	10	0.35
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	12	0.35
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	20	0.35
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	20	0.35
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	7	0.35
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	13	0.35
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	17	0.35
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	14	0.35
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	3	0.35
(1,838)	1:79:A:VAL:HA	1:79:A:VAL:HG11	12	0.35
(1,838)	1:79:A:VAL:HA	1:79:A:VAL:HG21	12	0.35
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	13	0.35
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	16	0.35
(1,609)	1:72:A:VAL:HB	1:123:A:VAL:HA	12	0.35
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	11	0.35
(1,521)	1:69:A:LYS:HG2	1:73:A:ASP:H	10	0.35
(1,521)	1:69:A:LYS:HG3	1:73:A:ASP:H	10	0.35
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	6	0.35
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	6	0.35
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	2	0.35
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	17	0.35
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	17	0.35
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	20	0.35
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	10	0.35
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	12	0.35
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	14	0.35
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	10	0.35
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	10	0.35
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	10	0.35
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	10	0.35
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	11	0.35
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	18	0.35
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	11	0.34
(1,1908)	1:136:A:GLU:HB2	1:144:A:LEU:HA	10	0.34
(1,1908)	1:136:A:GLU:HB3	1:144:A:LEU:HA	10	0.34
(1,1750)	1:128:A:VAL:HG21	1:132:A:LEU:HA	4	0.34
(1,1735)	1:128:A:VAL:HA	1:131:A:ALA:HA	12	0.34
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	20	0.34
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	20	0.34
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	13	0.34
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	13	0.34
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	16	0.34
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	16	0.34
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	10	0.34
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	10	0.34
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	20	0.34
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	3	0.34
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	13	0.34
(1,1264)	1:99:A:GLY:HA2	1:131:A:ALA:H	11	0.34
(1,1264)	1:99:A:GLY:HA3	1:131:A:ALA:H	11	0.34
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	10	0.34
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA2	9	0.34
(1,1131)	1:91:A:VAL:HG21	1:116:A:GLY:HA3	9	0.34
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	12	0.34
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	12	0.34
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	15	0.34
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	16	0.34
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	18	0.34
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	19	0.34
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	20	0.34
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	9	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,838)	1:79:A:VAL:HA	1:79:A:VAL:HG11	11	0.34
(1,838)	1:79:A:VAL:HA	1:79:A:VAL:HG21	11	0.34
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	4	0.34
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	20	0.34
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	10	0.34
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	10	0.34
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	10	0.34
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	12	0.34
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	12	0.34
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	12	0.34
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	12	0.34
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	12	0.34
(1,630)	1:72:A:VAL:HG21	1:123:A:VAL:HA	12	0.34
(1,596)	1:72:A:VAL:H	1:75:A:ARG:HB2	11	0.34
(1,596)	1:72:A:VAL:H	1:75:A:ARG:HB3	11	0.34
(1,564)	1:71:A:GLU:HG2	1:72:A:VAL:H	11	0.34
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	13	0.34
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	13	0.34
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	19	0.34
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	19	0.34
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	4	0.34
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	4	0.34
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	20	0.34
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	11	0.34
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	11	0.34
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	5	0.34
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	18	0.34
(1,27)	1:42:A:LEU:HG	1:43:A:ARG:HB2	12	0.34
(1,27)	1:42:A:LEU:HG	1:43:A:ARG:HB3	12	0.34
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	12	0.33
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	12	0.33
(1,1894)	1:136:A:GLU:HA	1:138:A:GLU:H	12	0.33
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	12	0.33
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	19	0.33
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	19	0.33
(1,1517)	1:111:A:PHE:HA	1:113:A:GLN:HG2	12	0.33
(1,1517)	1:111:A:PHE:HA	1:113:A:GLN:HG3	12	0.33
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB2	12	0.33
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB3	12	0.33
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB2	12	0.33
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB3	12	0.33
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE2	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE3	3	0.33
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE2	4	0.33
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE3	4	0.33
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	12	0.33
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	19	0.33
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	19	0.33
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	18	0.33
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	15	0.33
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	3	0.33
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	16	0.33
(1,1227)	1:96:A:GLN:HB2	1:101:A:VAL:HG11	12	0.33
(1,1227)	1:96:A:GLN:HB3	1:101:A:VAL:HG11	12	0.33
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	12	0.33
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	10	0.33
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	10	0.33
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	17	0.33
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	12	0.33
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	17	0.33
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	17	0.33
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	2	0.33
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	12	0.33
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	12	0.33
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	1	0.33
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	18	0.33
(1,751)	1:77:A:ILE:HB	1:148:A:ALA:HA	12	0.33
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB2	2	0.33
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB3	2	0.33
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	6	0.33
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	6	0.33
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	12	0.33
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	12	0.33
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	12	0.33
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	12	0.33
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	10	0.33
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	11	0.33
(1,166)	1:49:A:VAL:HG21	1:53:A:MET:HA	6	0.33
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	11	0.33
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	11	0.33
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	11	0.33
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	11	0.33
(1,39)	1:43:A:ARG:HA	1:45:A:MET:H	12	0.33
(1,2111)	1:149:A:LYS:HG2	1:149:A:LYS:HE2	12	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2111)	1:149:A:LYS:HG2	1:149:A:LYS:HE3	12	0.32
(1,2111)	1:149:A:LYS:HG3	1:149:A:LYS:HE2	12	0.32
(1,2111)	1:149:A:LYS:HG3	1:149:A:LYS:HE3	12	0.32
(1,1916)	1:136:A:GLU:HB2	1:146:A:VAL:HG21	12	0.32
(1,1916)	1:136:A:GLU:HB3	1:146:A:VAL:HG21	12	0.32
(1,1797)	1:130:A:ASN:HB2	1:133:A:LEU:HB2	12	0.32
(1,1797)	1:130:A:ASN:HB2	1:133:A:LEU:HB3	12	0.32
(1,1797)	1:130:A:ASN:HB3	1:133:A:LEU:HB2	12	0.32
(1,1797)	1:130:A:ASN:HB3	1:133:A:LEU:HB3	12	0.32
(1,1791)	1:130:A:ASN:HA	1:133:A:LEU:HB2	11	0.32
(1,1791)	1:130:A:ASN:HA	1:133:A:LEU:HB3	11	0.32
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	4	0.32
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	4	0.32
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	12	0.32
(1,1446)	1:108:A:THR:HA	1:115:A:LYS:HB2	12	0.32
(1,1446)	1:108:A:THR:HA	1:115:A:LYS:HB3	12	0.32
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	12	0.32
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	16	0.32
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	9	0.32
(1,1320)	1:102:A:ASN:HB2	1:123:A:VAL:H	10	0.32
(1,1320)	1:102:A:ASN:HB3	1:123:A:VAL:H	10	0.32
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	20	0.32
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	16	0.32
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	11	0.32
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	12	0.32
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	11	0.32
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	12	0.32
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	11	0.32
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	14	0.32
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	11	0.32
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	11	0.32
(1,866)	1:79:A:VAL:HG21	1:80:A:GLY:H	3	0.32
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	18	0.32
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	11	0.32
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	11	0.32
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	20	0.32
(1,557)	1:71:A:GLU:HA	1:73:A:ASP:H	12	0.32
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	5	0.32
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	5	0.32
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	16	0.32
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	5	0.32
(1,380)	1:64:A:ALA:HA	1:68:A:GLU:HA	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,379)	1:64:A:ALA:HA	1:68:A:GLU:H	10	0.32
(1,379)	1:64:A:ALA:HA	1:68:A:GLU:H	12	0.32
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	15	0.32
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	15	0.32
(1,319)	1:59:A:SER:HA	1:60:A:SER:HB2	17	0.32
(1,319)	1:59:A:SER:HA	1:60:A:SER:HB3	17	0.32
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	11	0.32
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG2	18	0.32
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG3	18	0.32
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	12	0.32
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	12	0.32
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	12	0.32
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	12	0.32
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	5	0.32
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	10	0.31
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	10	0.31
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	9	0.31
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	9	0.31
(1,1931)	1:137:A:THR:HA	1:143:A:GLN:HA	10	0.31
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	12	0.31
(1,1819)	1:132:A:LEU:HA	1:134:A:LEU:H	11	0.31
(1,1790)	1:130:A:ASN:HA	1:133:A:LEU:HG	11	0.31
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	13	0.31
(1,1675)	1:125:A:ILE:HA	1:128:A:VAL:HG11	10	0.31
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	20	0.31
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	20	0.31
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	3	0.31
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	3	0.31
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	7	0.31
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	8	0.31
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	3	0.31
(1,1298)	1:101:A:VAL:HG21	1:120:A:VAL:HA	4	0.31
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	2	0.31
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	3	0.31
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	3	0.31
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	12	0.31
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	10	0.31
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	10	0.31
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	11	0.31
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	2	0.31
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	2	0.31
(1,913)	1:82:A:VAL:H	1:144:A:LEU:HA	11	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,907)	1:81:A:ASN:HB2	1:145:A:LYS:H	12	0.31
(1,907)	1:81:A:ASN:HB3	1:145:A:LYS:H	12	0.31
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	12	0.31
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	12	0.31
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	12	0.31
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	12	0.31
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	10	0.31
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	2	0.31
(1,807)	1:78:A:TYR:HA	1:79:A:VAL:HG21	11	0.31
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	11	0.31
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	10	0.31
(1,635)	1:73:A:ASP:H	1:75:A:ARG:HB2	11	0.31
(1,635)	1:73:A:ASP:H	1:75:A:ARG:HB3	11	0.31
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	10	0.31
(1,596)	1:72:A:VAL:H	1:75:A:ARG:HB2	12	0.31
(1,596)	1:72:A:VAL:H	1:75:A:ARG:HB3	12	0.31
(1,582)	1:71:A:GLU:HG2	1:75:A:ARG:HB2	10	0.31
(1,582)	1:71:A:GLU:HG2	1:75:A:ARG:HB3	10	0.31
(1,582)	1:71:A:GLU:HG3	1:75:A:ARG:HB2	10	0.31
(1,582)	1:71:A:GLU:HG3	1:75:A:ARG:HB3	10	0.31
(1,575)	1:71:A:GLU:HB2	1:75:A:ARG:HG2	11	0.31
(1,575)	1:71:A:GLU:HB2	1:75:A:ARG:HG3	11	0.31
(1,575)	1:71:A:GLU:HB3	1:75:A:ARG:HG2	11	0.31
(1,575)	1:71:A:GLU:HB3	1:75:A:ARG:HG3	11	0.31
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	16	0.31
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	16	0.31
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	16	0.31
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	16	0.31
(1,490)	1:69:A:LYS:HA	1:72:A:VAL:HA	11	0.31
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	2	0.31
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	2	0.31
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	3	0.31
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	4	0.31
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	7	0.31
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	9	0.31
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	7	0.31
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	7	0.31
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	18	0.31
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	18	0.31
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	16	0.31
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	16	0.31
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	3	0.31
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	13	0.31
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	13	0.31
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	20	0.31
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	20	0.31
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	13	0.31
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	18	0.31
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	16	0.31
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	12	0.31
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	18	0.31
(1,182)	1:50:A:GLU:HB2	1:51:A:LYS:H	10	0.31
(1,182)	1:50:A:GLU:HB3	1:51:A:LYS:H	10	0.31
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	8	0.31
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	17	0.31
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	12	0.31
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	12	0.31
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	11	0.31
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	19	0.3
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	19	0.3
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	10	0.3
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	10	0.3
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	10	0.3
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	10	0.3
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	10	0.3
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	10	0.3
(1,1908)	1:136:A:GLU:HB2	1:144:A:LEU:HA	12	0.3
(1,1908)	1:136:A:GLU:HB3	1:144:A:LEU:HA	12	0.3
(1,1881)	1:135:A:ASN:HB2	1:146:A:VAL:HB	3	0.3
(1,1881)	1:135:A:ASN:HB3	1:146:A:VAL:HB	3	0.3
(1,1834)	1:132:A:LEU:HB2	1:148:A:ALA:H	10	0.3
(1,1834)	1:132:A:LEU:HB3	1:148:A:ALA:H	10	0.3
(1,1627)	1:123:A:VAL:H	1:123:A:VAL:HB	11	0.3
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	12	0.3
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE2	8	0.3
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE3	8	0.3
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE2	14	0.3
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE3	14	0.3
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	7	0.3
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	7	0.3
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	6	0.3
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	13	0.3
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1283)	1:101:A:VAL:HB	1:104:A:VAL:HB	11	0.3
(1,1258)	1:99:A:GLY:HA2	1:127:A:ALA:HB3	10	0.3
(1,1258)	1:99:A:GLY:HA3	1:127:A:ALA:HB3	10	0.3
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	10	0.3
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	13	0.3
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	9	0.3
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	9	0.3
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	10	0.3
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD2	6	0.3
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD3	6	0.3
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	8	0.3
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	11	0.3
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	11	0.3
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	11	0.3
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	11	0.3
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	7	0.3
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	20	0.3
(1,833)	1:79:A:VAL:HA	1:144:A:LEU:HB2	11	0.3
(1,833)	1:79:A:VAL:HA	1:144:A:LEU:HB3	11	0.3
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	2	0.3
(1,751)	1:77:A:ILE:HB	1:148:A:ALA:HA	11	0.3
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	11	0.3
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	11	0.3
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	10	0.3
(1,597)	1:72:A:VAL:H	1:75:A:ARG:HD2	11	0.3
(1,597)	1:72:A:VAL:H	1:75:A:ARG:HD3	11	0.3
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	20	0.3
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	20	0.3
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	3	0.3
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	3	0.3
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	9	0.3
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	12	0.3
(1,458)	1:68:A:GLU:HA	1:70:A:GLU:H	11	0.3
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	8	0.3
(1,376)	1:64:A:ALA:HA	1:66:A:GLN:H	11	0.3
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	1	0.3
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	1	0.3
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	9	0.3
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	9	0.3
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	17	0.3
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	17	0.3
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB2	10	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB3	10	0.3
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	18	0.3
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	18	0.3
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	17	0.3
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	13	0.3
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	19	0.3
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	10	0.3
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD2	10	0.3
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD3	10	0.3
(1,110)	1:47:A:ALA:HA	1:49:A:VAL:HB	12	0.3
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	2	0.29
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	2	0.29
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	12	0.29
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	12	0.29
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	10	0.29
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	5	0.29
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	5	0.29
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	8	0.29
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	8	0.29
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB2	12	0.29
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB3	12	0.29
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	8	0.29
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	12	0.29
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	19	0.29
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	3	0.29
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	3	0.29
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	18	0.29
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	18	0.29
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB2	11	0.29
(1,1454)	1:108:A:THR:HG21	1:109:A:ASP:HB3	11	0.29
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	15	0.29
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	7	0.29
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	18	0.29
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	18	0.29
(1,1206)	1:95:A:PHE:HE2	1:146:A:VAL:HG21	10	0.29
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	11	0.29
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	10	0.29
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	11	0.29
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	11	0.29
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	4	0.29
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	4	0.29
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	9	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	9	0.29
(1,974)	1:84:A:TYR:HA	1:114:A:PRO:HA	10	0.29
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	10	0.29
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	10	0.29
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	20	0.29
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	20	0.29
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB2	12	0.29
(1,944)	1:82:A:VAL:HG21	1:86:A:CYS:HB3	12	0.29
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	6	0.29
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	19	0.29
(1,852)	1:79:A:VAL:HG11	1:144:A:LEU:HD11	10	0.29
(1,766)	1:77:A:ILE:HG21	1:128:A:VAL:HA	10	0.29
(1,716)	1:76:A:SER:HA	1:122:A:PHE:H	10	0.29
(1,645)	1:73:A:ASP:HB2	1:149:A:LYS:HE2	10	0.29
(1,645)	1:73:A:ASP:HB2	1:149:A:LYS:HE3	10	0.29
(1,645)	1:73:A:ASP:HB3	1:149:A:LYS:HE2	10	0.29
(1,645)	1:73:A:ASP:HB3	1:149:A:LYS:HE3	10	0.29
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	16	0.29
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	16	0.29
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	9	0.29
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	9	0.29
(1,405)	1:65:A:THR:HA	1:69:A:LYS:HB2	11	0.29
(1,405)	1:65:A:THR:HA	1:69:A:LYS:HB3	11	0.29
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	6	0.29
(1,391)	1:65:A:THR:H	1:65:A:THR:HG21	13	0.29
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	5	0.29
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	16	0.29
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	16	0.29
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	16	0.29
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	18	0.29
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	18	0.29
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	19	0.29
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	19	0.29
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	10	0.29
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	14	0.29
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	14	0.29
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	6	0.29
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	6	0.29
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	16	0.29
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	16	0.29
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	17	0.29
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	17	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG2	12	0.29
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG3	12	0.29
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	6	0.29
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	6	0.29
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	2	0.29
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	2	0.29
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	18	0.29
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	18	0.29
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	2	0.29
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	8	0.29
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	8	0.29
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	20	0.29
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	15	0.29
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	19	0.29
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	4	0.29
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	4	0.29
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	9	0.29
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	9	0.29
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	5	0.29
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	5	0.29
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	5	0.29
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	5	0.29
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD2	17	0.29
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD3	17	0.29
(1,39)	1:43:A:ARG:HA	1:45:A:MET:H	18	0.29
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	5	0.29
(1,1)	1:41:A:ALA:H	1:41:A:ALA:HB3	9	0.29
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	20	0.28
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	20	0.28
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB2	20	0.28
(1,2086)	1:148:A:ALA:HB3	1:150:A:ARG:HB3	20	0.28
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	12	0.28
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	12	0.28
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	12	0.28
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	15	0.28
(1,1931)	1:137:A:THR:HA	1:143:A:GLN:HA	12	0.28
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	11	0.28
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	11	0.28
(1,1881)	1:135:A:ASN:HB2	1:146:A:VAL:HB	2	0.28
(1,1881)	1:135:A:ASN:HB3	1:146:A:VAL:HB	2	0.28
(1,1791)	1:130:A:ASN:HA	1:133:A:LEU:HB2	12	0.28
(1,1791)	1:130:A:ASN:HA	1:133:A:LEU:HB3	12	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	17	0.28
(1,1652)	1:124:A:GLU:HA	1:125:A:ILE:HG12	10	0.28
(1,1652)	1:124:A:GLU:HA	1:125:A:ILE:HG13	10	0.28
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	18	0.28
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	18	0.28
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	20	0.28
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	20	0.28
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	4	0.28
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	4	0.28
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	9	0.28
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	9	0.28
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	14	0.28
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	14	0.28
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	11	0.28
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	6	0.28
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	6	0.28
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	14	0.28
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	17	0.28
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	4	0.28
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	12	0.28
(1,1266)	1:99:A:GLY:HA2	1:131:A:ALA:HB3	19	0.28
(1,1266)	1:99:A:GLY:HA3	1:131:A:ALA:HB3	19	0.28
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	8	0.28
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	8	0.28
(1,1184)	1:94:A:HIS:HA	1:96:A:GLN:H	12	0.28
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	9	0.28
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	9	0.28
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	12	0.28
(1,1029)	1:87:A:THR:H	1:91:A:VAL:HG21	11	0.28
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	8	0.28
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	8	0.28
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	4	0.28
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	4	0.28
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	2	0.28
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	2	0.28
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	10	0.28
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	10	0.28
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	10	0.28
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	10	0.28
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	11	0.28
(1,875)	1:80:A:GLY:H	1:82:A:VAL:HG21	12	0.28
(1,816)	1:78:A:TYR:HB2	1:149:A:LYS:HA	10	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,816)	1:78:A:TYR:HB3	1:149:A:LYS:HA	10	0.28
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	14	0.28
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	12	0.28
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	2	0.28
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	2	0.28
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG2	4	0.28
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG3	4	0.28
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG2	4	0.28
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG3	4	0.28
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	11	0.28
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	11	0.28
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	11	0.28
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	11	0.28
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	17	0.28
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	17	0.28
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	5	0.28
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	5	0.28
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	9	0.28
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	9	0.28
(1,430)	1:66:A:GLN:HA	1:70:A:GLU:H	12	0.28
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	17	0.28
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	17	0.28
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	8	0.28
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	8	0.28
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	20	0.28
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	7	0.28
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	7	0.28
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	8	0.28
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	8	0.28
(1,282)	1:56:A:VAL:HB	1:61:A:SER:HA	11	0.28
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	1	0.28
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	1	0.28
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	4	0.28
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	4	0.28
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	14	0.28
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	14	0.28
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	5	0.28
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	5	0.28
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	19	0.28
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	19	0.28
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	17	0.28
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	3	0.28
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG2	7	0.28
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG3	7	0.28
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	7	0.28
(1,112)	1:47:A:ALA:HA	1:50:A:GLU:H	18	0.28
(1,56)	1:45:A:MET:H	1:46:A:GLN:HA	7	0.28
(1,3)	1:41:A:ALA:H	1:43:A:ARG:HB2	11	0.28
(1,3)	1:41:A:ALA:H	1:43:A:ARG:HB3	11	0.28
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	1	0.27
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	1	0.27
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB2	15	0.27
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB3	15	0.27
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB2	15	0.27
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB3	15	0.27
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	8	0.27
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	8	0.27
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	8	0.27
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	8	0.27
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	8	0.27
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	8	0.27
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	1	0.27
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	1	0.27
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	7	0.27
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	7	0.27
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD2	18	0.27
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD3	18	0.27
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD2	18	0.27
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD3	18	0.27
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	10	0.27
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	1	0.27
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	4	0.27
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	20	0.27
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	15	0.27
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	15	0.27
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	15	0.27
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	15	0.27
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	17	0.27
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	17	0.27
(1,1775)	1:129:A:GLN:HG2	1:133:A:LEU:HD11	11	0.27
(1,1775)	1:129:A:GLN:HG3	1:133:A:LEU:HD11	11	0.27
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG2	4	0.27
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG3	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	1	0.27
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	6	0.27
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	10	0.27
(1,1566)	1:115:A:LYS:HB2	1:116:A:GLY:H	12	0.27
(1,1566)	1:115:A:LYS:HB3	1:116:A:GLY:H	12	0.27
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	15	0.27
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	15	0.27
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	10	0.27
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	1	0.27
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	1	0.27
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	5	0.27
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	5	0.27
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	8	0.27
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	8	0.27
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	8	0.27
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	8	0.27
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	18	0.27
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	18	0.27
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	5	0.27
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	5	0.27
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE2	6	0.27
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE3	6	0.27
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	11	0.27
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	19	0.27
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	5	0.27
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD2	4	0.27
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD3	4	0.27
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD2	4	0.27
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD3	4	0.27
(1,1312)	1:102:A:ASN:HB3	1:122:A:PHE:HA	10	0.27
(1,1310)	1:102:A:ASN:HB2	1:122:A:PHE:HA	11	0.27
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	12	0.27
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	7	0.27
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	7	0.27
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	12	0.27
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	12	0.27
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	1	0.27
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	1	0.27
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	2	0.27
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	2	0.27
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	18	0.27
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	18	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	17	0.27
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	17	0.27
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	18	0.27
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	18	0.27
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	10	0.27
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	10	0.27
(1,959)	1:83:A:ASP:HB2	1:140:A:HIS:HA	2	0.27
(1,959)	1:83:A:ASP:HB3	1:140:A:HIS:HA	2	0.27
(1,938)	1:82:A:VAL:HG21	1:117:A:PHE:HA	12	0.27
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	4	0.27
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	17	0.27
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	8	0.27
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	8	0.27
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	15	0.27
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	12	0.27
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	12	0.27
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	10	0.27
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	10	0.27
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	10	0.27
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	10	0.27
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	17	0.27
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	17	0.27
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	17	0.27
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	17	0.27
(1,816)	1:78:A:TYR:HB2	1:149:A:LYS:HA	18	0.27
(1,816)	1:78:A:TYR:HB3	1:149:A:LYS:HA	18	0.27
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	12	0.27
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	12	0.27
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	12	0.27
(1,686)	1:75:A:ARG:HB2	1:121:A:GLU:HA	12	0.27
(1,686)	1:75:A:ARG:HB3	1:121:A:GLU:HA	12	0.27
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	1	0.27
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	1	0.27
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	17	0.27
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	17	0.27
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	8	0.27
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	13	0.27
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	13	0.27
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	19	0.27
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	19	0.27
(1,485)	1:69:A:LYS:HA	1:69:A:LYS:HG2	10	0.27
(1,485)	1:69:A:LYS:HA	1:69:A:LYS:HG3	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	18	0.27
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	18	0.27
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	10	0.27
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	10	0.27
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	16	0.27
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	16	0.27
(1,365)	1:63:A:SER:HA	1:66:A:GLN:HB2	6	0.27
(1,365)	1:63:A:SER:HA	1:66:A:GLN:HB3	6	0.27
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	5	0.27
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	5	0.27
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	5	0.27
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	5	0.27
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	9	0.27
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	9	0.27
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	7	0.27
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	7	0.27
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	20	0.27
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	20	0.27
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	2	0.27
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	2	0.27
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	15	0.27
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	15	0.27
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	18	0.27
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	18	0.27
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	7	0.27
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	7	0.27
(1,232)	1:54:A:GLY:H	1:56:A:VAL:H	11	0.27
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	17	0.27
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	20	0.27
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	15	0.27
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	17	0.27
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	17	0.27
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	17	0.27
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	17	0.27
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	17	0.27
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	2	0.27
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	2	0.27
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD2	10	0.27
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD3	10	0.27
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	10	0.27
(1,1)	1:41:A:ALA:H	1:41:A:ALA:HB3	7	0.27
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	18	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	18	0.26
(1,2125)	1:150:A:ARG:HA	1:151:A:THR:HB	7	0.26
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	5	0.26
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	5	0.26
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	18	0.26
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	18	0.26
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	13	0.26
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	13	0.26
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	18	0.26
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	18	0.26
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	19	0.26
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	19	0.26
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	10	0.26
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	15	0.26
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	15	0.26
(1,1820)	1:132:A:LEU:HA	1:146:A:VAL:HG11	4	0.26
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	9	0.26
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	11	0.26
(1,1729)	1:128:A:VAL:H	1:131:A:ALA:H	11	0.26
(1,1729)	1:128:A:VAL:H	1:131:A:ALA:H	12	0.26
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	14	0.26
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	14	0.26
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	14	0.26
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	14	0.26
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	10	0.26
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	12	0.26
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	9	0.26
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	9	0.26
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	14	0.26
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	14	0.26
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	6	0.26
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	6	0.26
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	11	0.26
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	11	0.26
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	20	0.26
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	20	0.26
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	4	0.26
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	4	0.26
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	7	0.26
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	9	0.26
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	9	0.26
(1,1429)	1:107:A:LEU:HA	1:108:A:THR:HB	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	11	0.26
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	15	0.26
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	5	0.26
(1,1352)	1:104:A:VAL:HA	1:121:A:GLU:H	11	0.26
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	6	0.26
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	6	0.26
(1,1266)	1:99:A:GLY:HA2	1:131:A:ALA:HB3	18	0.26
(1,1266)	1:99:A:GLY:HA3	1:131:A:ALA:HB3	18	0.26
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	9	0.26
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	9	0.26
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	13	0.26
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	13	0.26
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	2	0.26
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	3	0.26
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	12	0.26
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	8	0.26
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	8	0.26
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	18	0.26
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	18	0.26
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	10	0.26
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	14	0.26
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	14	0.26
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	12	0.26
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	4	0.26
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	9	0.26
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	12	0.26
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	20	0.26
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	12	0.26
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	4	0.26
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	4	0.26
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	6	0.26
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	6	0.26
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	12	0.26
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	12	0.26
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	2	0.26
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	2	0.26
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	18	0.26
(1,959)	1:83:A:ASP:HB2	1:140:A:HIS:HA	15	0.26
(1,959)	1:83:A:ASP:HB3	1:140:A:HIS:HA	15	0.26
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	15	0.26
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	15	0.26
(1,935)	1:82:A:VAL:HB	1:91:A:VAL:HG21	9	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	3	0.26
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	10	0.26
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	10	0.26
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	12	0.26
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	12	0.26
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	15	0.26
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	15	0.26
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	17	0.26
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	17	0.26
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	16	0.26
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	11	0.26
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	1	0.26
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	18	0.26
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	1	0.26
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	1	0.26
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	1	0.26
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	1	0.26
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	14	0.26
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	14	0.26
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	14	0.26
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	14	0.26
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	18	0.26
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	18	0.26
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	18	0.26
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	18	0.26
(1,775)	1:77:A:ILE:HG21	1:77:A:ILE:HD11	10	0.26
(1,750)	1:77:A:ILE:HB	1:147:A:SER:HA	11	0.26
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	20	0.26
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	13	0.26
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	13	0.26
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	3	0.26
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	3	0.26
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	2	0.26
(1,673)	1:75:A:ARG:HA	1:122:A:PHE:H	10	0.26
(1,673)	1:75:A:ARG:HA	1:122:A:PHE:H	12	0.26
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	19	0.26
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	19	0.26
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	11	0.26
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	11	0.26
(1,564)	1:71:A:GLU:HG2	1:72:A:VAL:H	10	0.26
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	6	0.26
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	6	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	17	0.26
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	17	0.26
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB2	1	0.26
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB3	1	0.26
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB2	9	0.26
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB3	9	0.26
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	14	0.26
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	14	0.26
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	3	0.26
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	3	0.26
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	1	0.26
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	1	0.26
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	15	0.26
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	15	0.26
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	9	0.26
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	2	0.26
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	10	0.26
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	10	0.26
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	8	0.26
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	2	0.26
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	2	0.26
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	3	0.26
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	3	0.26
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	4	0.26
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	4	0.26
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	16	0.26
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	16	0.26
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	15	0.26
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	15	0.26
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	1	0.26
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	1	0.26
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	15	0.26
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	15	0.26
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	17	0.26
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	17	0.26
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	15	0.26
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	15	0.26
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	18	0.26
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	18	0.26
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	7	0.26
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	3	0.26
(1,232)	1:54:A:GLY:H	1:56:A:VAL:H	12	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:53:A:MET:HB2	1:56:A:VAL:HG11	9	0.26
(1,229)	1:53:A:MET:HB3	1:56:A:VAL:HG11	9	0.26
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	11	0.26
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	3	0.26
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	9	0.26
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	5	0.26
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	5	0.26
(1,141)	1:48:A:LYS:HG2	1:52:A:GLU:HG2	19	0.26
(1,141)	1:48:A:LYS:HG2	1:52:A:GLU:HG3	19	0.26
(1,141)	1:48:A:LYS:HG3	1:52:A:GLU:HG2	19	0.26
(1,141)	1:48:A:LYS:HG3	1:52:A:GLU:HG3	19	0.26
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	7	0.26
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	7	0.26
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	7	0.26
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	7	0.26
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	10	0.26
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	10	0.26
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	10	0.26
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	10	0.26
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	8	0.26
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	8	0.26
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	8	0.26
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	8	0.26
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	9	0.26
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	9	0.26
(1,51)	1:43:A:ARG:HG2	1:45:A:MET:HA	8	0.26
(1,51)	1:43:A:ARG:HG3	1:45:A:MET:HA	8	0.26
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	18	0.26
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	18	0.26
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	18	0.26
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	18	0.26
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	19	0.26
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	19	0.26
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	19	0.26
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	19	0.26
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB2	10	0.26
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB3	10	0.26
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	4	0.25
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	4	0.25
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB2	9	0.25
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB3	9	0.25
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB2	9	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB3	9	0.25
(1,2100)	1:149:A:LYS:HA	1:150:A:ARG:H	10	0.25
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	10	0.25
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	10	0.25
(1,2062)	1:145:A:LYS:HG2	1:146:A:VAL:HB	17	0.25
(1,2062)	1:145:A:LYS:HG3	1:146:A:VAL:HB	17	0.25
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	4	0.25
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	4	0.25
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	4	0.25
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	4	0.25
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	16	0.25
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	16	0.25
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB2	18	0.25
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB3	18	0.25
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB2	18	0.25
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB3	18	0.25
(1,1978)	1:139:A:LEU:HG	1:144:A:LEU:HG	10	0.25
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	3	0.25
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	3	0.25
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	20	0.25
(1,1926)	1:137:A:THR:H	1:144:A:LEU:H	12	0.25
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	5	0.25
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	12	0.25
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	12	0.25
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	13	0.25
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	15	0.25
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB2	11	0.25
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB3	11	0.25
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	2	0.25
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	4	0.25
(1,1849)	1:133:A:LEU:HG	1:134:A:LEU:H	12	0.25
(1,1847)	1:133:A:LEU:HD11	1:134:A:LEU:H	10	0.25
(1,1847)	1:133:A:LEU:HD11	1:134:A:LEU:H	11	0.25
(1,1819)	1:132:A:LEU:HA	1:134:A:LEU:H	3	0.25
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	5	0.25
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	6	0.25
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	16	0.25
(1,1676)	1:125:A:ILE:HA	1:129:A:GLN:H	11	0.25
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	1	0.25
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	1	0.25
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	1	0.25
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	16	0.25
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	16	0.25
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	16	0.25
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	16	0.25
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	6	0.25
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	6	0.25
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	7	0.25
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	7	0.25
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	8	0.25
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	8	0.25
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	14	0.25
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	14	0.25
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	3	0.25
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	3	0.25
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	9	0.25
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	9	0.25
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	10	0.25
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	10	0.25
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	17	0.25
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	17	0.25
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	11	0.25
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	17	0.25
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	17	0.25
(1,1437)	1:108:A:THR:H	1:108:A:THR:HB	10	0.25
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	1	0.25
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	3	0.25
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	4	0.25
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	6	0.25
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	7	0.25
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	8	0.25
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	9	0.25
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	13	0.25
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	15	0.25
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	17	0.25
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	6	0.25
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	9	0.25
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	14	0.25
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD2	14	0.25
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD3	14	0.25
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD2	14	0.25
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD3	14	0.25
(1,1272)	1:101:A:VAL:H	1:101:A:VAL:HG11	12	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1272)	1:101:A:VAL:H	1:101:A:VAL:HG21	12	0.25
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	1	0.25
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	1	0.25
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	9	0.25
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	8	0.25
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	15	0.25
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	14	0.25
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	14	0.25
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	5	0.25
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	1	0.25
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	7	0.25
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	5	0.25
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	10	0.25
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	16	0.25
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	17	0.25
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	7	0.25
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	11	0.25
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	20	0.25
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	11	0.25
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	11	0.25
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	5	0.25
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	5	0.25
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	1	0.25
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	1	0.25
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	3	0.25
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	3	0.25
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	16	0.25
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	16	0.25
(1,959)	1:83:A:ASP:HB2	1:140:A:HIS:HA	20	0.25
(1,959)	1:83:A:ASP:HB3	1:140:A:HIS:HA	20	0.25
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	15	0.25
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	15	0.25
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	20	0.25
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	20	0.25
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	2	0.25
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	16	0.25
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	2	0.25
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	2	0.25
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	4	0.25
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	4	0.25
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	18	0.25
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	18	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	12	0.25
(1,889)	1:80:A:GLY:HA2	1:82:A:VAL:HG21	12	0.25
(1,889)	1:80:A:GLY:HA3	1:82:A:VAL:HG21	12	0.25
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	17	0.25
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	17	0.25
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	17	0.25
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	17	0.25
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	17	0.25
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	10	0.25
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	15	0.25
(1,797)	1:78:A:TYR:HA	1:119:A:TYR:HA	6	0.25
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	14	0.25
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	19	0.25
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	11	0.25
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	1	0.25
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	1	0.25
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	4	0.25
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	12	0.25
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	18	0.25
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	18	0.25
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	5	0.25
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	5	0.25
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	19	0.25
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	19	0.25
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	9	0.25
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	1	0.25
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	1	0.25
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	3	0.25
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	3	0.25
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	4	0.25
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	4	0.25
(1,649)	1:73:A:ASP:HB2	1:74:A:SER:HB2	12	0.25
(1,649)	1:73:A:ASP:HB2	1:74:A:SER:HB3	12	0.25
(1,649)	1:73:A:ASP:HB3	1:74:A:SER:HB2	12	0.25
(1,649)	1:73:A:ASP:HB3	1:74:A:SER:HB3	12	0.25
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB2	2	0.25
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB3	2	0.25
(1,583)	1:71:A:GLU:HG2	1:75:A:ARG:HD2	10	0.25
(1,583)	1:71:A:GLU:HG2	1:75:A:ARG:HD3	10	0.25
(1,583)	1:71:A:GLU:HG3	1:75:A:ARG:HD2	10	0.25
(1,583)	1:71:A:GLU:HG3	1:75:A:ARG:HD3	10	0.25
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	17	0.25
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	8	0.25
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	8	0.25
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	2	0.25
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	2	0.25
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	11	0.25
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	11	0.25
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	17	0.25
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	17	0.25
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	5	0.25
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	3	0.25
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	1	0.25
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	1	0.25
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	4	0.25
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	4	0.25
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	15	0.25
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	15	0.25
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	18	0.25
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	18	0.25
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	6	0.25
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	9	0.25
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	18	0.25
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	10	0.25
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	15	0.25
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	7	0.25
(1,329)	1:60:A:SER:HA	1:62:A:THR:HB	10	0.25
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB2	12	0.25
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB3	12	0.25
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	10	0.25
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	2	0.25
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	2	0.25
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	6	0.25
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	6	0.25
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	19	0.25
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	3	0.25
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	3	0.25
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	8	0.25
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	8	0.25
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	10	0.25
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	12	0.25
(1,229)	1:53:A:MET:HB2	1:56:A:VAL:HG11	19	0.25
(1,229)	1:53:A:MET:HB3	1:56:A:VAL:HG11	19	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	12	0.25
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	1	0.25
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	1	0.25
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	17	0.25
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	17	0.25
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	17	0.25
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	17	0.25
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	17	0.25
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	17	0.25
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	16	0.25
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	16	0.25
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB2	3	0.25
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB3	3	0.25
(1,140)	1:48:A:LYS:HG2	1:52:A:GLU:H	11	0.25
(1,140)	1:48:A:LYS:HG3	1:52:A:GLU:H	11	0.25
(1,134)	1:48:A:LYS:HD2	1:51:A:LYS:HB2	8	0.25
(1,134)	1:48:A:LYS:HD2	1:51:A:LYS:HB3	8	0.25
(1,134)	1:48:A:LYS:HD3	1:51:A:LYS:HB2	8	0.25
(1,134)	1:48:A:LYS:HD3	1:51:A:LYS:HB3	8	0.25
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	20	0.25
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	16	0.25
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	1	0.25
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	1	0.25
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	1	0.25
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	1	0.25
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	11	0.25
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	11	0.25
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	2	0.25
(1,56)	1:45:A:MET:H	1:46:A:GLN:HA	17	0.25
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	20	0.25
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	20	0.25
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	20	0.25
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	20	0.25
(1,4)	1:41:A:ALA:H	1:45:A:MET:HG2	18	0.25
(1,4)	1:41:A:ALA:H	1:45:A:MET:HG3	18	0.25
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	9	0.24
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	9	0.24
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	15	0.24
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	15	0.24
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	2	0.24
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	2	0.24
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	12	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	12	0.24
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	3	0.24
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	3	0.24
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	3	0.24
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	3	0.24
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	6	0.24
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	6	0.24
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	6	0.24
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	6	0.24
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	8	0.24
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	8	0.24
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	18	0.24
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	18	0.24
(1,1994)	1:140:A:HIS:HB2	1:142:A:ARG:HD2	1	0.24
(1,1994)	1:140:A:HIS:HB2	1:142:A:ARG:HD3	1	0.24
(1,1994)	1:140:A:HIS:HB3	1:142:A:ARG:HD2	1	0.24
(1,1994)	1:140:A:HIS:HB3	1:142:A:ARG:HD3	1	0.24
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	19	0.24
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	19	0.24
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	10	0.24
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	18	0.24
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	7	0.24
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG2	6	0.24
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG3	6	0.24
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG2	6	0.24
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG3	6	0.24
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	2	0.24
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	2	0.24
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	2	0.24
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	2	0.24
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	13	0.24
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	13	0.24
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	13	0.24
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	13	0.24
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	8	0.24
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	8	0.24
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	1	0.24
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	8	0.24
(1,1881)	1:135:A:ASN:HB2	1:146:A:VAL:HB	18	0.24
(1,1881)	1:135:A:ASN:HB3	1:146:A:VAL:HB	18	0.24
(1,1881)	1:135:A:ASN:HB2	1:146:A:VAL:HB	19	0.24
(1,1881)	1:135:A:ASN:HB3	1:146:A:VAL:HB	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	3	0.24
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	3	0.24
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	16	0.24
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	16	0.24
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	17	0.24
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	17	0.24
(1,1879)	1:135:A:ASN:HB2	1:136:A:GLU:HG2	9	0.24
(1,1879)	1:135:A:ASN:HB2	1:136:A:GLU:HG3	9	0.24
(1,1879)	1:135:A:ASN:HB3	1:136:A:GLU:HG2	9	0.24
(1,1879)	1:135:A:ASN:HB3	1:136:A:GLU:HG3	9	0.24
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	3	0.24
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	6	0.24
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	18	0.24
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	19	0.24
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	10	0.24
(1,1775)	1:129:A:GLN:HG2	1:133:A:LEU:HD11	10	0.24
(1,1775)	1:129:A:GLN:HG3	1:133:A:LEU:HD11	10	0.24
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	10	0.24
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	15	0.24
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	11	0.24
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	11	0.24
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	7	0.24
(1,1667)	1:125:A:ILE:H	1:125:A:ILE:HG21	12	0.24
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	15	0.24
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	15	0.24
(1,1657)	1:124:A:GLU:HB2	1:126:A:ASP:H	11	0.24
(1,1657)	1:124:A:GLU:HB3	1:126:A:ASP:H	11	0.24
(1,1653)	1:124:A:GLU:HA	1:126:A:ASP:H	10	0.24
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG2	9	0.24
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG3	9	0.24
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	4	0.24
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	4	0.24
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	8	0.24
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	8	0.24
(1,1521)	1:111:A:PHE:HB2	1:113:A:GLN:HG2	11	0.24
(1,1521)	1:111:A:PHE:HB2	1:113:A:GLN:HG3	11	0.24
(1,1521)	1:111:A:PHE:HB3	1:113:A:GLN:HG2	11	0.24
(1,1521)	1:111:A:PHE:HB3	1:113:A:GLN:HG3	11	0.24
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	15	0.24
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	4	0.24
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	16	0.24
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	16	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	19	0.24
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	19	0.24
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	2	0.24
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	2	0.24
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	6	0.24
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	6	0.24
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	10	0.24
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	15	0.24
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	15	0.24
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	17	0.24
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	17	0.24
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	19	0.24
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	19	0.24
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	19	0.24
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	15	0.24
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	15	0.24
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	19	0.24
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	2	0.24
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	20	0.24
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	19	0.24
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	1	0.24
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	5	0.24
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	17	0.24
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	2	0.24
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	8	0.24
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	17	0.24
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	18	0.24
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	14	0.24
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	14	0.24
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	12	0.24
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD2	3	0.24
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD3	3	0.24
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD2	3	0.24
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD3	3	0.24
(1,1313)	1:102:A:ASN:HB3	1:123:A:VAL:HG21	10	0.24
(1,1306)	1:102:A:ASN:H	1:121:A:GLU:HA	10	0.24
(1,1295)	1:101:A:VAL:HG21	1:104:A:VAL:H	11	0.24
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	19	0.24
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	10	0.24
(1,1265)	1:99:A:GLY:HA2	1:131:A:ALA:HA	2	0.24
(1,1265)	1:99:A:GLY:HA3	1:131:A:ALA:HA	2	0.24
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	19	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	19	0.24
(1,1246)	1:98:A:CYS:HB2	1:130:A:ASN:HB2	11	0.24
(1,1246)	1:98:A:CYS:HB2	1:130:A:ASN:HB3	11	0.24
(1,1246)	1:98:A:CYS:HB3	1:130:A:ASN:HB2	11	0.24
(1,1246)	1:98:A:CYS:HB3	1:130:A:ASN:HB3	11	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	2	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	2	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	4	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	4	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	7	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	7	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	20	0.24
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	20	0.24
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	13	0.24
(1,1170)	1:93:A:GLN:HA	1:96:A:GLN:HA	10	0.24
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	5	0.24
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	5	0.24
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	2	0.24
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	2	0.24
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	6	0.24
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	6	0.24
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	5	0.24
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	5	0.24
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	19	0.24
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	19	0.24
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	3	0.24
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	8	0.24
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	10	0.24
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	6	0.24
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	6	0.24
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	11	0.24
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	2	0.24
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	7	0.24
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	9	0.24
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	18	0.24
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	3	0.24
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	5	0.24
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	1	0.24
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	2	0.24
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	5	0.24
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	6	0.24
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	7	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	9	0.24
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	19	0.24
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	12	0.24
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	18	0.24
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	18	0.24
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	10	0.24
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	10	0.24
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	17	0.24
(1,961)	1:83:A:ASP:HB2	1:142:A:ARG:HB2	15	0.24
(1,961)	1:83:A:ASP:HB2	1:142:A:ARG:HB3	15	0.24
(1,961)	1:83:A:ASP:HB3	1:142:A:ARG:HB2	15	0.24
(1,961)	1:83:A:ASP:HB3	1:142:A:ARG:HB3	15	0.24
(1,961)	1:83:A:ASP:HB2	1:142:A:ARG:HB2	20	0.24
(1,961)	1:83:A:ASP:HB2	1:142:A:ARG:HB3	20	0.24
(1,961)	1:83:A:ASP:HB3	1:142:A:ARG:HB2	20	0.24
(1,961)	1:83:A:ASP:HB3	1:142:A:ARG:HB3	20	0.24
(1,946)	1:83:A:ASP:H	1:140:A:HIS:HB2	12	0.24
(1,946)	1:83:A:ASP:H	1:140:A:HIS:HB3	12	0.24
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	5	0.24
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	5	0.24
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	17	0.24
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	17	0.24
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	8	0.24
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	13	0.24
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	20	0.24
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	10	0.24
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG2	16	0.24
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG3	16	0.24
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG2	16	0.24
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG3	16	0.24
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	17	0.24
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	2	0.24
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	10	0.24
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	18	0.24
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	16	0.24
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	15	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	4	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	4	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	4	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	4	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	13	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	13	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	13	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	15	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	15	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	15	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	15	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	16	0.24
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	16	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	16	0.24
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	16	0.24
(1,812)	1:78:A:TYR:HB2	1:119:A:TYR:HB2	7	0.24
(1,812)	1:78:A:TYR:HB2	1:119:A:TYR:HB3	7	0.24
(1,812)	1:78:A:TYR:HB3	1:119:A:TYR:HB2	7	0.24
(1,812)	1:78:A:TYR:HB3	1:119:A:TYR:HB3	7	0.24
(1,807)	1:78:A:TYR:HA	1:79:A:VAL:HG21	10	0.24
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB2	18	0.24
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB3	18	0.24
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	6	0.24
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	12	0.24
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	2	0.24
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	3	0.24
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	14	0.24
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	15	0.24
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	15	0.24
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	15	0.24
(1,690)	1:75:A:ARG:HB2	1:123:A:VAL:H	10	0.24
(1,690)	1:75:A:ARG:HB3	1:123:A:VAL:H	10	0.24
(1,686)	1:75:A:ARG:HB2	1:121:A:GLU:HA	11	0.24
(1,686)	1:75:A:ARG:HB3	1:121:A:GLU:HA	11	0.24
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	4	0.24
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	4	0.24
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	16	0.24
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	19	0.24
(1,659)	1:74:A:SER:HA	1:151:A:THR:HB	1	0.24
(1,659)	1:74:A:SER:HA	1:151:A:THR:HB	3	0.24
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	1	0.24
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	1	0.24
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	2	0.24
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	2	0.24
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB2	10	0.24
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB3	10	0.24
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB2	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,627)	1:72:A:VAL:HG11	1:75:A:ARG:HB3	10	0.24
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	2	0.24
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	7	0.24
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB2	1	0.24
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB3	1	0.24
(1,578)	1:71:A:GLU:HG2	1:72:A:VAL:H	11	0.24
(1,578)	1:71:A:GLU:HG3	1:72:A:VAL:H	11	0.24
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	10	0.24
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	10	0.24
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	10	0.24
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	10	0.24
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	1	0.24
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	1	0.24
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	2	0.24
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	2	0.24
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	3	0.24
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	3	0.24
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	9	0.24
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	9	0.24
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	14	0.24
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	14	0.24
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB2	15	0.24
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB3	15	0.24
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	9	0.24
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	9	0.24
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	15	0.24
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	15	0.24
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	19	0.24
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	19	0.24
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	15	0.24
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	15	0.24
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	7	0.24
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	7	0.24
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	19	0.24
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	19	0.24
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	8	0.24
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	3	0.24
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	11	0.24
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG2	6	0.24
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG3	6	0.24
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG2	3	0.24
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG3	3	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	20	0.24
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	20	0.24
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	5	0.24
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	14	0.24
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	14	0.24
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	4	0.24
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	5	0.24
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	20	0.24
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	3	0.24
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	11	0.24
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	14	0.24
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	3	0.24
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	3	0.24
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	13	0.24
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	13	0.24
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	17	0.24
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	17	0.24
(1,286)	1:56:A:VAL:HG21	1:57:A:GLN:H	12	0.24
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	14	0.24
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	17	0.24
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	9	0.24
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	9	0.24
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	12	0.24
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	12	0.24
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	20	0.24
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	20	0.24
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	7	0.24
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	7	0.24
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	9	0.24
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	9	0.24
(1,261)	1:56:A:VAL:H	1:60:A:SER:H	12	0.24
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	4	0.24
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	4	0.24
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	6	0.24
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	6	0.24
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	16	0.24
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	16	0.24
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	12	0.24
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	12	0.24
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	15	0.24
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	15	0.24
(1,229)	1:53:A:MET:HB2	1:56:A:VAL:HG11	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:53:A:MET:HB3	1:56:A:VAL:HG11	4	0.24
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	13	0.24
(1,141)	1:48:A:LYS:HG2	1:52:A:GLU:HG2	2	0.24
(1,141)	1:48:A:LYS:HG2	1:52:A:GLU:HG3	2	0.24
(1,141)	1:48:A:LYS:HG3	1:52:A:GLU:HG2	2	0.24
(1,141)	1:48:A:LYS:HG3	1:52:A:GLU:HG3	2	0.24
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	13	0.24
(1,112)	1:47:A:ALA:HA	1:50:A:GLU:H	7	0.24
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	4	0.24
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	20	0.24
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	19	0.24
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	19	0.24
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	8	0.24
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	8	0.24
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	8	0.24
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	8	0.24
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	7	0.24
(1,63)	1:45:A:MET:HA	1:46:A:GLN:HG2	10	0.24
(1,63)	1:45:A:MET:HA	1:46:A:GLN:HG3	10	0.24
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	2	0.24
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	19	0.24
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	19	0.24
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	19	0.24
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	19	0.24
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	13	0.24
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	13	0.24
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	13	0.24
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	13	0.24
(1,39)	1:43:A:ARG:HA	1:45:A:MET:H	11	0.24
(1,38)	1:43:A:ARG:HA	1:43:A:ARG:HG2	3	0.24
(1,38)	1:43:A:ARG:HA	1:43:A:ARG:HG3	3	0.24
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	2	0.24
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	1	0.24
(1,1)	1:41:A:ALA:H	1:41:A:ALA:HB3	8	0.24
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	5	0.23
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	5	0.23
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	8	0.23
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	8	0.23
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	15	0.23
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	15	0.23
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	9	0.23
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	9	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	6	0.23
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	6	0.23
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	2	0.23
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB2	9	0.23
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB3	9	0.23
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB2	9	0.23
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB3	9	0.23
(1,2047)	1:144:A:LEU:HB2	1:146:A:VAL:HG21	10	0.23
(1,2047)	1:144:A:LEU:HB3	1:146:A:VAL:HG21	10	0.23
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	1	0.23
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	1	0.23
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	2	0.23
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	2	0.23
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	3	0.23
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	3	0.23
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	7	0.23
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	7	0.23
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	14	0.23
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	9	0.23
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	9	0.23
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	13	0.23
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	13	0.23
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	17	0.23
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	17	0.23
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	2	0.23
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	16	0.23
(1,1950)	1:138:A:GLU:HA	1:143:A:GLN:H	2	0.23
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	14	0.23
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	2	0.23
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	2	0.23
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	3	0.23
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	3	0.23
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	9	0.23
(1,1894)	1:136:A:GLU:HA	1:138:A:GLU:H	10	0.23
(1,1881)	1:135:A:ASN:HB2	1:146:A:VAL:HB	8	0.23
(1,1881)	1:135:A:ASN:HB3	1:146:A:VAL:HB	8	0.23
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	9	0.23
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	9	0.23
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	2	0.23
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	15	0.23
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	20	0.23
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB2	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB3	17	0.23
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	1	0.23
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	5	0.23
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	6	0.23
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	9	0.23
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	20	0.23
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	3	0.23
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	16	0.23
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	20	0.23
(1,1789)	1:130:A:ASN:HA	1:133:A:LEU:HA	11	0.23
(1,1775)	1:129:A:GLN:HG2	1:133:A:LEU:HD11	14	0.23
(1,1775)	1:129:A:GLN:HG3	1:133:A:LEU:HD11	14	0.23
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	2	0.23
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	8	0.23
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	20	0.23
(1,1735)	1:128:A:VAL:HA	1:131:A:ALA:HA	11	0.23
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	16	0.23
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG2	20	0.23
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG3	20	0.23
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	8	0.23
(1,1619)	1:122:A:PHE:HA	1:123:A:VAL:HG21	12	0.23
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	4	0.23
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	4	0.23
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	4	0.23
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	4	0.23
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	5	0.23
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	5	0.23
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	5	0.23
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	5	0.23
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	3	0.23
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	2	0.23
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	2	0.23
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	17	0.23
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	17	0.23
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	15	0.23
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	15	0.23
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	16	0.23
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	16	0.23
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	19	0.23
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	19	0.23
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	3	0.23
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	11	0.23
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	2	0.23
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	2	0.23
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	8	0.23
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	8	0.23
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	13	0.23
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	13	0.23
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE2	7	0.23
(1,1470)	1:109:A:ASP:HA	1:110:A:LYS:HE3	7	0.23
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	17	0.23
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	14	0.23
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	14	0.23
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	2	0.23
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	2	0.23
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	4	0.23
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	4	0.23
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	8	0.23
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	8	0.23
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	4	0.23
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	7	0.23
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	16	0.23
(1,1447)	1:108:A:THR:HA	1:115:A:LYS:HG2	10	0.23
(1,1447)	1:108:A:THR:HA	1:115:A:LYS:HG3	10	0.23
(1,1416)	1:106:A:ILE:HG12	1:117:A:PHE:HB2	14	0.23
(1,1416)	1:106:A:ILE:HG12	1:117:A:PHE:HB3	14	0.23
(1,1416)	1:106:A:ILE:HG13	1:117:A:PHE:HB2	14	0.23
(1,1416)	1:106:A:ILE:HG13	1:117:A:PHE:HB3	14	0.23
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	10	0.23
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	10	0.23
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	5	0.23
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	18	0.23
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	14	0.23
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	16	0.23
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	3	0.23
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	8	0.23
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	13	0.23
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	13	0.23
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	16	0.23
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	19	0.23
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	19	0.23
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	19	0.23
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	4	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	9	0.23
(1,1321)	1:102:A:ASN:HB2	1:123:A:VAL:HG21	12	0.23
(1,1321)	1:102:A:ASN:HB3	1:123:A:VAL:HG21	12	0.23
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	19	0.23
(1,1283)	1:101:A:VAL:HB	1:104:A:VAL:HB	12	0.23
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	11	0.23
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	3	0.23
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	3	0.23
(1,1238)	1:98:A:CYS:H	1:131:A:ALA:HA	11	0.23
(1,1217)	1:96:A:GLN:HA	1:101:A:VAL:H	16	0.23
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	3	0.23
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	3	0.23
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	17	0.23
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	17	0.23
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	10	0.23
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	18	0.23
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	19	0.23
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	11	0.23
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	11	0.23
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	4	0.23
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	4	0.23
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	6	0.23
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	6	0.23
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	20	0.23
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	20	0.23
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	4	0.23
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	8	0.23
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	12	0.23
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	12	0.23
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	13	0.23
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	13	0.23
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	15	0.23
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	15	0.23
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	1	0.23
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	2	0.23
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	4	0.23
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	7	0.23
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	17	0.23
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	16	0.23
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	16	0.23
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	20	0.23
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	20	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	9	0.23
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	18	0.23
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	1	0.23
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	2	0.23
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	5	0.23
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	4	0.23
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	8	0.23
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	9	0.23
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB2	11	0.23
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB3	11	0.23
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	1	0.23
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	3	0.23
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	4	0.23
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	5	0.23
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	15	0.23
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	1	0.23
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	4	0.23
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	6	0.23
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	11	0.23
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	19	0.23
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	3	0.23
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	14	0.23
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	15	0.23
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	1	0.23
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	15	0.23
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	16	0.23
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	7	0.23
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	7	0.23
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	7	0.23
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	7	0.23
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	11	0.23
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	11	0.23
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	11	0.23
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	11	0.23
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	11	0.23
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	1	0.23
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	6	0.23
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	6	0.23
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	13	0.23
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	13	0.23
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	3	0.23
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	7	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA2	10	0.23
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA3	10	0.23
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA2	10	0.23
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA3	10	0.23
(1,922)	1:82:A:VAL:HA	1:145:A:LYS:H	12	0.23
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	8	0.23
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	19	0.23
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	6	0.23
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	6	0.23
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	14	0.23
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	14	0.23
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	18	0.23
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	4	0.23
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	3	0.23
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	3	0.23
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	3	0.23
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	3	0.23
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	9	0.23
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	9	0.23
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	9	0.23
(1,896)	1:81:A:ASN:HA	1:144:A:LEU:HA	11	0.23
(1,886)	1:80:A:GLY:HA2	1:146:A:VAL:HA	12	0.23
(1,886)	1:80:A:GLY:HA3	1:146:A:VAL:HA	12	0.23
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	9	0.23
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	9	0.23
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	9	0.23
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	9	0.23
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	20	0.23
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	20	0.23
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	20	0.23
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	20	0.23
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	6	0.23
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	6	0.23
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	3	0.23
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	4	0.23
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	9	0.23
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	14	0.23
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	8	0.23
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	8	0.23
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	7	0.23
(1,842)	1:79:A:VAL:HB	1:118:A:ALA:H	12	0.23
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	2	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	3	0.23
(1,826)	1:79:A:VAL:H	1:119:A:TYR:H	3	0.23
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	2	0.23
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	2	0.23
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	2	0.23
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	2	0.23
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	6	0.23
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	6	0.23
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	6	0.23
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	6	0.23
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	19	0.23
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	4	0.23
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	9	0.23
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	19	0.23
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	6	0.23
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	8	0.23
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	19	0.23
(1,700)	1:75:A:ARG:HD2	1:125:A:ILE:HG12	10	0.23
(1,700)	1:75:A:ARG:HD2	1:125:A:ILE:HG13	10	0.23
(1,700)	1:75:A:ARG:HD3	1:125:A:ILE:HG12	10	0.23
(1,700)	1:75:A:ARG:HD3	1:125:A:ILE:HG13	10	0.23
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	11	0.23
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	11	0.23
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	17	0.23
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	17	0.23
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	5	0.23
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	5	0.23
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	7	0.23
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	12	0.23
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	12	0.23
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	5	0.23
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	5	0.23
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	15	0.23
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	15	0.23
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	7	0.23
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	1	0.23
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	1	0.23
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	8	0.23
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	8	0.23
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	6	0.23
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	6	0.23
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	14	0.23
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	6	0.23
(1,619)	1:72:A:VAL:HG11	1:121:A:GLU:HB2	16	0.23
(1,619)	1:72:A:VAL:HG11	1:121:A:GLU:HB3	16	0.23
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	6	0.23
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	6	0.23
(1,579)	1:71:A:GLU:HG2	1:72:A:VAL:HA	10	0.23
(1,579)	1:71:A:GLU:HG3	1:72:A:VAL:HA	10	0.23
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	2	0.23
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	2	0.23
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	2	0.23
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	2	0.23
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	16	0.23
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	16	0.23
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	16	0.23
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	16	0.23
(1,565)	1:71:A:GLU:HG3	1:123:A:VAL:HA	10	0.23
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	15	0.23
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	15	0.23
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	13	0.23
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	13	0.23
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	2	0.23
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	2	0.23
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	7	0.23
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	7	0.23
(1,517)	1:69:A:LYS:HE2	1:73:A:ASP:HB2	11	0.23
(1,517)	1:69:A:LYS:HE2	1:73:A:ASP:HB3	11	0.23
(1,517)	1:69:A:LYS:HE3	1:73:A:ASP:HB2	11	0.23
(1,517)	1:69:A:LYS:HE3	1:73:A:ASP:HB3	11	0.23
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	6	0.23
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	6	0.23
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	8	0.23
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	8	0.23
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	14	0.23
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	20	0.23
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	20	0.23
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	4	0.23
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	4	0.23
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	6	0.23
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	6	0.23
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	13	0.23
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	13	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	17	0.23
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	17	0.23
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	7	0.23
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	19	0.23
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	15	0.23
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	15	0.23
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	17	0.23
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	17	0.23
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	7	0.23
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	3	0.23
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	7	0.23
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	1	0.23
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	1	0.23
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	12	0.23
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	12	0.23
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	5	0.23
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	1	0.23
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	2	0.23
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	4	0.23
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	16	0.23
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	4	0.23
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	4	0.23
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB2	1	0.23
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB3	1	0.23
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	4	0.23
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	4	0.23
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	18	0.23
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	18	0.23
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	17	0.23
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	17	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	5	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	5	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	8	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	8	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	13	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	13	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	16	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	16	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	17	0.23
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	17	0.23
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG2	17	0.23
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG3	17	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	16	0.23
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	18	0.23
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	18	0.23
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	19	0.23
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	19	0.23
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	8	0.23
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	8	0.23
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	15	0.23
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	1	0.23
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	1	0.23
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	17	0.23
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	9	0.23
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	17	0.23
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	9	0.23
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	9	0.23
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	13	0.23
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	13	0.23
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	18	0.23
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	18	0.23
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	2	0.23
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	3	0.23
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	8	0.23
(1,232)	1:54:A:GLY:H	1:56:A:VAL:H	10	0.23
(1,231)	1:53:A:MET:HG2	1:55:A:ALA:H	11	0.23
(1,231)	1:53:A:MET:HG3	1:55:A:ALA:H	11	0.23
(1,229)	1:53:A:MET:HB2	1:56:A:VAL:HG11	7	0.23
(1,229)	1:53:A:MET:HB3	1:56:A:VAL:HG11	7	0.23
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	2	0.23
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	7	0.23
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	4	0.23
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	4	0.23
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	4	0.23
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	14	0.23
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	14	0.23
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	14	0.23
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	14	0.23
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	20	0.23
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	20	0.23
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	20	0.23
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	20	0.23
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB2	6	0.23
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB3	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB2	6	0.23
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB3	6	0.23
(1,169)	1:50:A:GLU:H	1:50:A:GLU:HB2	7	0.23
(1,169)	1:50:A:GLU:H	1:50:A:GLU:HB3	7	0.23
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	12	0.23
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	12	0.23
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	11	0.23
(1,134)	1:48:A:LYS:HD2	1:51:A:LYS:HB2	10	0.23
(1,134)	1:48:A:LYS:HD2	1:51:A:LYS:HB3	10	0.23
(1,134)	1:48:A:LYS:HD3	1:51:A:LYS:HB2	10	0.23
(1,134)	1:48:A:LYS:HD3	1:51:A:LYS:HB3	10	0.23
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	11	0.23
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	2	0.23
(1,100)	1:46:A:GLN:HB2	1:49:A:VAL:HB	1	0.23
(1,100)	1:46:A:GLN:HB3	1:49:A:VAL:HB	1	0.23
(1,100)	1:46:A:GLN:HB2	1:49:A:VAL:HB	19	0.23
(1,100)	1:46:A:GLN:HB3	1:49:A:VAL:HB	19	0.23
(1,93)	1:46:A:GLN:HB2	1:47:A:ALA:HA	16	0.23
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	7	0.23
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	13	0.23
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	13	0.23
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	13	0.23
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	13	0.23
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	14	0.23
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	14	0.23
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	4	0.23
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	4	0.23
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD2	5	0.23
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD3	5	0.23
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	5	0.23
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	4	0.23
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	14	0.23
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	7	0.23
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	7	0.23
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	7	0.23
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	7	0.23
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	20	0.23
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	20	0.23
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	7	0.23
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	18	0.23
(1,23)	1:42:A:LEU:HD11	1:42:A:LEU:HD21	10	0.23
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	3	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	2	0.23
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	3	0.23
(1,2143)	1:151:A:THR:HB	1:152:A:ASN:H	11	0.22
(1,2118)	1:150:A:ARG:H	1:151:A:THR:HA	11	0.22
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB2	6	0.22
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB3	6	0.22
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	15	0.22
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	20	0.22
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	4	0.22
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	4	0.22
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	13	0.22
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	13	0.22
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	14	0.22
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	14	0.22
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	9	0.22
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	2	0.22
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	4	0.22
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	15	0.22
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	16	0.22
(1,2011)	1:142:A:ARG:HG2	1:143:A:GLN:HG2	3	0.22
(1,2011)	1:142:A:ARG:HG2	1:143:A:GLN:HG3	3	0.22
(1,2011)	1:142:A:ARG:HG3	1:143:A:GLN:HG2	3	0.22
(1,2011)	1:142:A:ARG:HG3	1:143:A:GLN:HG3	3	0.22
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD2	16	0.22
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD3	16	0.22
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD2	16	0.22
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD3	16	0.22
(1,1978)	1:139:A:LEU:HG	1:144:A:LEU:HG	15	0.22
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	14	0.22
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	4	0.22
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	13	0.22
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	2	0.22
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	3	0.22
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	6	0.22
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	9	0.22
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	7	0.22
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	7	0.22
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	7	0.22
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	7	0.22
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	14	0.22
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	14	0.22
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	14	0.22
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	6	0.22
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	9	0.22
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	1	0.22
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	1	0.22
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	8	0.22
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	8	0.22
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	19	0.22
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	19	0.22
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	20	0.22
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	20	0.22
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	20	0.22
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	1	0.22
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	5	0.22
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	7	0.22
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	14	0.22
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	18	0.22
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	19	0.22
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB2	13	0.22
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB3	13	0.22
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	2	0.22
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	7	0.22
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	14	0.22
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	4	0.22
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	5	0.22
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	9	0.22
(1,1802)	1:131:A:ALA:H	1:133:A:LEU:H	11	0.22
(1,1752)	1:128:A:VAL:HG21	1:148:A:ALA:HA	3	0.22
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG2	4	0.22
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG3	4	0.22
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	7	0.22
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	5	0.22
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB2	2	0.22
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB3	2	0.22
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	13	0.22
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	7	0.22
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	8	0.22
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	12	0.22
(1,1628)	1:123:A:VAL:H	1:123:A:VAL:HG21	12	0.22
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	2	0.22
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	20	0.22
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	20	0.22
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	20	0.22
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	12	0.22
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	12	0.22
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	12	0.22
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	12	0.22
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	15	0.22
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	15	0.22
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	4	0.22
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	4	0.22
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	6	0.22
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	6	0.22
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	1	0.22
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	1	0.22
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	13	0.22
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	13	0.22
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	9	0.22
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	9	0.22
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	17	0.22
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	17	0.22
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	5	0.22
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	5	0.22
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	16	0.22
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	16	0.22
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	18	0.22
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	18	0.22
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	13	0.22
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	13	0.22
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	1	0.22
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	14	0.22
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	16	0.22
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	20	0.22
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	1	0.22
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	1	0.22
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	6	0.22
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	6	0.22
(1,1461)	1:108:A:THR:HG21	1:116:A:GLY:H	12	0.22
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	18	0.22
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	18	0.22
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	3	0.22
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	3	0.22
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	19	0.22
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	16	0.22
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	4	0.22
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	4	0.22
(1,1429)	1:107:A:LEU:HA	1:108:A:THR:HB	11	0.22
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	13	0.22
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	19	0.22
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	4	0.22
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	6	0.22
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	7	0.22
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	4	0.22
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	9	0.22
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	3	0.22
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	4	0.22
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	15	0.22
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	20	0.22
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	3	0.22
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	3	0.22
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	8	0.22
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	13	0.22
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	17	0.22
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	8	0.22
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	2	0.22
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	6	0.22
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	13	0.22
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	10	0.22
(1,1280)	1:101:A:VAL:HA	1:122:A:PHE:HE1	2	0.22
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	1	0.22
(1,1277)	1:101:A:VAL:HA	1:103:A:ARG:H	19	0.22
(1,1266)	1:99:A:GLY:HA2	1:131:A:ALA:HB3	13	0.22
(1,1266)	1:99:A:GLY:HA3	1:131:A:ALA:HB3	13	0.22
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	5	0.22
(1,1230)	1:96:A:GLN:HG2	1:101:A:VAL:HB	20	0.22
(1,1230)	1:96:A:GLN:HG3	1:101:A:VAL:HB	20	0.22
(1,1226)	1:96:A:GLN:HB2	1:101:A:VAL:HB	13	0.22
(1,1226)	1:96:A:GLN:HB3	1:101:A:VAL:HB	13	0.22
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	5	0.22
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	5	0.22
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	1	0.22
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	8	0.22
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	8	0.22
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	8	0.22
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	11	0.22
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	1	0.22
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	1	0.22
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	15	0.22
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	15	0.22
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	19	0.22
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	19	0.22
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	8	0.22
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	13	0.22
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	20	0.22
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	20	0.22
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	9	0.22
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	8	0.22
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	8	0.22
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	19	0.22
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	19	0.22
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	3	0.22
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	5	0.22
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	6	0.22
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	20	0.22
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	2	0.22
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	2	0.22
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG2	18	0.22
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG3	18	0.22
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	4	0.22
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	19	0.22
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	3	0.22
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	13	0.22
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	8	0.22
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	13	0.22
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	17	0.22
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	4	0.22
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	8	0.22
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	11	0.22
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	18	0.22
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	3	0.22
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	3	0.22
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	3	0.22
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	3	0.22
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	6	0.22
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	6	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	6	0.22
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	6	0.22
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	18	0.22
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	18	0.22
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	18	0.22
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	18	0.22
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	4	0.22
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	5	0.22
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	6	0.22
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG11	20	0.22
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG21	20	0.22
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	5	0.22
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	5	0.22
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	8	0.22
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	8	0.22
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	3	0.22
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	3	0.22
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	3	0.22
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	3	0.22
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	17	0.22
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	17	0.22
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	17	0.22
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	17	0.22
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	1	0.22
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	1	0.22
(1,991)	1:84:A:TYR:HD1	1:114:A:PRO:HA	1	0.22
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	8	0.22
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	8	0.22
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	13	0.22
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	13	0.22
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	15	0.22
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	15	0.22
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	2	0.22
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	7	0.22
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	7	0.22
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	8	0.22
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	8	0.22
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA2	20	0.22
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA3	20	0.22
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA2	20	0.22
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA3	20	0.22
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD2	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD3	9	0.22
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD2	17	0.22
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD3	17	0.22
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	7	0.22
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	7	0.22
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	9	0.22
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	9	0.22
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	13	0.22
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	13	0.22
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	2	0.22
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	2	0.22
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	12	0.22
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	19	0.22
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	19	0.22
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	3	0.22
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	9	0.22
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	17	0.22
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	18	0.22
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	5	0.22
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	7	0.22
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	7	0.22
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	17	0.22
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	6	0.22
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	6	0.22
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	6	0.22
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	6	0.22
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	3	0.22
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	3	0.22
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	13	0.22
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	17	0.22
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	20	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	2	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	2	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	3	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	3	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	6	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	6	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	13	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	13	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	15	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	15	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	16	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	16	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	17	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	17	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	19	0.22
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	19	0.22
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	14	0.22
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	14	0.22
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	19	0.22
(1,827)	1:79:A:VAL:H	1:120:A:VAL:H	12	0.22
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	7	0.22
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	7	0.22
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	7	0.22
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	7	0.22
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	8	0.22
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	13	0.22
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	19	0.22
(1,797)	1:78:A:TYR:HA	1:119:A:TYR:HA	3	0.22
(1,797)	1:78:A:TYR:HA	1:119:A:TYR:HA	7	0.22
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	13	0.22
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	18	0.22
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	8	0.22
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	16	0.22
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	18	0.22
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	3	0.22
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	20	0.22
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	17	0.22
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	7	0.22
(1,725)	1:77:A:ILE:H	1:149:A:LYS:H	12	0.22
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	8	0.22
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	8	0.22
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	5	0.22
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	15	0.22
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	9	0.22
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	9	0.22
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	9	0.22
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	9	0.22
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	18	0.22
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	18	0.22
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	18	0.22
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	18	0.22
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	9	0.22
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	9	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	10	0.22
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	10	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	6	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	6	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	7	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	7	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	8	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	8	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	13	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	13	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	20	0.22
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	20	0.22
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	1	0.22
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	6	0.22
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	13	0.22
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	7	0.22
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	7	0.22
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	14	0.22
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	14	0.22
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	2	0.22
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	2	0.22
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	6	0.22
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	6	0.22
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	7	0.22
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	7	0.22
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	17	0.22
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	17	0.22
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG2	6	0.22
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG3	6	0.22
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG2	6	0.22
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG3	6	0.22
(1,641)	1:73:A:ASP:HA	1:151:A:THR:HG21	3	0.22
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	3	0.22
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	3	0.22
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	2	0.22
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	2	0.22
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	17	0.22
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	15	0.22
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB2	6	0.22
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB3	6	0.22
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	12	0.22
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	16	0.22
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	6	0.22
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	6	0.22
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	7	0.22
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	7	0.22
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	14	0.22
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	14	0.22
(1,564)	1:71:A:GLU:HG2	1:72:A:VAL:H	12	0.22
(1,543)	1:70:A:GLU:HB2	1:71:A:GLU:H	7	0.22
(1,543)	1:70:A:GLU:HB3	1:71:A:GLU:H	7	0.22
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	20	0.22
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	20	0.22
(1,517)	1:69:A:LYS:HE2	1:73:A:ASP:HB2	8	0.22
(1,517)	1:69:A:LYS:HE2	1:73:A:ASP:HB3	8	0.22
(1,517)	1:69:A:LYS:HE3	1:73:A:ASP:HB2	8	0.22
(1,517)	1:69:A:LYS:HE3	1:73:A:ASP:HB3	8	0.22
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	5	0.22
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	5	0.22
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	16	0.22
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	16	0.22
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	1	0.22
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	2	0.22
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	9	0.22
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	16	0.22
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	19	0.22
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	15	0.22
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	15	0.22
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	17	0.22
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	17	0.22
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	12	0.22
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG2	15	0.22
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG3	15	0.22
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	1	0.22
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	1	0.22
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	3	0.22
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	3	0.22
(1,430)	1:66:A:GLN:HA	1:70:A:GLU:H	9	0.22
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	1	0.22
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	1	0.22
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	2	0.22
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	2	0.22
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	4	0.22
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	15	0.22
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	15	0.22
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	8	0.22
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	9	0.22
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	19	0.22
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	19	0.22
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	2	0.22
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	2	0.22
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	3	0.22
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	3	0.22
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	7	0.22
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	7	0.22
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	2	0.22
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	5	0.22
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	14	0.22
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	2	0.22
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	3	0.22
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	10	0.22
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	7	0.22
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB2	5	0.22
(1,350)	1:62:A:THR:HB	1:63:A:SER:HB3	5	0.22
(1,347)	1:62:A:THR:HA	1:65:A:THR:HB	18	0.22
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	2	0.22
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	2	0.22
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	6	0.22
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	8	0.22
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	10	0.22
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	15	0.22
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	15	0.22
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB2	6	0.22
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB3	6	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	1	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	1	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	9	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	9	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	14	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	14	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	17	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	17	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	20	0.22
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	20	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	16	0.22
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	16	0.22
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	16	0.22
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	16	0.22
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	4	0.22
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	4	0.22
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	2	0.22
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	2	0.22
(1,299)	1:57:A:GLN:HA	1:61:A:SER:HA	7	0.22
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	5	0.22
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	5	0.22
(1,292)	1:57:A:GLN:H	1:57:A:GLN:HB2	18	0.22
(1,292)	1:57:A:GLN:H	1:57:A:GLN:HB3	18	0.22
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	5	0.22
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	5	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	2	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	2	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	5	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	5	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	6	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	6	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	14	0.22
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	14	0.22
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	17	0.22
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	17	0.22
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	5	0.22
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	5	0.22
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	9	0.22
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	18	0.22
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	20	0.22
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	20	0.22
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG2	14	0.22
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG3	14	0.22
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	2	0.22
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	16	0.22
(1,219)	1:52:A:GLU:HB2	1:53:A:MET:HG2	12	0.22
(1,219)	1:52:A:GLU:HB2	1:53:A:MET:HG3	12	0.22
(1,219)	1:52:A:GLU:HB3	1:53:A:MET:HG2	12	0.22
(1,219)	1:52:A:GLU:HB3	1:53:A:MET:HG3	12	0.22
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	6	0.22
(1,192)	1:51:A:LYS:H	1:53:A:MET:H	8	0.22
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	8	0.22
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	2	0.22
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	2	0.22
(1,178)	1:50:A:GLU:HA	1:52:A:GLU:H	5	0.22
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG2	2	0.22
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG3	2	0.22
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	14	0.22
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	14	0.22
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	16	0.22
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	9	0.22
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	15	0.22
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	19	0.22
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	20	0.22
(1,145)	1:49:A:VAL:H	1:50:A:GLU:HB2	7	0.22
(1,145)	1:49:A:VAL:H	1:50:A:GLU:HB3	7	0.22
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE2	8	0.22
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE3	8	0.22
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE2	8	0.22
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE3	8	0.22
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	3	0.22
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	3	0.22
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	9	0.22
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD2	1	0.22
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD3	1	0.22
(1,112)	1:47:A:ALA:HA	1:50:A:GLU:H	16	0.22
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	13	0.22
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	14	0.22
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	18	0.22
(1,105)	1:47:A:ALA:H	1:48:A:LYS:HB2	10	0.22
(1,105)	1:47:A:ALA:H	1:48:A:LYS:HB3	10	0.22
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	3	0.22
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	20	0.22
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	20	0.22
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	18	0.22
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	18	0.22
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	18	0.22
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	18	0.22
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	20	0.22
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	20	0.22
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	20	0.22
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	20	0.22
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	18	0.22
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	18	0.22
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	18	0.22
(1,56)	1:45:A:MET:H	1:46:A:GLN:HA	3	0.22
(1,56)	1:45:A:MET:H	1:46:A:GLN:HA	15	0.22
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	6	0.22
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	6	0.22
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	6	0.22
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	6	0.22
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	6	0.22
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	6	0.22
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	6	0.22
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	6	0.22
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	4	0.22
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	4	0.22
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	9	0.22
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	8	0.22
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	5	0.22
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	14	0.22
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	18	0.22
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	20	0.22
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	6	0.22
(1,10)	1:41:A:ALA:HB3	1:42:A:LEU:H	4	0.22
(1,4)	1:41:A:ALA:H	1:45:A:MET:HG2	5	0.22
(1,4)	1:41:A:ALA:H	1:45:A:MET:HG3	5	0.22
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	14	0.21
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	14	0.21
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	16	0.21
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	16	0.21
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	6	0.21
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	6	0.21
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	10	0.21
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	10	0.21
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	12	0.21
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	12	0.21
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	5	0.21
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	7	0.21
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	18	0.21
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	9	0.21
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	9	0.21
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	9	0.21
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2046)	1:144:A:LEU:HB2	1:146:A:VAL:HA	11	0.21
(1,2046)	1:144:A:LEU:HB3	1:146:A:VAL:HA	11	0.21
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	5	0.21
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	5	0.21
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	16	0.21
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	16	0.21
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	1	0.21
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	5	0.21
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	7	0.21
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	8	0.21
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	13	0.21
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	17	0.21
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	18	0.21
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	19	0.21
(1,2005)	1:142:A:ARG:HA	1:143:A:GLN:H	2	0.21
(1,1996)	1:141:A:GLY:H	1:142:A:ARG:H	13	0.21
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB2	15	0.21
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB3	15	0.21
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB2	15	0.21
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB3	15	0.21
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB2	20	0.21
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB3	20	0.21
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB2	20	0.21
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB3	20	0.21
(1,1991)	1:140:A:HIS:HD2	1:142:A:ARG:H	4	0.21
(1,1988)	1:140:A:HIS:HA	1:141:A:GLY:H	16	0.21
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	15	0.21
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	15	0.21
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	18	0.21
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	18	0.21
(1,1965)	1:139:A:LEU:H	1:142:A:ARG:HA	11	0.21
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	17	0.21
(1,1952)	1:138:A:GLU:HA	1:144:A:LEU:H	19	0.21
(1,1950)	1:138:A:GLU:HA	1:143:A:GLN:H	17	0.21
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	12	0.21
(1,1926)	1:137:A:THR:H	1:144:A:LEU:H	19	0.21
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	13	0.21
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	19	0.21
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	19	0.21
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	19	0.21
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	19	0.21
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	15	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	7	0.21
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	5	0.21
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	5	0.21
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	6	0.21
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	6	0.21
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	14	0.21
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	14	0.21
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	7	0.21
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	8	0.21
(1,1839)	1:133:A:LEU:H	1:133:A:LEU:HD11	9	0.21
(1,1837)	1:132:A:LEU:HB2	1:149:A:LYS:H	5	0.21
(1,1837)	1:132:A:LEU:HB3	1:149:A:LYS:H	5	0.21
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	3	0.21
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	10	0.21
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	8	0.21
(1,1826)	1:132:A:LEU:HD11	1:133:A:LEU:HG	12	0.21
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	6	0.21
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	14	0.21
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	17	0.21
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	1	0.21
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	17	0.21
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	18	0.21
(1,1820)	1:132:A:LEU:HA	1:146:A:VAL:HG11	9	0.21
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	7	0.21
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	3	0.21
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	3	0.21
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	4	0.21
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	4	0.21
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	6	0.21
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	6	0.21
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	7	0.21
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	7	0.21
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB2	7	0.21
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB3	7	0.21
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	1	0.21
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	1	0.21
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	3	0.21
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	5	0.21
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	4	0.21
(1,1667)	1:125:A:ILE:H	1:125:A:ILE:HG21	11	0.21
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	13	0.21
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG2	2	0.21
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG3	2	0.21
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	14	0.21
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	16	0.21
(1,1619)	1:122:A:PHE:HA	1:123:A:VAL:HG21	10	0.21
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	3	0.21
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	4	0.21
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	5	0.21
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	8	0.21
(1,1595)	1:119:A:TYR:HB2	1:149:A:LYS:HD2	7	0.21
(1,1595)	1:119:A:TYR:HB2	1:149:A:LYS:HD3	7	0.21
(1,1595)	1:119:A:TYR:HB3	1:149:A:LYS:HD2	7	0.21
(1,1595)	1:119:A:TYR:HB3	1:149:A:LYS:HD3	7	0.21
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	2	0.21
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	2	0.21
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	9	0.21
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	9	0.21
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	8	0.21
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	16	0.21
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	11	0.21
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	17	0.21
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	16	0.21
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	16	0.21
(1,1485)	1:109:A:ASP:HB2	1:117:A:PHE:H	12	0.21
(1,1485)	1:109:A:ASP:HB3	1:117:A:PHE:H	12	0.21
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	2	0.21
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	2	0.21
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	8	0.21
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	14	0.21
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	14	0.21
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	5	0.21
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	6	0.21
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	18	0.21
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	3	0.21
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	3	0.21
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	16	0.21
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	16	0.21
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD2	7	0.21
(1,1455)	1:108:A:THR:HG21	1:110:A:LYS:HD3	7	0.21
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	9	0.21
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	9	0.21
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	17	0.21
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	8	0.21
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	10	0.21
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	4	0.21
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	13	0.21
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	3	0.21
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	14	0.21
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	17	0.21
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	14	0.21
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	15	0.21
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	17	0.21
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	2	0.21
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	9	0.21
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	16	0.21
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	1	0.21
(1,1356)	1:104:A:VAL:HB	1:120:A:VAL:HB	19	0.21
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	2	0.21
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	2	0.21
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	16	0.21
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	16	0.21
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	20	0.21
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	5	0.21
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	5	0.21
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	6	0.21
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	7	0.21
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	15	0.21
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	17	0.21
(1,1293)	1:101:A:VAL:HG21	1:103:A:ARG:HA	9	0.21
(1,1277)	1:101:A:VAL:HA	1:103:A:ARG:H	9	0.21
(1,1265)	1:99:A:GLY:HA2	1:131:A:ALA:HA	14	0.21
(1,1265)	1:99:A:GLY:HA3	1:131:A:ALA:HA	14	0.21
(1,1264)	1:99:A:GLY:HA2	1:131:A:ALA:H	2	0.21
(1,1264)	1:99:A:GLY:HA3	1:131:A:ALA:H	2	0.21
(1,1264)	1:99:A:GLY:HA2	1:131:A:ALA:H	14	0.21
(1,1264)	1:99:A:GLY:HA3	1:131:A:ALA:H	14	0.21
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	5	0.21
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	5	0.21
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	9	0.21
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	9	0.21
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	20	0.21
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	20	0.21
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	6	0.21
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	4	0.21
(1,1203)	1:95:A:PHE:HE1	1:138:A:GLU:H	4	0.21
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	2	0.21
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	1	0.21
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	16	0.21
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	13	0.21
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	13	0.21
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	16	0.21
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	16	0.21
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	5	0.21
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	9	0.21
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	2	0.21
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	6	0.21
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	19	0.21
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	11	0.21
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	5	0.21
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	5	0.21
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	7	0.21
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	7	0.21
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	20	0.21
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	20	0.21
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	15	0.21
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	16	0.21
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	18	0.21
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	8	0.21
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	8	0.21
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	13	0.21
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	13	0.21
(1,1122)	1:91:A:VAL:HA	1:94:A:HIS:H	12	0.21
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	5	0.21
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	9	0.21
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	9	0.21
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	8	0.21
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	2	0.21
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	3	0.21
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	6	0.21
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	12	0.21
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	20	0.21
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	7	0.21
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	11	0.21
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	17	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	18	0.21
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	20	0.21
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	4	0.21
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	5	0.21
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	7	0.21
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	8	0.21
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	9	0.21
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	16	0.21
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	18	0.21
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	8	0.21
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	9	0.21
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	13	0.21
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	18	0.21
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG2	1	0.21
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG3	1	0.21
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	10	0.21
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	14	0.21
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	3	0.21
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	8	0.21
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	19	0.21
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	14	0.21
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	14	0.21
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	14	0.21
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	14	0.21
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	14	0.21
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	14	0.21
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	5	0.21
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	9	0.21
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	11	0.21
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	6	0.21
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	6	0.21
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	2	0.21
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	13	0.21
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	13	0.21
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	4	0.21
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	5	0.21
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	7	0.21
(1,993)	1:84:A:TYR:HD2	1:85:A:ALA:HA	8	0.21
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	3	0.21
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	3	0.21
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	10	0.21
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	4	0.21
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	9	0.21
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	14	0.21
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	15	0.21
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	18	0.21
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	20	0.21
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	5	0.21
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	5	0.21
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	20	0.21
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	20	0.21
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	9	0.21
(1,966)	1:83:A:ASP:HB2	1:86:A:CYS:H	7	0.21
(1,966)	1:83:A:ASP:HB3	1:86:A:CYS:H	7	0.21
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	3	0.21
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	3	0.21
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	18	0.21
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	18	0.21
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	19	0.21
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	19	0.21
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	13	0.21
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	4	0.21
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	4	0.21
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	7	0.21
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	7	0.21
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	14	0.21
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	9	0.21
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	9	0.21
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	6	0.21
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	6	0.21
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	7	0.21
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	7	0.21
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	19	0.21
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	19	0.21
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	14	0.21
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	3	0.21
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	18	0.21
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	4	0.21
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	4	0.21
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	17	0.21
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	17	0.21
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	13	0.21
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	13	0.21
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	13	0.21
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	4	0.21
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	4	0.21
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	18	0.21
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	20	0.21
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	5	0.21
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	19	0.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	1	0.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	1	0.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	9	0.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	9	0.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	14	0.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	14	0.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	20	0.21
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	20	0.21
(1,856)	1:79:A:VAL:HG11	1:146:A:VAL:HA	9	0.21
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	3	0.21
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	3	0.21
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	6	0.21
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	6	0.21
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	16	0.21
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	16	0.21
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	5	0.21
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	4	0.21
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	4	0.21
(1,836)	1:79:A:VAL:HA	1:147:A:SER:H	9	0.21
(1,836)	1:79:A:VAL:HA	1:147:A:SER:H	14	0.21
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG11	10	0.21
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG21	10	0.21
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	1	0.21
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	1	0.21
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	6	0.21
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	6	0.21
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	16	0.21
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	16	0.21
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	1	0.21
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	5	0.21
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	18	0.21
(1,816)	1:78:A:TYR:HB2	1:149:A:LYS:HA	8	0.21
(1,816)	1:78:A:TYR:HB3	1:149:A:LYS:HA	8	0.21
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	8	0.21
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	18	0.21
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	18	0.21
(1,812)	1:78:A:TYR:HB2	1:119:A:TYR:HB2	6	0.21
(1,812)	1:78:A:TYR:HB2	1:119:A:TYR:HB3	6	0.21
(1,812)	1:78:A:TYR:HB3	1:119:A:TYR:HB2	6	0.21
(1,812)	1:78:A:TYR:HB3	1:119:A:TYR:HB3	6	0.21
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	5	0.21
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	9	0.21
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	8	0.21
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	16	0.21
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	8	0.21
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	2	0.21
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	3	0.21
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	7	0.21
(1,770)	1:77:A:ILE:HG21	1:132:A:LEU:H	4	0.21
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	19	0.21
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	5	0.21
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	8	0.21
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	13	0.21
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	3	0.21
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	7	0.21
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	5	0.21
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	11	0.21
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	13	0.21
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	16	0.21
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	17	0.21
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD2	8	0.21
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD3	8	0.21
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD2	8	0.21
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD3	8	0.21
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	5	0.21
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	8	0.21
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	9	0.21
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	17	0.21
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	1	0.21
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	7	0.21
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	8	0.21
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	8	0.21
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	8	0.21
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	8	0.21
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	14	0.21
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	14	0.21
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	14	0.21
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	14	0.21
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	14	0.21
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	14	0.21
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	16	0.21
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	16	0.21
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	19	0.21
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	19	0.21
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	8	0.21
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	8	0.21
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	14	0.21
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	14	0.21
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	17	0.21
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	17	0.21
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	3	0.21
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	4	0.21
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	18	0.21
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	2	0.21
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	2	0.21
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	6	0.21
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	6	0.21
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	5	0.21
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	5	0.21
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG2	8	0.21
(1,654)	1:74:A:SER:HA	1:149:A:LYS:HG3	8	0.21
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	6	0.21
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	6	0.21
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	9	0.21
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	9	0.21
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	8	0.21
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	5	0.21
(1,623)	1:72:A:VAL:HG11	1:123:A:VAL:H	15	0.21
(1,609)	1:72:A:VAL:HB	1:123:A:VAL:HA	15	0.21
(1,601)	1:72:A:VAL:HA	1:123:A:VAL:HA	13	0.21
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	9	0.21
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	9	0.21
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	20	0.21
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	20	0.21
(1,560)	1:71:A:GLU:HA	1:75:A:ARG:H	5	0.21
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	20	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	20	0.21
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB2	7	0.21
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB3	7	0.21
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	16	0.21
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	16	0.21
(1,520)	1:69:A:LYS:HG2	1:70:A:GLU:HA	12	0.21
(1,520)	1:69:A:LYS:HG3	1:70:A:GLU:HA	12	0.21
(1,511)	1:69:A:LYS:HD2	1:72:A:VAL:HB	3	0.21
(1,511)	1:69:A:LYS:HD3	1:72:A:VAL:HB	3	0.21
(1,470)	1:68:A:GLU:HB2	1:72:A:VAL:HG21	5	0.21
(1,470)	1:68:A:GLU:HB3	1:72:A:VAL:HG21	5	0.21
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	2	0.21
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	2	0.21
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	7	0.21
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	7	0.21
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	17	0.21
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	17	0.21
(1,463)	1:68:A:GLU:HA	1:72:A:VAL:HG21	18	0.21
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	7	0.21
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	14	0.21
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	7	0.21
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	15	0.21
(1,458)	1:68:A:GLU:HA	1:70:A:GLU:H	10	0.21
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	20	0.21
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	20	0.21
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	8	0.21
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG2	6	0.21
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG3	6	0.21
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG2	9	0.21
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG3	9	0.21
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	14	0.21
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	14	0.21
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	8	0.21
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	8	0.21
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	1	0.21
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	1	0.21
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	2	0.21
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	2	0.21
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	6	0.21
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	6	0.21
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	17	0.21
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB2	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB3	13	0.21
(1,380)	1:64:A:ALA:HA	1:68:A:GLU:HA	13	0.21
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	1	0.21
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	4	0.21
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	8	0.21
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	3	0.21
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	18	0.21
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	16	0.21
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	15	0.21
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	2	0.21
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	2	0.21
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	6	0.21
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	6	0.21
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	20	0.21
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	20	0.21
(1,329)	1:60:A:SER:HA	1:62:A:THR:HB	17	0.21
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB2	1	0.21
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB3	1	0.21
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	6	0.21
(1,312)	1:58:A:ASP:HB2	1:59:A:SER:HA	11	0.21
(1,312)	1:58:A:ASP:HB3	1:59:A:SER:HA	11	0.21
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	8	0.21
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	8	0.21
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	2	0.21
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	2	0.21
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	3	0.21
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	3	0.21
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	20	0.21
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	20	0.21
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	4	0.21
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	4	0.21
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	12	0.21
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	13	0.21
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	7	0.21
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	7	0.21
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	15	0.21
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	15	0.21
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	18	0.21
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	18	0.21
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	14	0.21
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	13	0.21
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	16	0.21
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	16	0.21
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	3	0.21
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	3	0.21
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	19	0.21
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	19	0.21
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	8	0.21
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	8	0.21
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	19	0.21
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	19	0.21
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	14	0.21
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG2	10	0.21
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG3	10	0.21
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	18	0.21
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	7	0.21
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	16	0.21
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	4	0.21
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	4	0.21
(1,227)	1:53:A:MET:HA	1:56:A:VAL:HG11	4	0.21
(1,227)	1:53:A:MET:HA	1:56:A:VAL:HG11	16	0.21
(1,227)	1:53:A:MET:HA	1:56:A:VAL:HG11	17	0.21
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	7	0.21
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	16	0.21
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	4	0.21
(1,199)	1:51:A:LYS:HA	1:53:A:MET:H	8	0.21
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	19	0.21
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	19	0.21
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB2	1	0.21
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB3	1	0.21
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB2	1	0.21
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB3	1	0.21
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	7	0.21
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	7	0.21
(1,179)	1:50:A:GLU:HA	1:53:A:MET:H	5	0.21
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE2	14	0.21
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE3	14	0.21
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB2	1	0.21
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB3	1	0.21
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB2	7	0.21
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB3	7	0.21
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	11	0.21
(1,143)	1:49:A:VAL:H	1:49:A:VAL:HG11	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:49:A:VAL:H	1:49:A:VAL:HG21	11	0.21
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	9	0.21
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	13	0.21
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	4	0.21
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	4	0.21
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	18	0.21
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	18	0.21
(1,112)	1:47:A:ALA:HA	1:50:A:GLU:H	8	0.21
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	15	0.21
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	16	0.21
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	20	0.21
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	5	0.21
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	2	0.21
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	3	0.21
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	15	0.21
(1,90)	1:46:A:GLN:HA	1:48:A:LYS:HB2	8	0.21
(1,90)	1:46:A:GLN:HA	1:48:A:LYS:HB3	8	0.21
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	2	0.21
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	8	0.21
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	4	0.21
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	4	0.21
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	4	0.21
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	4	0.21
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	15	0.21
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	15	0.21
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	15	0.21
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	15	0.21
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	14	0.21
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	14	0.21
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	14	0.21
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	14	0.21
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	8	0.21
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	8	0.21
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	14	0.21
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	14	0.21
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	1	0.21
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	9	0.21
(1,56)	1:45:A:MET:H	1:46:A:GLN:HA	1	0.21
(1,56)	1:45:A:MET:H	1:46:A:GLN:HA	2	0.21
(1,51)	1:43:A:ARG:HG2	1:45:A:MET:HA	5	0.21
(1,51)	1:43:A:ARG:HG3	1:45:A:MET:HA	5	0.21
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	4	0.21
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	4	0.21
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	4	0.21
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	15	0.21
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	15	0.21
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	15	0.21
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	15	0.21
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	13	0.21
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	13	0.21
(1,41)	1:43:A:ARG:HA	1:45:A:MET:HG2	17	0.21
(1,41)	1:43:A:ARG:HA	1:45:A:MET:HG3	17	0.21
(1,38)	1:43:A:ARG:HA	1:43:A:ARG:HG2	1	0.21
(1,38)	1:43:A:ARG:HA	1:43:A:ARG:HG3	1	0.21
(1,38)	1:43:A:ARG:HA	1:43:A:ARG:HG2	4	0.21
(1,38)	1:43:A:ARG:HA	1:43:A:ARG:HG3	4	0.21
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD2	17	0.21
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD3	17	0.21
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	9	0.21
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	11	0.21
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	15	0.21
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	1	0.21
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	8	0.21
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	13	0.21
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	15	0.21
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	19	0.21
(1,9)	1:41:A:ALA:HA	1:43:A:ARG:H	1	0.21
(1,2)	1:41:A:ALA:H	1:42:A:LEU:HA	6	0.21
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	2	0.2
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	2	0.2
(1,2147)	1:152:A:ASN:HA	1:153:A:ILE:H	12	0.2
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	1	0.2
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	1	0.2
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB2	2	0.2
(1,2132)	1:150:A:ARG:HD2	1:152:A:ASN:HB3	2	0.2
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB2	2	0.2
(1,2132)	1:150:A:ARG:HD3	1:152:A:ASN:HB3	2	0.2
(1,2125)	1:150:A:ARG:HA	1:151:A:THR:HB	1	0.2
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	11	0.2
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	11	0.2
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	8	0.2
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	19	0.2
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	6	0.2
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	6	0.2
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	6	0.2
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	2	0.2
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	2	0.2
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	14	0.2
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	14	0.2
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	19	0.2
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	19	0.2
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	3	0.2
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	6	0.2
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	9	0.2
(1,2034)	1:144:A:LEU:HD11	1:146:A:VAL:H	20	0.2
(1,2005)	1:142:A:ARG:HA	1:143:A:GLN:H	8	0.2
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD2	1	0.2
(1,2000)	1:141:A:GLY:HA2	1:142:A:ARG:HD3	1	0.2
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD2	1	0.2
(1,2000)	1:141:A:GLY:HA3	1:142:A:ARG:HD3	1	0.2
(1,1991)	1:140:A:HIS:HD2	1:142:A:ARG:H	6	0.2
(1,1991)	1:140:A:HIS:HD2	1:142:A:ARG:H	14	0.2
(1,1988)	1:140:A:HIS:HA	1:141:A:GLY:H	15	0.2
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	6	0.2
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	7	0.2
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	18	0.2
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	19	0.2
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	16	0.2
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	8	0.2
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	8	0.2
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	8	0.2
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	8	0.2
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	13	0.2
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	13	0.2
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	20	0.2
(1,1885)	1:136:A:GLU:H	1:137:A:THR:H	1	0.2
(1,1885)	1:136:A:GLU:H	1:137:A:THR:H	4	0.2
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	7	0.2
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	7	0.2
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	18	0.2
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	18	0.2
(1,1879)	1:135:A:ASN:HB2	1:136:A:GLU:HG2	4	0.2
(1,1879)	1:135:A:ASN:HB2	1:136:A:GLU:HG3	4	0.2
(1,1879)	1:135:A:ASN:HB3	1:136:A:GLU:HG2	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1879)	1:135:A:ASN:HB3	1:136:A:GLU:HG3	4	0.2
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	1	0.2
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	16	0.2
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	17	0.2
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	13	0.2
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	5	0.2
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	9	0.2
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	4	0.2
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	7	0.2
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	2	0.2
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	8	0.2
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	20	0.2
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	5	0.2
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	7	0.2
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	8	0.2
(1,1779)	1:130:A:ASN:H	1:131:A:ALA:H	12	0.2
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	8	0.2
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	8	0.2
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	14	0.2
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	2	0.2
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	2	0.2
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	19	0.2
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	19	0.2
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	16	0.2
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	19	0.2
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	17	0.2
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	17	0.2
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	1	0.2
(1,1710)	1:126:A:ASP:HB2	1:127:A:ALA:HA	3	0.2
(1,1710)	1:126:A:ASP:HB3	1:127:A:ALA:HA	3	0.2
(1,1710)	1:126:A:ASP:HB2	1:127:A:ALA:HA	6	0.2
(1,1710)	1:126:A:ASP:HB3	1:127:A:ALA:HA	6	0.2
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	1	0.2
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	16	0.2
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB2	10	0.2
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB3	10	0.2
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG2	8	0.2
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG3	8	0.2
(1,1627)	1:123:A:VAL:H	1:123:A:VAL:HB	2	0.2
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	1	0.2
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	9	0.2
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	11	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	2	0.2
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	20	0.2
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	3	0.2
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	3	0.2
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	3	0.2
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	3	0.2
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	7	0.2
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	7	0.2
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	7	0.2
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	7	0.2
(1,1591)	1:119:A:TYR:H	1:120:A:VAL:HG11	9	0.2
(1,1552)	1:114:A:PRO:HG2	1:115:A:LYS:HA	11	0.2
(1,1552)	1:114:A:PRO:HG3	1:115:A:LYS:HA	11	0.2
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	17	0.2
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	18	0.2
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	5	0.2
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	15	0.2
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	16	0.2
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	19	0.2
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG2	13	0.2
(1,1511)	1:111:A:PHE:H	1:113:A:GLN:HG3	13	0.2
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	17	0.2
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	17	0.2
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	15	0.2
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	15	0.2
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	18	0.2
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	18	0.2
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	8	0.2
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	9	0.2
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	13	0.2
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	13	0.2
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	13	0.2
(1,1453)	1:108:A:THR:HG21	1:109:A:ASP:H	12	0.2
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	18	0.2
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	18	0.2
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	8	0.2
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	18	0.2
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	13	0.2
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	15	0.2
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	16	0.2
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	4	0.2
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	3	0.2
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	9	0.2
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	16	0.2
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	8	0.2
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	9	0.2
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	13	0.2
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	18	0.2
(1,1368)	1:105:A:THR:H	1:119:A:TYR:H	13	0.2
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	5	0.2
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	20	0.2
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	14	0.2
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	15	0.2
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	16	0.2
(1,1356)	1:104:A:VAL:HB	1:120:A:VAL:HB	9	0.2
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	9	0.2
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	14	0.2
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	4	0.2
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	16	0.2
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	1	0.2
(1,1320)	1:102:A:ASN:HB2	1:123:A:VAL:H	11	0.2
(1,1320)	1:102:A:ASN:HB3	1:123:A:VAL:H	11	0.2
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	18	0.2
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	18	0.2
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	6	0.2
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	6	0.2
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	13	0.2
(1,1231)	1:96:A:GLN:HG2	1:101:A:VAL:HG11	20	0.2
(1,1231)	1:96:A:GLN:HG3	1:101:A:VAL:HG11	20	0.2
(1,1217)	1:96:A:GLN:HA	1:101:A:VAL:H	1	0.2
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	14	0.2
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	14	0.2
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	19	0.2
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	19	0.2
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	1	0.2
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	3	0.2
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	17	0.2
(1,1203)	1:95:A:PHE:HE1	1:138:A:GLU:H	8	0.2
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	5	0.2
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	19	0.2
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	7	0.2
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	17	0.2
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	9	0.2
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	9	0.2
(1,1191)	1:95:A:PHE:HA	1:131:A:ALA:HA	18	0.2
(1,1170)	1:93:A:GLN:HA	1:96:A:GLN:HA	8	0.2
(1,1164)	1:93:A:GLN:H	1:96:A:GLN:H	18	0.2
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	17	0.2
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	17	0.2
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	2	0.2
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	3	0.2
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	18	0.2
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	1	0.2
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	17	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	5	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	5	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	8	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	8	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	9	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	9	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	10	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	10	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	19	0.2
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	19	0.2
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	2	0.2
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	4	0.2
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	15	0.2
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	3	0.2
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	3	0.2
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	13	0.2
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	13	0.2
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	8	0.2
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	9	0.2
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	4	0.2
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	9	0.2
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	9	0.2
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	15	0.2
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	16	0.2
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	17	0.2
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	1	0.2
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	14	0.2
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	7	0.2
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	17	0.2
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	16	0.2
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	3	0.2
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	15	0.2
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	14	0.2
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	5	0.2
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	6	0.2
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	7	0.2
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	9	0.2
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	14	0.2
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	9	0.2
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	9	0.2
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	9	0.2
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	9	0.2
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	10	0.2
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	10	0.2
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	10	0.2
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	10	0.2
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	17	0.2
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	17	0.2
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	17	0.2
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	17	0.2
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	18	0.2
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	18	0.2
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	19	0.2
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	19	0.2
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	16	0.2
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	16	0.2
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	16	0.2
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	16	0.2
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG2	13	0.2
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG3	13	0.2
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG2	17	0.2
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG3	17	0.2
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	18	0.2
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	19	0.2
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	1	0.2
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	9	0.2
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG11	8	0.2
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG21	8	0.2
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	8	0.2
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	8	0.2
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	13	0.2
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	3	0.2
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	3	0.2
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	6	0.2
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	6	0.2
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	7	0.2
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	7	0.2
(1,1006)	1:85:A:ALA:H	1:86:A:CYS:HA	12	0.2
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	6	0.2
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	14	0.2
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	14	0.2
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	16	0.2
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	16	0.2
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	17	0.2
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	17	0.2
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	13	0.2
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	4	0.2
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	7	0.2
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	17	0.2
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	17	0.2
(1,960)	1:83:A:ASP:HB2	1:140:A:HIS:HB2	2	0.2
(1,960)	1:83:A:ASP:HB2	1:140:A:HIS:HB3	2	0.2
(1,960)	1:83:A:ASP:HB3	1:140:A:HIS:HB2	2	0.2
(1,960)	1:83:A:ASP:HB3	1:140:A:HIS:HB3	2	0.2
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	3	0.2
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	3	0.2
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	1	0.2
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	1	0.2
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	16	0.2
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	16	0.2
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB2	12	0.2
(1,939)	1:82:A:VAL:HG21	1:117:A:PHE:HB3	12	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	1	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	1	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	3	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	3	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	8	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	8	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	18	0.2
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	18	0.2
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	4	0.2
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	2	0.2
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	5	0.2
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	8	0.2
(1,907)	1:81:A:ASN:HB2	1:145:A:LYS:H	2	0.2
(1,907)	1:81:A:ASN:HB3	1:145:A:LYS:H	2	0.2
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	3	0.2
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	20	0.2
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	8	0.2
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	8	0.2
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	1	0.2
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	1	0.2
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	1	0.2
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	1	0.2
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	7	0.2
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	7	0.2
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	7	0.2
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	7	0.2
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	12	0.2
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	12	0.2
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	13	0.2
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	13	0.2
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	14	0.2
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	14	0.2
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	20	0.2
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	20	0.2
(1,871)	1:80:A:GLY:H	1:146:A:VAL:HA	15	0.2
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	13	0.2
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	17	0.2
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	6	0.2
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	16	0.2
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	5	0.2
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	5	0.2
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	7	0.2
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	7	0.2
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	9	0.2
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	9	0.2
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	15	0.2
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	15	0.2
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	8	0.2
(1,826)	1:79:A:VAL:H	1:119:A:TYR:H	6	0.2
(1,826)	1:79:A:VAL:H	1:119:A:TYR:H	7	0.2
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	20	0.2
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	20	0.2
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	20	0.2
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	20	0.2
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	1	0.2
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	5	0.2
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	3	0.2
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	15	0.2
(1,770)	1:77:A:ILE:HG21	1:132:A:LEU:H	9	0.2
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	1	0.2
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	5	0.2
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	13	0.2
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	14	0.2
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	15	0.2
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	14	0.2
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	15	0.2
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	16	0.2
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	17	0.2
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	15	0.2
(1,712)	1:76:A:SER:H	1:128:A:VAL:HG21	7	0.2
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	3	0.2
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	13	0.2
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	2	0.2
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	4	0.2
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	16	0.2
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	20	0.2
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	14	0.2
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	14	0.2
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	6	0.2
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	6	0.2
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	6	0.2
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	6	0.2
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	7	0.2
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	7	0.2
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	13	0.2
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	13	0.2
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	1	0.2
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	1	0.2
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	4	0.2
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	4	0.2
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	9	0.2
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	9	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	15	0.2
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	15	0.2
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	16	0.2
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	16	0.2
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	20	0.2
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	7	0.2
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	7	0.2
(1,630)	1:72:A:VAL:HG21	1:123:A:VAL:HA	2	0.2
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	20	0.2
(1,625)	1:72:A:VAL:HG11	1:73:A:ASP:HA	18	0.2
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	17	0.2
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB2	16	0.2
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB3	16	0.2
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	10	0.2
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	17	0.2
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	9	0.2
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	9	0.2
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	19	0.2
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	20	0.2
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	9	0.2
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	9	0.2
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	19	0.2
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	19	0.2
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	8	0.2
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	8	0.2
(1,578)	1:71:A:GLU:HG2	1:72:A:VAL:H	12	0.2
(1,578)	1:71:A:GLU:HG3	1:72:A:VAL:H	12	0.2
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB2	3	0.2
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB3	3	0.2
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB2	5	0.2
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB3	5	0.2
(1,552)	1:71:A:GLU:H	1:73:A:ASP:H	11	0.2
(1,539)	1:70:A:GLU:HA	1:74:A:SER:H	12	0.2
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	7	0.2
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	7	0.2
(1,536)	1:70:A:GLU:HA	1:72:A:VAL:H	6	0.2
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	13	0.2
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	13	0.2
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	19	0.2
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	19	0.2
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	6	0.2
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,481)	1:69:A:LYS:H	1:72:A:VAL:H	11	0.2
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	1	0.2
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	1	0.2
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	13	0.2
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	13	0.2
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	3	0.2
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	8	0.2
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	11	0.2
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	7	0.2
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	7	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	3	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	3	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	4	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	4	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	7	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	7	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	14	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	14	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	15	0.2
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	15	0.2
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	3	0.2
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	9	0.2
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	9	0.2
(1,430)	1:66:A:GLN:HA	1:70:A:GLU:H	1	0.2
(1,430)	1:66:A:GLN:HA	1:70:A:GLU:H	4	0.2
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	7	0.2
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	7	0.2
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	18	0.2
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	18	0.2
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	16	0.2
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	16	0.2
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	14	0.2
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	16	0.2
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	4	0.2
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	6	0.2
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	6	0.2
(1,383)	1:64:A:ALA:HA	1:69:A:LYS:HB2	10	0.2
(1,383)	1:64:A:ALA:HA	1:69:A:LYS:HB3	10	0.2
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	2	0.2
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	7	0.2
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	9	0.2
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	14	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	18	0.2
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	19	0.2
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	12	0.2
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	13	0.2
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	17	0.2
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	19	0.2
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	19	0.2
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	19	0.2
(1,329)	1:60:A:SER:HA	1:62:A:THR:HB	16	0.2
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	3	0.2
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	3	0.2
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	5	0.2
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	5	0.2
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	13	0.2
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	13	0.2
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	15	0.2
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	15	0.2
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	12	0.2
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	12	0.2
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	3	0.2
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	3	0.2
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	14	0.2
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	14	0.2
(1,299)	1:57:A:GLN:HA	1:61:A:SER:HA	13	0.2
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG2	6	0.2
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG3	6	0.2
(1,284)	1:56:A:VAL:HG11	1:60:A:SER:H	3	0.2
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	1	0.2
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	1	0.2
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	16	0.2
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	16	0.2
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	2	0.2
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	8	0.2
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	9	0.2
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	18	0.2
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	18	0.2
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	20	0.2
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	20	0.2
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	15	0.2
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	15	0.2
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	2	0.2
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG2	8	0.2
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG3	8	0.2
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG2	18	0.2
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG3	18	0.2
(1,261)	1:56:A:VAL:H	1:60:A:SER:H	11	0.2
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	2	0.2
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB2	15	0.2
(1,251)	1:55:A:ALA:HB3	1:58:A:ASP:HB3	15	0.2
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	14	0.2
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	14	0.2
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG2	5	0.2
(1,244)	1:55:A:ALA:HA	1:57:A:GLN:HG3	5	0.2
(1,229)	1:53:A:MET:HB2	1:56:A:VAL:HG11	15	0.2
(1,229)	1:53:A:MET:HB3	1:56:A:VAL:HG11	15	0.2
(1,227)	1:53:A:MET:HA	1:56:A:VAL:HG11	9	0.2
(1,227)	1:53:A:MET:HA	1:56:A:VAL:HG11	15	0.2
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	1	0.2
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	15	0.2
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	11	0.2
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	15	0.2
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	16	0.2
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	7	0.2
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	7	0.2
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	8	0.2
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	8	0.2
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	3	0.2
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	3	0.2
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	18	0.2
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	18	0.2
(1,179)	1:50:A:GLU:HA	1:53:A:MET:H	7	0.2
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	3	0.2
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	3	0.2
(1,162)	1:49:A:VAL:HG21	1:50:A:GLU:H	10	0.2
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	6	0.2
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	18	0.2
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB2	10	0.2
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB3	10	0.2
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE2	14	0.2
(1,135)	1:48:A:LYS:HD2	1:51:A:LYS:HE3	14	0.2
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE2	14	0.2
(1,135)	1:48:A:LYS:HD3	1:51:A:LYS:HE3	14	0.2
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	17	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	18	0.2
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	5	0.2
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	7	0.2
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	8	0.2
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	5	0.2
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	3	0.2
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	5	0.2
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	16	0.2
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	16	0.2
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	16	0.2
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	16	0.2
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	8	0.2
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	8	0.2
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	8	0.2
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	8	0.2
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	4	0.2
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	4	0.2
(1,74)	1:45:A:MET:HB2	1:48:A:LYS:HD2	13	0.2
(1,74)	1:45:A:MET:HB2	1:48:A:LYS:HD3	13	0.2
(1,74)	1:45:A:MET:HB3	1:48:A:LYS:HD2	13	0.2
(1,74)	1:45:A:MET:HB3	1:48:A:LYS:HD3	13	0.2
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB2	11	0.2
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB3	11	0.2
(1,39)	1:43:A:ARG:HA	1:45:A:MET:H	17	0.2
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	1	0.2
(1,12)	1:41:A:ALA:HB3	1:43:A:ARG:H	13	0.2
(1,1)	1:41:A:ALA:H	1:41:A:ALA:HB3	10	0.2
(1,2153)	1:153:A:ILE:H	1:153:A:ILE:HG21	18	0.19
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	11	0.19
(1,2131)	1:150:A:ARG:HD2	1:151:A:THR:HA	5	0.19
(1,2131)	1:150:A:ARG:HD3	1:151:A:THR:HA	5	0.19
(1,2125)	1:150:A:ARG:HA	1:151:A:THR:HB	17	0.19
(1,2125)	1:150:A:ARG:HA	1:151:A:THR:HB	20	0.19
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB2	10	0.19
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB3	10	0.19
(1,2063)	1:146:A:VAL:H	1:146:A:VAL:HB	9	0.19
(1,2063)	1:146:A:VAL:H	1:146:A:VAL:HB	11	0.19
(1,2062)	1:145:A:LYS:HG2	1:146:A:VAL:HB	18	0.19
(1,2062)	1:145:A:LYS:HG3	1:146:A:VAL:HB	18	0.19
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	5	0.19
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	5	0.19
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	5	0.19
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	17	0.19
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	17	0.19
(1,2011)	1:142:A:ARG:HG2	1:143:A:GLN:HG2	17	0.19
(1,2011)	1:142:A:ARG:HG2	1:143:A:GLN:HG3	17	0.19
(1,2011)	1:142:A:ARG:HG3	1:143:A:GLN:HG2	17	0.19
(1,2011)	1:142:A:ARG:HG3	1:143:A:GLN:HG3	17	0.19
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB2	12	0.19
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB3	12	0.19
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB2	12	0.19
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB3	12	0.19
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA2	11	0.19
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA3	11	0.19
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	17	0.19
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	8	0.19
(1,1919)	1:136:A:GLU:HG2	1:146:A:VAL:HB	9	0.19
(1,1919)	1:136:A:GLU:HG3	1:146:A:VAL:HB	9	0.19
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	14	0.19
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	17	0.19
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	18	0.19
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	6	0.19
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	15	0.19
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	19	0.19
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	4	0.19
(1,1819)	1:132:A:LEU:HA	1:134:A:LEU:H	15	0.19
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	11	0.19
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	11	0.19
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	14	0.19
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	14	0.19
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	16	0.19
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	19	0.19
(1,1780)	1:130:A:ASN:H	1:131:A:ALA:HA	12	0.19
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	2	0.19
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	2	0.19
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	10	0.19
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	10	0.19
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	9	0.19
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	2	0.19
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	5	0.19
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	5	0.19
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB2	5	0.19
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB3	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	12	0.19
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	12	0.19
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	7	0.19
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	7	0.19
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	9	0.19
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	13	0.19
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	19	0.19
(1,1595)	1:119:A:TYR:HB2	1:149:A:LYS:HD2	11	0.19
(1,1595)	1:119:A:TYR:HB2	1:149:A:LYS:HD3	11	0.19
(1,1595)	1:119:A:TYR:HB3	1:149:A:LYS:HD2	11	0.19
(1,1595)	1:119:A:TYR:HB3	1:149:A:LYS:HD3	11	0.19
(1,1566)	1:115:A:LYS:HB2	1:116:A:GLY:H	11	0.19
(1,1566)	1:115:A:LYS:HB3	1:116:A:GLY:H	11	0.19
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	18	0.19
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	18	0.19
(1,1552)	1:114:A:PRO:HG2	1:115:A:LYS:HA	12	0.19
(1,1552)	1:114:A:PRO:HG3	1:115:A:LYS:HA	12	0.19
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	19	0.19
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	2	0.19
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	8	0.19
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	20	0.19
(1,1503)	1:110:A:LYS:HD2	1:115:A:LYS:HD2	17	0.19
(1,1503)	1:110:A:LYS:HD2	1:115:A:LYS:HD3	17	0.19
(1,1503)	1:110:A:LYS:HD3	1:115:A:LYS:HD2	17	0.19
(1,1503)	1:110:A:LYS:HD3	1:115:A:LYS:HD3	17	0.19
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	1	0.19
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	1	0.19
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	5	0.19
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	5	0.19
(1,1485)	1:109:A:ASP:HB2	1:117:A:PHE:H	17	0.19
(1,1485)	1:109:A:ASP:HB3	1:117:A:PHE:H	17	0.19
(1,1480)	1:109:A:ASP:HB2	1:114:A:PRO:HD2	10	0.19
(1,1480)	1:109:A:ASP:HB2	1:114:A:PRO:HD3	10	0.19
(1,1480)	1:109:A:ASP:HB3	1:114:A:PRO:HD2	10	0.19
(1,1480)	1:109:A:ASP:HB3	1:114:A:PRO:HD3	10	0.19
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	6	0.19
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	6	0.19
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	17	0.19
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	17	0.19
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	19	0.19
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	19	0.19
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	3	0.19
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	12	0.19
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	12	0.19
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	8	0.19
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	15	0.19
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	15	0.19
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	3	0.19
(1,1437)	1:108:A:THR:H	1:108:A:THR:HB	11	0.19
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	14	0.19
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	9	0.19
(1,1377)	1:105:A:THR:HB	1:119:A:TYR:H	7	0.19
(1,1374)	1:105:A:THR:HB	1:105:A:THR:HG21	16	0.19
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	13	0.19
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	2	0.19
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	7	0.19
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	13	0.19
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	19	0.19
(1,1350)	1:104:A:VAL:HA	1:120:A:VAL:HA	10	0.19
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	13	0.19
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	13	0.19
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	12	0.19
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	19	0.19
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	20	0.19
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	13	0.19
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	9	0.19
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	20	0.19
(1,1279)	1:101:A:VAL:HA	1:122:A:PHE:HA	9	0.19
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	12	0.19
(1,1266)	1:99:A:GLY:HA2	1:131:A:ALA:HB3	16	0.19
(1,1266)	1:99:A:GLY:HA3	1:131:A:ALA:HB3	16	0.19
(1,1265)	1:99:A:GLY:HA2	1:131:A:ALA:HA	1	0.19
(1,1265)	1:99:A:GLY:HA3	1:131:A:ALA:HA	1	0.19
(1,1264)	1:99:A:GLY:HA2	1:131:A:ALA:H	1	0.19
(1,1264)	1:99:A:GLY:HA3	1:131:A:ALA:H	1	0.19
(1,1264)	1:99:A:GLY:HA2	1:131:A:ALA:H	12	0.19
(1,1264)	1:99:A:GLY:HA3	1:131:A:ALA:H	12	0.19
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	2	0.19
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	2	0.19
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	16	0.19
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	16	0.19
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	16	0.19
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	16	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	18	0.19
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	18	0.19
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	17	0.19
(1,1240)	1:98:A:CYS:H	1:98:A:CYS:HB2	8	0.19
(1,1240)	1:98:A:CYS:H	1:98:A:CYS:HB3	8	0.19
(1,1229)	1:96:A:GLN:HG2	1:100:A:THR:HA	12	0.19
(1,1229)	1:96:A:GLN:HG3	1:100:A:THR:HA	12	0.19
(1,1219)	1:96:A:GLN:HA	1:101:A:VAL:HG11	16	0.19
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	8	0.19
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	18	0.19
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	13	0.19
(1,1203)	1:95:A:PHE:HE1	1:138:A:GLU:H	15	0.19
(1,1170)	1:93:A:GLN:HA	1:96:A:GLN:HA	15	0.19
(1,1155)	1:92:A:GLN:HB2	1:120:A:VAL:HB	11	0.19
(1,1155)	1:92:A:GLN:HB3	1:120:A:VAL:HB	11	0.19
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	6	0.19
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	4	0.19
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	4	0.19
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	16	0.19
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	16	0.19
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	8	0.19
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	13	0.19
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	14	0.19
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	1	0.19
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	2	0.19
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	2	0.19
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	15	0.19
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	15	0.19
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	7	0.19
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	7	0.19
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	3	0.19
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	2	0.19
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	18	0.19
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	19	0.19
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	4	0.19
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	10	0.19
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	13	0.19
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	17	0.19
(1,1081)	1:89:A:GLU:HG2	1:92:A:GLN:HG2	19	0.19
(1,1081)	1:89:A:GLU:HG2	1:92:A:GLN:HG3	19	0.19
(1,1081)	1:89:A:GLU:HG3	1:92:A:GLN:HG2	19	0.19
(1,1081)	1:89:A:GLU:HG3	1:92:A:GLN:HG3	19	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	10	0.19
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	4	0.19
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	13	0.19
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	15	0.19
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	15	0.19
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	16	0.19
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	16	0.19
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	2	0.19
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	2	0.19
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	2	0.19
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	2	0.19
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	17	0.19
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	17	0.19
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	17	0.19
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	17	0.19
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	4	0.19
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	16	0.19
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	5	0.19
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	5	0.19
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	15	0.19
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	15	0.19
(1,1011)	1:85:A:ALA:HB3	1:86:A:CYS:H	19	0.19
(1,1009)	1:85:A:ALA:HA	1:86:A:CYS:H	12	0.19
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	4	0.19
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	4	0.19
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	16	0.19
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	16	0.19
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	19	0.19
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	19	0.19
(1,1006)	1:85:A:ALA:H	1:86:A:CYS:HA	11	0.19
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	13	0.19
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	18	0.19
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	18	0.19
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	18	0.19
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	18	0.19
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	19	0.19
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	19	0.19
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	16	0.19
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	2	0.19
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	13	0.19
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	2	0.19
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,966)	1:83:A:ASP:HB2	1:86:A:CYS:H	11	0.19
(1,966)	1:83:A:ASP:HB3	1:86:A:CYS:H	11	0.19
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	6	0.19
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	6	0.19
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	14	0.19
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	14	0.19
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	7	0.19
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	15	0.19
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	20	0.19
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	6	0.19
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	6	0.19
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	14	0.19
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	14	0.19
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	16	0.19
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	16	0.19
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	4	0.19
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	4	0.19
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	4	0.19
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	4	0.19
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	8	0.19
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	8	0.19
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	17	0.19
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	17	0.19
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	19	0.19
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	19	0.19
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	3	0.19
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	18	0.19
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	18	0.19
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	8	0.19
(1,856)	1:79:A:VAL:HG11	1:146:A:VAL:HA	4	0.19
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	1	0.19
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	1	0.19
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	3	0.19
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	3	0.19
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	13	0.19
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	13	0.19
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	17	0.19
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	17	0.19
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	11	0.19
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	15	0.19
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	5	0.19
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	14	0.19
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	19	0.19
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	19	0.19
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB2	8	0.19
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB3	8	0.19
(1,788)	1:78:A:TYR:H	1:147:A:SER:H	11	0.19
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	20	0.19
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	9	0.19
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	3	0.19
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	1	0.19
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	6	0.19
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	7	0.19
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	10	0.19
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	12	0.19
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	2	0.19
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	19	0.19
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	11	0.19
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	17	0.19
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	19	0.19
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	10	0.19
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	10	0.19
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	4	0.19
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	4	0.19
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	4	0.19
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	4	0.19
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	7	0.19
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	7	0.19
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	7	0.19
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	7	0.19
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	13	0.19
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	13	0.19
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	13	0.19
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	13	0.19
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	6	0.19
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	6	0.19
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	2	0.19
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	2	0.19
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	14	0.19
(1,673)	1:75:A:ARG:HA	1:122:A:PHE:H	1	0.19
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	19	0.19
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	19	0.19
(1,659)	1:74:A:SER:HA	1:151:A:THR:HB	7	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,658)	1:74:A:SER:HA	1:151:A:THR:H	1	0.19
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	18	0.19
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	18	0.19
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	4	0.19
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	4	0.19
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	5	0.19
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	5	0.19
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	7	0.19
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	7	0.19
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	15	0.19
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB2	14	0.19
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB3	14	0.19
(1,612)	1:72:A:VAL:HB	1:73:A:ASP:H	8	0.19
(1,607)	1:72:A:VAL:HA	1:75:A:ARG:HA	10	0.19
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB2	5	0.19
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB3	5	0.19
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	7	0.19
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	15	0.19
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	17	0.19
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	19	0.19
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	19	0.19
(1,573)	1:71:A:GLU:HB2	1:73:A:ASP:H	12	0.19
(1,573)	1:71:A:GLU:HB3	1:73:A:ASP:H	12	0.19
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	14	0.19
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	14	0.19
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	13	0.19
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	13	0.19
(1,521)	1:69:A:LYS:HG2	1:73:A:ASP:H	11	0.19
(1,521)	1:69:A:LYS:HG3	1:73:A:ASP:H	11	0.19
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	14	0.19
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	14	0.19
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	9	0.19
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	9	0.19
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	5	0.19
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	14	0.19
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	14	0.19
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	17	0.19
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	17	0.19
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	2	0.19
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	2	0.19
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	18	0.19
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	18	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	1	0.19
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	7	0.19
(1,448)	1:67:A:ALA:HA	1:70:A:GLU:H	11	0.19
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG2	18	0.19
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG3	18	0.19
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	8	0.19
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	8	0.19
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	16	0.19
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	9	0.19
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	9	0.19
(1,405)	1:65:A:THR:HA	1:69:A:LYS:HB2	12	0.19
(1,405)	1:65:A:THR:HA	1:69:A:LYS:HB3	12	0.19
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	2	0.19
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	14	0.19
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	20	0.19
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	4	0.19
(1,385)	1:64:A:ALA:HB3	1:66:A:GLN:H	10	0.19
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	15	0.19
(1,347)	1:62:A:THR:HA	1:65:A:THR:HB	10	0.19
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	1	0.19
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	1	0.19
(1,329)	1:60:A:SER:HA	1:62:A:THR:HB	20	0.19
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB2	6	0.19
(1,328)	1:60:A:SER:HA	1:61:A:SER:HB3	6	0.19
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	1	0.19
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	9	0.19
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	14	0.19
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	20	0.19
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	2	0.19
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	2	0.19
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	7	0.19
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	7	0.19
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	1	0.19
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	1	0.19
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	6	0.19
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	6	0.19
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	8	0.19
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	8	0.19
(1,303)	1:57:A:GLN:HB2	1:58:A:ASP:H	13	0.19
(1,303)	1:57:A:GLN:HB3	1:58:A:ASP:H	13	0.19
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	20	0.19
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	20	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	1	0.19
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	1	0.19
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	4	0.19
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	1	0.19
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	1	0.19
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	14	0.19
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	14	0.19
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	8	0.19
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	8	0.19
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB2	3	0.19
(1,269)	1:56:A:VAL:HA	1:59:A:SER:HB3	3	0.19
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	3	0.19
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	14	0.19
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	12	0.19
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	2	0.19
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	2	0.19
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	12	0.19
(1,227)	1:53:A:MET:HA	1:56:A:VAL:HG11	19	0.19
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	18	0.19
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG2	8	0.19
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG3	8	0.19
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB2	13	0.19
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB3	13	0.19
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	7	0.19
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	7	0.19
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	3	0.19
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	17	0.19
(1,140)	1:48:A:LYS:HG2	1:52:A:GLU:H	2	0.19
(1,140)	1:48:A:LYS:HG3	1:52:A:GLU:H	2	0.19
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE2	14	0.19
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE3	14	0.19
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	6	0.19
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	20	0.19
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	18	0.19
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	17	0.19
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	14	0.19
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	2	0.19
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	13	0.19
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	17	0.19
(1,93)	1:46:A:GLN:HB2	1:47:A:ALA:HA	18	0.19
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	6	0.19
(1,74)	1:45:A:MET:HB2	1:48:A:LYS:HD2	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,74)	1:45:A:MET:HB2	1:48:A:LYS:HD3	17	0.19
(1,74)	1:45:A:MET:HB3	1:48:A:LYS:HD2	17	0.19
(1,74)	1:45:A:MET:HB3	1:48:A:LYS:HD3	17	0.19
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	1	0.19
(1,51)	1:43:A:ARG:HG2	1:45:A:MET:HA	9	0.19
(1,51)	1:43:A:ARG:HG3	1:45:A:MET:HA	9	0.19
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB2	12	0.19
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB3	12	0.19
(1,33)	1:43:A:ARG:H	1:45:A:MET:H	10	0.19
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	5	0.19
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	3	0.19
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	13	0.19
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	16	0.19
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	18	0.19
(1,17)	1:42:A:LEU:H	1:43:A:ARG:HB2	18	0.19
(1,17)	1:42:A:LEU:H	1:43:A:ARG:HB3	18	0.19
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	10	0.19
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	10	0.18
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	9	0.18
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	9	0.18
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	20	0.18
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	20	0.18
(1,2118)	1:150:A:ARG:H	1:151:A:THR:HA	10	0.18
(1,2118)	1:150:A:ARG:H	1:151:A:THR:HA	12	0.18
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE2	4	0.18
(1,2051)	1:145:A:LYS:HA	1:145:A:LYS:HE3	4	0.18
(1,1996)	1:141:A:GLY:H	1:142:A:ARG:H	7	0.18
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	16	0.18
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	16	0.18
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	19	0.18
(1,1971)	1:139:A:LEU:HA	1:141:A:GLY:H	12	0.18
(1,1955)	1:138:A:GLU:HG2	1:139:A:LEU:H	5	0.18
(1,1955)	1:138:A:GLU:HG3	1:139:A:LEU:H	5	0.18
(1,1950)	1:138:A:GLU:HA	1:143:A:GLN:H	7	0.18
(1,1950)	1:138:A:GLU:HA	1:143:A:GLN:H	19	0.18
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	16	0.18
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	17	0.18
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	16	0.18
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	16	0.18
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	20	0.18
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	20	0.18
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	17	0.18
(1,1856)	1:134:A:LEU:H	1:134:A:LEU:HD21	8	0.18
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	16	0.18
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	3	0.18
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB2	8	0.18
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB3	8	0.18
(1,1802)	1:131:A:ALA:H	1:133:A:LEU:H	12	0.18
(1,1790)	1:130:A:ASN:HA	1:133:A:LEU:HG	3	0.18
(1,1790)	1:130:A:ASN:HA	1:133:A:LEU:HG	14	0.18
(1,1782)	1:130:A:ASN:H	1:133:A:LEU:H	12	0.18
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	4	0.18
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	4	0.18
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	5	0.18
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	9	0.18
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	10	0.18
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	14	0.18
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	13	0.18
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	13	0.18
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	15	0.18
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	15	0.18
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	7	0.18
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	18	0.18
(1,1641)	1:123:A:VAL:HG21	1:124:A:GLU:H	12	0.18
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	10	0.18
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	3	0.18
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	18	0.18
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	18	0.18
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	17	0.18
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	17	0.18
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	17	0.18
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	17	0.18
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	7	0.18
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	3	0.18
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	20	0.18
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	18	0.18
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	12	0.18
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	12	0.18
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	4	0.18
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	4	0.18
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	4	0.18
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	13	0.18
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	13	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	11	0.18
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	11	0.18
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	20	0.18
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	20	0.18
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	2	0.18
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	2	0.18
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	9	0.18
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	11	0.18
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	14	0.18
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	12	0.18
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	6	0.18
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	1	0.18
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	2	0.18
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	6	0.18
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	6	0.18
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	2	0.18
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	6	0.18
(1,1354)	1:104:A:VAL:HB	1:120:A:VAL:H	1	0.18
(1,1341)	1:103:A:ARG:HG2	1:104:A:VAL:H	3	0.18
(1,1341)	1:103:A:ARG:HG3	1:104:A:VAL:H	3	0.18
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	12	0.18
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	12	0.18
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	3	0.18
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	4	0.18
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	9	0.18
(1,1310)	1:102:A:ASN:HB2	1:122:A:PHE:HA	8	0.18
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	18	0.18
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	13	0.18
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	6	0.18
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	18	0.18
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	19	0.18
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	1	0.18
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	1	0.18
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	7	0.18
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	7	0.18
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	12	0.18
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	12	0.18
(1,1219)	1:96:A:GLN:HA	1:101:A:VAL:HG11	18	0.18
(1,1218)	1:96:A:GLN:HA	1:101:A:VAL:HB	18	0.18
(1,1217)	1:96:A:GLN:HA	1:101:A:VAL:H	5	0.18
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	17	0.18
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1176)	1:93:A:GLN:HG2	1:94:A:HIS:HA	16	0.18
(1,1176)	1:93:A:GLN:HG3	1:94:A:HIS:HA	16	0.18
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	8	0.18
(1,1146)	1:92:A:GLN:HA	1:120:A:VAL:HG11	1	0.18
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	14	0.18
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	16	0.18
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	20	0.18
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	7	0.18
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	13	0.18
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	9	0.18
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG2	7	0.18
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG3	7	0.18
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	1	0.18
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	4	0.18
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	13	0.18
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	20	0.18
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	1	0.18
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	11	0.18
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	13	0.18
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	17	0.18
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	16	0.18
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	12	0.18
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	17	0.18
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	20	0.18
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	9	0.18
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	9	0.18
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	9	0.18
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	9	0.18
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	3	0.18
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	3	0.18
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	18	0.18
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	18	0.18
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	8	0.18
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	15	0.18
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	15	0.18
(1,1010)	1:85:A:ALA:HA	1:86:A:CYS:HB2	12	0.18
(1,1010)	1:85:A:ALA:HA	1:86:A:CYS:HB3	12	0.18
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	17	0.18
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	5	0.18
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	5	0.18
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	6	0.18
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	19	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	3	0.18
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	14	0.18
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	14	0.18
(1,950)	1:83:A:ASP:H	1:86:A:CYS:H	12	0.18
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	3	0.18
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	1	0.18
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	17	0.18
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	17	0.18
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	13	0.18
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	5	0.18
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	5	0.18
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	14	0.18
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	14	0.18
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	18	0.18
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	18	0.18
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	9	0.18
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	9	0.18
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	12	0.18
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	1	0.18
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	3	0.18
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	4	0.18
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	7	0.18
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	14	0.18
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	8	0.18
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD11	4	0.18
(1,867)	1:80:A:GLY:H	1:144:A:LEU:HD21	4	0.18
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	7	0.18
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	9	0.18
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	8	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	1	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	1	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	6	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	6	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	7	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	7	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	18	0.18
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	18	0.18
(1,844)	1:79:A:VAL:HB	1:118:A:ALA:HB3	6	0.18
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	2	0.18
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	2	0.18
(1,826)	1:79:A:VAL:H	1:119:A:TYR:H	17	0.18
(1,816)	1:78:A:TYR:HB2	1:149:A:LYS:HA	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,816)	1:78:A:TYR:HB3	1:149:A:LYS:HA	14	0.18
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	11	0.18
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	11	0.18
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	1	0.18
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	16	0.18
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	7	0.18
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	5	0.18
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	14	0.18
(1,766)	1:77:A:ILE:HG21	1:128:A:VAL:HA	4	0.18
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	20	0.18
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	9	0.18
(1,751)	1:77:A:ILE:HB	1:148:A:ALA:HA	10	0.18
(1,749)	1:77:A:ILE:HB	1:147:A:SER:H	9	0.18
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	1	0.18
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	5	0.18
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	14	0.18
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	18	0.18
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	20	0.18
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	9	0.18
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	18	0.18
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	15	0.18
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	15	0.18
(1,686)	1:75:A:ARG:HB2	1:121:A:GLU:HA	16	0.18
(1,686)	1:75:A:ARG:HB3	1:121:A:GLU:HA	16	0.18
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	20	0.18
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	20	0.18
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG12	18	0.18
(1,675)	1:75:A:ARG:HA	1:125:A:ILE:HG13	18	0.18
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	15	0.18
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	5	0.18
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	5	0.18
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	11	0.18
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	11	0.18
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG2	2	0.18
(1,640)	1:73:A:ASP:HA	1:149:A:LYS:HG3	2	0.18
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	8	0.18
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	8	0.18
(1,618)	1:72:A:VAL:HG11	1:121:A:GLU:HA	16	0.18
(1,597)	1:72:A:VAL:H	1:75:A:ARG:HD2	12	0.18
(1,597)	1:72:A:VAL:H	1:75:A:ARG:HD3	12	0.18
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	1	0.18
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	13	0.18
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	3	0.18
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	3	0.18
(1,579)	1:71:A:GLU:HG2	1:72:A:VAL:HA	12	0.18
(1,579)	1:71:A:GLU:HG3	1:72:A:VAL:HA	12	0.18
(1,560)	1:71:A:GLU:HA	1:75:A:ARG:H	3	0.18
(1,558)	1:71:A:GLU:HA	1:74:A:SER:H	1	0.18
(1,558)	1:71:A:GLU:HA	1:74:A:SER:H	3	0.18
(1,536)	1:70:A:GLU:HA	1:72:A:VAL:H	3	0.18
(1,536)	1:70:A:GLU:HA	1:72:A:VAL:H	5	0.18
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	16	0.18
(1,527)	1:70:A:GLU:H	1:71:A:GLU:H	12	0.18
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	9	0.18
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	9	0.18
(1,510)	1:69:A:LYS:HD2	1:72:A:VAL:H	3	0.18
(1,510)	1:69:A:LYS:HD3	1:72:A:VAL:H	3	0.18
(1,498)	1:69:A:LYS:HB2	1:70:A:GLU:H	9	0.18
(1,498)	1:69:A:LYS:HB3	1:70:A:GLU:H	9	0.18
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	4	0.18
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	4	0.18
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	1	0.18
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	11	0.18
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	11	0.18
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	13	0.18
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	13	0.18
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	20	0.18
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	20	0.18
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG2	9	0.18
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG3	9	0.18
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	12	0.18
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	12	0.18
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG2	19	0.18
(1,413)	1:65:A:THR:HB	1:69:A:LYS:HG3	19	0.18
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	2	0.18
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	13	0.18
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	8	0.18
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	8	0.18
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	19	0.18
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	8	0.18
(1,389)	1:64:A:ALA:HB3	1:69:A:LYS:H	1	0.18
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	5	0.18
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,377)	1:64:A:ALA:HA	1:67:A:ALA:H	5	0.18
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	17	0.18
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	1	0.18
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	14	0.18
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	18	0.18
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	4	0.18
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	8	0.18
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	8	0.18
(1,329)	1:60:A:SER:HA	1:62:A:THR:HB	13	0.18
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	5	0.18
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	5	0.18
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	5	0.18
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	5	0.18
(1,299)	1:57:A:GLN:HA	1:61:A:SER:HA	5	0.18
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	14	0.18
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	14	0.18
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	14	0.18
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	14	0.18
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	2	0.18
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	2	0.18
(1,277)	1:56:A:VAL:HB	1:57:A:GLN:HG2	18	0.18
(1,277)	1:56:A:VAL:HB	1:57:A:GLN:HG3	18	0.18
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	2	0.18
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	2	0.18
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	4	0.18
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	20	0.18
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	1	0.18
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	1	0.18
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	16	0.18
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	18	0.18
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	18	0.18
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	6	0.18
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	6	0.18
(1,192)	1:51:A:LYS:H	1:53:A:MET:H	18	0.18
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG2	5	0.18
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG3	5	0.18
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG2	5	0.18
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG3	5	0.18
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	15	0.18
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	15	0.18
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	15	0.18
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB2	8	0.18
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB3	8	0.18
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB2	8	0.18
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB3	8	0.18
(1,178)	1:50:A:GLU:HA	1:52:A:GLU:H	7	0.18
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG2	2	0.18
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG3	2	0.18
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	18	0.18
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	5	0.18
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	2	0.18
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	2	0.18
(1,112)	1:47:A:ALA:HA	1:50:A:GLU:H	11	0.18
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	15	0.18
(1,84)	1:46:A:GLN:H	1:47:A:ALA:HB3	18	0.18
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB2	3	0.18
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB3	3	0.18
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE2	3	0.18
(1,80)	1:45:A:MET:HG2	1:48:A:LYS:HE3	3	0.18
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE2	3	0.18
(1,80)	1:45:A:MET:HG3	1:48:A:LYS:HE3	3	0.18
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	9	0.18
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	9	0.18
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	9	0.18
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	9	0.18
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	6	0.18
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	6	0.18
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	16	0.18
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	16	0.18
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD2	1	0.18
(1,68)	1:45:A:MET:HA	1:48:A:LYS:HD3	1	0.18
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	18	0.18
(1,56)	1:45:A:MET:H	1:46:A:GLN:HA	5	0.18
(1,46)	1:43:A:ARG:HB2	1:45:A:MET:HA	4	0.18
(1,46)	1:43:A:ARG:HB3	1:45:A:MET:HA	4	0.18
(1,35)	1:43:A:ARG:H	1:46:A:GLN:HG2	18	0.18
(1,35)	1:43:A:ARG:H	1:46:A:GLN:HG3	18	0.18
(1,31)	1:42:A:LEU:HB2	1:43:A:ARG:HB2	18	0.18
(1,31)	1:42:A:LEU:HB2	1:43:A:ARG:HB3	18	0.18
(1,31)	1:42:A:LEU:HB3	1:43:A:ARG:HB2	18	0.18
(1,31)	1:42:A:LEU:HB3	1:43:A:ARG:HB3	18	0.18
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	3	0.18
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	16	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	6	0.18
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	4	0.17
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	4	0.17
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	6	0.17
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	6	0.17
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	1	0.17
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	15	0.17
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	8	0.17
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	8	0.17
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	4	0.17
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	4	0.17
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	15	0.17
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	15	0.17
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	4	0.17
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	4	0.17
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB2	8	0.17
(1,2058)	1:145:A:LYS:HD2	1:147:A:SER:HB3	8	0.17
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB2	8	0.17
(1,2058)	1:145:A:LYS:HD3	1:147:A:SER:HB3	8	0.17
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	20	0.17
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	20	0.17
(1,2037)	1:144:A:LEU:HD21	1:145:A:LYS:H	12	0.17
(1,2014)	1:143:A:GLN:H	1:144:A:LEU:HA	11	0.17
(1,1996)	1:141:A:GLY:H	1:142:A:ARG:H	12	0.17
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	7	0.17
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	7	0.17
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	12	0.17
(1,1971)	1:139:A:LEU:HA	1:141:A:GLY:H	14	0.17
(1,1955)	1:138:A:GLU:HG2	1:139:A:LEU:H	1	0.17
(1,1955)	1:138:A:GLU:HG3	1:139:A:LEU:H	1	0.17
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	2	0.17
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	7	0.17
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	11	0.17
(1,1931)	1:137:A:THR:HA	1:143:A:GLN:HA	11	0.17
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	19	0.17
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	2	0.17
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	3	0.17
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	14	0.17
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	18	0.17
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	19	0.17
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	20	0.17
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	20	0.17
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	20	0.17
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	6	0.17
(1,1897)	1:136:A:GLU:HA	1:144:A:LEU:HD11	12	0.17
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	3	0.17
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	14	0.17
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	2	0.17
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	16	0.17
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB2	3	0.17
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB3	3	0.17
(1,1797)	1:130:A:ASN:HB2	1:133:A:LEU:HB2	11	0.17
(1,1797)	1:130:A:ASN:HB2	1:133:A:LEU:HB3	11	0.17
(1,1797)	1:130:A:ASN:HB3	1:133:A:LEU:HB2	11	0.17
(1,1797)	1:130:A:ASN:HB3	1:133:A:LEU:HB3	11	0.17
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	16	0.17
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	16	0.17
(1,1760)	1:129:A:GLN:H	1:131:A:ALA:H	12	0.17
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	16	0.17
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	1	0.17
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	19	0.17
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	19	0.17
(1,1710)	1:126:A:ASP:HB2	1:127:A:ALA:HA	8	0.17
(1,1710)	1:126:A:ASP:HB3	1:127:A:ALA:HA	8	0.17
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	6	0.17
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	6	0.17
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	20	0.17
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	14	0.17
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB2	11	0.17
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB3	11	0.17
(1,1675)	1:125:A:ILE:HA	1:128:A:VAL:HG11	6	0.17
(1,1641)	1:123:A:VAL:HG21	1:124:A:GLU:H	10	0.17
(1,1639)	1:123:A:VAL:HB	1:124:A:GLU:H	12	0.17
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG2	2	0.17
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG3	2	0.17
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	3	0.17
(1,1604)	1:120:A:VAL:HA	1:121:A:GLU:HB2	20	0.17
(1,1604)	1:120:A:VAL:HA	1:121:A:GLU:HB3	20	0.17
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	20	0.17
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	3	0.17
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	6	0.17
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	10	0.17
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	10	0.17
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	10	0.17
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	1	0.17
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	3	0.17
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	3	0.17
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	10	0.17
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	4	0.17
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	4	0.17
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	4	0.17
(1,1457)	1:108:A:THR:HG21	1:115:A:LYS:HA	12	0.17
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	19	0.17
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	6	0.17
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	5	0.17
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	4	0.17
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	17	0.17
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	8	0.17
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	17	0.17
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	4	0.17
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	19	0.17
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	3	0.17
(1,1377)	1:105:A:THR:HB	1:119:A:TYR:H	13	0.17
(1,1370)	1:105:A:THR:HA	1:105:A:THR:HG21	5	0.17
(1,1364)	1:104:A:VAL:HG21	1:120:A:VAL:HA	6	0.17
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	2	0.17
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	3	0.17
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	8	0.17
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	15	0.17
(1,1316)	1:102:A:ASN:HB2	1:121:A:GLU:HA	1	0.17
(1,1316)	1:102:A:ASN:HB3	1:121:A:GLU:HA	1	0.17
(1,1309)	1:102:A:ASN:HA	1:122:A:PHE:HA	8	0.17
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	19	0.17
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	19	0.17
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	1	0.17
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	1	0.17
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	10	0.17
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	10	0.17
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	13	0.17
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	13	0.17
(1,1254)	1:99:A:GLY:H	1:131:A:ALA:H	3	0.17
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	15	0.17
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	9	0.17
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1203)	1:95:A:PHE:HE1	1:138:A:GLU:H	20	0.17
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	20	0.17
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	2	0.17
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	2	0.17
(1,1193)	1:95:A:PHE:HA	1:95:A:PHE:HE1	12	0.17
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	10	0.17
(1,1146)	1:92:A:GLN:HA	1:120:A:VAL:HG11	15	0.17
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	17	0.17
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	1	0.17
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	1	0.17
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	2	0.17
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	2	0.17
(1,1138)	1:92:A:GLN:H	1:93:A:GLN:HA	19	0.17
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	3	0.17
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	5	0.17
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	6	0.17
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	17	0.17
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	20	0.17
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	15	0.17
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	15	0.17
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	20	0.17
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	11	0.17
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	11	0.17
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	14	0.17
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	19	0.17
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	18	0.17
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG2	8	0.17
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG3	8	0.17
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	3	0.17
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	15	0.17
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	6	0.17
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	11	0.17
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	16	0.17
(1,1069)	1:89:A:GLU:HA	1:91:A:VAL:H	6	0.17
(1,1069)	1:89:A:GLU:HA	1:91:A:VAL:H	12	0.17
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	16	0.17
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	20	0.17
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	1	0.17
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	11	0.17
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	11	0.17
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	11	0.17
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1055)	1:88:A:PRO:HB2	1:89:A:GLU:H	12	0.17
(1,1055)	1:88:A:PRO:HB3	1:89:A:GLU:H	12	0.17
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	20	0.17
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	20	0.17
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	20	0.17
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	20	0.17
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	9	0.17
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	9	0.17
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	13	0.17
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	15	0.17
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	1	0.17
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	1	0.17
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	1	0.17
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	7	0.17
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	7	0.17
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	7	0.17
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	10	0.17
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	10	0.17
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	4	0.17
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	4	0.17
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	4	0.17
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	4	0.17
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	19	0.17
(1,959)	1:83:A:ASP:HB2	1:140:A:HIS:HA	12	0.17
(1,959)	1:83:A:ASP:HB3	1:140:A:HIS:HA	12	0.17
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	17	0.17
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	17	0.17
(1,928)	1:82:A:VAL:HB	1:116:A:GLY:H	5	0.17
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	15	0.17
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	1	0.17
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	14	0.17
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	14	0.17
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	19	0.17
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	19	0.17
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	5	0.17
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	5	0.17
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	3	0.17
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	3	0.17
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	18	0.17
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	18	0.17
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	8	0.17
(1,875)	1:80:A:GLY:H	1:82:A:VAL:HG21	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	5	0.17
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	9	0.17
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	12	0.17
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	7	0.17
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	10	0.17
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	10	0.17
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	7	0.17
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	7	0.17
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	11	0.17
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	11	0.17
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	11	0.17
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	11	0.17
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	15	0.17
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	15	0.17
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	14	0.17
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	2	0.17
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	15	0.17
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	5	0.17
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	20	0.17
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	6	0.17
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	2	0.17
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	4	0.17
(1,733)	1:77:A:ILE:HA	1:146:A:VAL:HG11	18	0.17
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	4	0.17
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	4	0.17
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	8	0.17
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	8	0.17
(1,716)	1:76:A:SER:HA	1:122:A:PHE:H	12	0.17
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	2	0.17
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	2	0.17
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	15	0.17
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	15	0.17
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	7	0.17
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	17	0.17
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	17	0.17
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	15	0.17
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	15	0.17
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	15	0.17
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	15	0.17
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	20	0.17
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	20	0.17
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	20	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	20	0.17
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	19	0.17
(1,673)	1:75:A:ARG:HA	1:122:A:PHE:H	19	0.17
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	13	0.17
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	13	0.17
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	16	0.17
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	16	0.17
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	6	0.17
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	6	0.17
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	13	0.17
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	14	0.17
(1,609)	1:72:A:VAL:HB	1:123:A:VAL:HA	13	0.17
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	3	0.17
(1,599)	1:72:A:VAL:HA	1:122:A:PHE:HA	16	0.17
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	16	0.17
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	6	0.17
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	9	0.17
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	5	0.17
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	5	0.17
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	14	0.17
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	14	0.17
(1,578)	1:71:A:GLU:HG2	1:72:A:VAL:H	10	0.17
(1,578)	1:71:A:GLU:HG3	1:72:A:VAL:H	10	0.17
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	16	0.17
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	16	0.17
(1,536)	1:70:A:GLU:HA	1:72:A:VAL:H	16	0.17
(1,536)	1:70:A:GLU:HA	1:72:A:VAL:H	19	0.17
(1,511)	1:69:A:LYS:HD2	1:72:A:VAL:HB	10	0.17
(1,511)	1:69:A:LYS:HD3	1:72:A:VAL:HB	10	0.17
(1,501)	1:69:A:LYS:HB2	1:70:A:GLU:HG2	12	0.17
(1,501)	1:69:A:LYS:HB2	1:70:A:GLU:HG3	12	0.17
(1,501)	1:69:A:LYS:HB3	1:70:A:GLU:HG2	12	0.17
(1,501)	1:69:A:LYS:HB3	1:70:A:GLU:HG3	12	0.17
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	6	0.17
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	6	0.17
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	15	0.17
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	16	0.17
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	17	0.17
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	17	0.17
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	2	0.17
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	2	0.17
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	1	0.17
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	8	0.17
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	8	0.17
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	2	0.17
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	8	0.17
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	8	0.17
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG2	4	0.17
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG3	4	0.17
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	4	0.17
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	4	0.17
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	13	0.17
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	13	0.17
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	19	0.17
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	19	0.17
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	12	0.17
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	7	0.17
(1,386)	1:64:A:ALA:HB3	1:68:A:GLU:H	5	0.17
(1,376)	1:64:A:ALA:HA	1:66:A:GLN:H	12	0.17
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	2	0.17
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	3	0.17
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	8	0.17
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	1	0.17
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	18	0.17
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	19	0.17
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	19	0.17
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	13	0.17
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	13	0.17
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	13	0.17
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	13	0.17
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	20	0.17
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	20	0.17
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	20	0.17
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	20	0.17
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB2	6	0.17
(1,300)	1:57:A:GLN:HA	1:61:A:SER:HB3	6	0.17
(1,299)	1:57:A:GLN:HA	1:61:A:SER:HA	17	0.17
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG2	3	0.17
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG3	3	0.17
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	6	0.17
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	6	0.17
(1,282)	1:56:A:VAL:HB	1:61:A:SER:HA	3	0.17
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	5	0.17
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	5	0.17
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	18	0.17
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	18	0.17
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	5	0.17
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	13	0.17
(1,252)	1:55:A:ALA:HB3	1:59:A:SER:H	11	0.17
(1,249)	1:55:A:ALA:HB3	1:57:A:GLN:H	12	0.17
(1,248)	1:55:A:ALA:HB3	1:56:A:VAL:H	10	0.17
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB2	17	0.17
(1,247)	1:55:A:ALA:HA	1:59:A:SER:HB3	17	0.17
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	16	0.17
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	16	0.17
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	16	0.17
(1,232)	1:54:A:GLY:H	1:56:A:VAL:H	16	0.17
(1,217)	1:52:A:GLU:HA	1:56:A:VAL:HA	11	0.17
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	11	0.17
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	11	0.17
(1,179)	1:50:A:GLU:HA	1:53:A:MET:H	18	0.17
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB2	19	0.17
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB3	19	0.17
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	1	0.17
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	14	0.17
(1,124)	1:48:A:LYS:HA	1:48:A:LYS:HG2	10	0.17
(1,124)	1:48:A:LYS:HA	1:48:A:LYS:HG3	10	0.17
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	16	0.17
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	16	0.17
(1,105)	1:47:A:ALA:H	1:48:A:LYS:HB2	8	0.17
(1,105)	1:47:A:ALA:H	1:48:A:LYS:HB3	8	0.17
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	7	0.17
(1,90)	1:46:A:GLN:HA	1:48:A:LYS:HB2	10	0.17
(1,90)	1:46:A:GLN:HA	1:48:A:LYS:HB3	10	0.17
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	13	0.17
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	7	0.17
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	7	0.17
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	19	0.17
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	19	0.17
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	4	0.17
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	4	0.17
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	4	0.17
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	4	0.17
(1,54)	1:45:A:MET:H	1:45:A:MET:HB2	11	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:45:A:MET:H	1:45:A:MET:HB3	11	0.17
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB2	2	0.17
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB3	2	0.17
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	8	0.17
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	7	0.17
(1,9)	1:41:A:ALA:HA	1:43:A:ARG:H	14	0.17
(1,9)	1:41:A:ALA:HA	1:43:A:ARG:H	20	0.17
(1,1)	1:41:A:ALA:H	1:41:A:ALA:HB3	6	0.17
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	12	0.16
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	13	0.16
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	13	0.16
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	12	0.16
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	18	0.16
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	20	0.16
(1,2101)	1:149:A:LYS:HA	1:150:A:ARG:HA	10	0.16
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	1	0.16
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	3	0.16
(1,2072)	1:146:A:VAL:HG11	1:147:A:SER:H	13	0.16
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	16	0.16
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	16	0.16
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	17	0.16
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	17	0.16
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	4	0.16
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	4	0.16
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	4	0.16
(1,1997)	1:141:A:GLY:H	1:142:A:ARG:HA	7	0.16
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB2	4	0.16
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB3	4	0.16
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB2	4	0.16
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB3	4	0.16
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	14	0.16
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	14	0.16
(1,1971)	1:139:A:LEU:HA	1:141:A:GLY:H	6	0.16
(1,1967)	1:139:A:LEU:H	1:144:A:LEU:HG	2	0.16
(1,1955)	1:138:A:GLU:HG2	1:139:A:LEU:H	17	0.16
(1,1955)	1:138:A:GLU:HG3	1:139:A:LEU:H	17	0.16
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	2	0.16
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	6	0.16
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA2	12	0.16
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA3	12	0.16
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA2	16	0.16
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA3	16	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1934)	1:137:A:THR:HB	1:138:A:GLU:H	11	0.16
(1,1926)	1:137:A:THR:H	1:144:A:LEU:H	2	0.16
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	8	0.16
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	19	0.16
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	19	0.16
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	19	0.16
(1,1894)	1:136:A:GLU:HA	1:138:A:GLU:H	19	0.16
(1,1886)	1:136:A:GLU:H	1:146:A:VAL:H	12	0.16
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	15	0.16
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	15	0.16
(1,1857)	1:134:A:LEU:H	1:134:A:LEU:HG	8	0.16
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	13	0.16
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB2	16	0.16
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB3	16	0.16
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	6	0.16
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	2	0.16
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	8	0.16
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	16	0.16
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	16	0.16
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	16	0.16
(1,1795)	1:130:A:ASN:HB2	1:131:A:ALA:HA	11	0.16
(1,1795)	1:130:A:ASN:HB3	1:131:A:ALA:HA	11	0.16
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	6	0.16
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	10	0.16
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	13	0.16
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	18	0.16
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	10	0.16
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	17	0.16
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	15	0.16
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG2	10	0.16
(1,1742)	1:128:A:VAL:HG11	1:129:A:GLN:HG3	10	0.16
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	15	0.16
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	10	0.16
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	10	0.16
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	10	0.16
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	2	0.16
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	3	0.16
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	8	0.16
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	9	0.16
(1,1710)	1:126:A:ASP:HB2	1:127:A:ALA:HA	4	0.16
(1,1710)	1:126:A:ASP:HB3	1:127:A:ALA:HA	4	0.16
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	13	0.16
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	19	0.16
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	19	0.16
(1,1704)	1:126:A:ASP:HA	1:129:A:GLN:H	16	0.16
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	15	0.16
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	5	0.16
(1,1676)	1:125:A:ILE:HA	1:129:A:GLN:H	10	0.16
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	4	0.16
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	4	0.16
(1,1657)	1:124:A:GLU:HB2	1:126:A:ASP:H	10	0.16
(1,1657)	1:124:A:GLU:HB3	1:126:A:ASP:H	10	0.16
(1,1653)	1:124:A:GLU:HA	1:126:A:ASP:H	6	0.16
(1,1653)	1:124:A:GLU:HA	1:126:A:ASP:H	13	0.16
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG2	1	0.16
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG3	1	0.16
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	13	0.16
(1,1607)	1:120:A:VAL:HG11	1:121:A:GLU:H	10	0.16
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	17	0.16
(1,1595)	1:119:A:TYR:HB2	1:149:A:LYS:HD2	3	0.16
(1,1595)	1:119:A:TYR:HB2	1:149:A:LYS:HD3	3	0.16
(1,1595)	1:119:A:TYR:HB3	1:149:A:LYS:HD2	3	0.16
(1,1595)	1:119:A:TYR:HB3	1:149:A:LYS:HD3	3	0.16
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	17	0.16
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	6	0.16
(1,1503)	1:110:A:LYS:HD2	1:115:A:LYS:HD2	4	0.16
(1,1503)	1:110:A:LYS:HD2	1:115:A:LYS:HD3	4	0.16
(1,1503)	1:110:A:LYS:HD3	1:115:A:LYS:HD2	4	0.16
(1,1503)	1:110:A:LYS:HD3	1:115:A:LYS:HD3	4	0.16
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB2	17	0.16
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB3	17	0.16
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB2	17	0.16
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB3	17	0.16
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB2	20	0.16
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB3	20	0.16
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB2	20	0.16
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB3	20	0.16
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	14	0.16
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	14	0.16
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	15	0.16
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	15	0.16
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	20	0.16
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	20	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1486)	1:109:A:ASP:HB2	1:117:A:PHE:HB2	12	0.16
(1,1486)	1:109:A:ASP:HB2	1:117:A:PHE:HB3	12	0.16
(1,1486)	1:109:A:ASP:HB3	1:117:A:PHE:HB2	12	0.16
(1,1486)	1:109:A:ASP:HB3	1:117:A:PHE:HB3	12	0.16
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	17	0.16
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	1	0.16
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	1	0.16
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	3	0.16
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	16	0.16
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	16	0.16
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	11	0.16
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	17	0.16
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	8	0.16
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	14	0.16
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	19	0.16
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	20	0.16
(1,1424)	1:107:A:LEU:H	1:118:A:ALA:HA	15	0.16
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	18	0.16
(1,1416)	1:106:A:ILE:HG12	1:117:A:PHE:HB2	6	0.16
(1,1416)	1:106:A:ILE:HG12	1:117:A:PHE:HB3	6	0.16
(1,1416)	1:106:A:ILE:HG13	1:117:A:PHE:HB2	6	0.16
(1,1416)	1:106:A:ILE:HG13	1:117:A:PHE:HB3	6	0.16
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	7	0.16
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	16	0.16
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	7	0.16
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	4	0.16
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	15	0.16
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	16	0.16
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	11	0.16
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	9	0.16
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	19	0.16
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	5	0.16
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	18	0.16
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	17	0.16
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	13	0.16
(1,1341)	1:103:A:ARG:HG2	1:104:A:VAL:H	8	0.16
(1,1341)	1:103:A:ARG:HG3	1:104:A:VAL:H	8	0.16
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	9	0.16
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	9	0.16
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	7	0.16
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	3	0.16
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	19	0.16
(1,1316)	1:102:A:ASN:HB2	1:121:A:GLU:HA	15	0.16
(1,1316)	1:102:A:ASN:HB3	1:121:A:GLU:HA	15	0.16
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD2	19	0.16
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD3	19	0.16
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD2	19	0.16
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD3	19	0.16
(1,1305)	1:102:A:ASN:H	1:121:A:GLU:H	10	0.16
(1,1277)	1:101:A:VAL:HA	1:103:A:ARG:H	13	0.16
(1,1272)	1:101:A:VAL:H	1:101:A:VAL:HG11	11	0.16
(1,1272)	1:101:A:VAL:H	1:101:A:VAL:HG21	11	0.16
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	3	0.16
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	4	0.16
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	4	0.16
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	11	0.16
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	11	0.16
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	7	0.16
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB2	15	0.16
(1,1212)	1:96:A:GLN:H	1:97:A:SER:HB3	15	0.16
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	6	0.16
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	6	0.16
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	10	0.16
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	10	0.16
(1,1184)	1:94:A:HIS:HA	1:96:A:GLN:H	6	0.16
(1,1176)	1:93:A:GLN:HG2	1:94:A:HIS:HA	11	0.16
(1,1176)	1:93:A:GLN:HG3	1:94:A:HIS:HA	11	0.16
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	2	0.16
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	9	0.16
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	19	0.16
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	7	0.16
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	9	0.16
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB2	11	0.16
(1,1141)	1:92:A:GLN:H	1:94:A:HIS:HB3	11	0.16
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	5	0.16
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	13	0.16
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	15	0.16
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	15	0.16
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	9	0.16
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB2	4	0.16
(1,1123)	1:91:A:VAL:HA	1:94:A:HIS:HB3	4	0.16
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	6	0.16
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1095)	1:90:A:GLU:HA	1:92:A:GLN:H	15	0.16
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG2	2	0.16
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG3	2	0.16
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	6	0.16
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	14	0.16
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	1	0.16
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	18	0.16
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	11	0.16
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG2	17	0.16
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG3	17	0.16
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG2	19	0.16
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG3	19	0.16
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	2	0.16
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	2	0.16
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	6	0.16
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	11	0.16
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	15	0.16
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	18	0.16
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	2	0.16
(1,1062)	1:89:A:GLU:H	1:90:A:GLU:H	10	0.16
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	13	0.16
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	13	0.16
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	13	0.16
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	13	0.16
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	16	0.16
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	16	0.16
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	16	0.16
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	16	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	1	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	1	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	1	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	1	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	5	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	5	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	5	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	5	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	10	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	10	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	10	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	10	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	13	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	13	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	13	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	15	0.16
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	15	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	15	0.16
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	15	0.16
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	10	0.16
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	10	0.16
(1,1034)	1:87:A:THR:HA	1:90:A:GLU:HG2	4	0.16
(1,1034)	1:87:A:THR:HA	1:90:A:GLU:HG3	4	0.16
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	9	0.16
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	9	0.16
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	14	0.16
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	12	0.16
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	14	0.16
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	15	0.16
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB2	9	0.16
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB3	9	0.16
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB2	9	0.16
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB3	9	0.16
(1,966)	1:83:A:ASP:HB2	1:86:A:CYS:H	6	0.16
(1,966)	1:83:A:ASP:HB3	1:86:A:CYS:H	6	0.16
(1,966)	1:83:A:ASP:HB2	1:86:A:CYS:H	9	0.16
(1,966)	1:83:A:ASP:HB3	1:86:A:CYS:H	9	0.16
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	5	0.16
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	5	0.16
(1,960)	1:83:A:ASP:HB2	1:140:A:HIS:HB2	20	0.16
(1,960)	1:83:A:ASP:HB2	1:140:A:HIS:HB3	20	0.16
(1,960)	1:83:A:ASP:HB3	1:140:A:HIS:HB2	20	0.16
(1,960)	1:83:A:ASP:HB3	1:140:A:HIS:HB3	20	0.16
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA2	13	0.16
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA3	13	0.16
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA2	13	0.16
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA3	13	0.16
(1,937)	1:82:A:VAL:HG21	1:117:A:PHE:H	12	0.16
(1,928)	1:82:A:VAL:HB	1:116:A:GLY:H	12	0.16
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	2	0.16
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	2	0.16
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	2	0.16
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	13	0.16
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	13	0.16
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	15	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	15	0.16
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	20	0.16
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	20	0.16
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	16	0.16
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	13	0.16
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	13	0.16
(1,907)	1:81:A:ASN:HB2	1:145:A:LYS:H	15	0.16
(1,907)	1:81:A:ASN:HB3	1:145:A:LYS:H	15	0.16
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG2	5	0.16
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG3	5	0.16
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG2	5	0.16
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG3	5	0.16
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	8	0.16
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	6	0.16
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	9	0.16
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	9	0.16
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	2	0.16
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	2	0.16
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	2	0.16
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	2	0.16
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	14	0.16
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	14	0.16
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	14	0.16
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	14	0.16
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	12	0.16
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	6	0.16
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	9	0.16
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	14	0.16
(1,871)	1:80:A:GLY:H	1:146:A:VAL:HA	2	0.16
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	6	0.16
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	16	0.16
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	1	0.16
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	19	0.16
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	7	0.16
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	17	0.16
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	17	0.16
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	16	0.16
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	16	0.16
(1,825)	1:79:A:VAL:H	1:118:A:ALA:HA	6	0.16
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	19	0.16
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	19	0.16
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	19	0.16
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	10	0.16
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	3	0.16
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	9	0.16
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	17	0.16
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	20	0.16
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	6	0.16
(1,786)	1:78:A:TYR:H	1:146:A:VAL:HA	18	0.16
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	7	0.16
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	19	0.16
(1,773)	1:77:A:ILE:HG21	1:148:A:ALA:HA	6	0.16
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	6	0.16
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	7	0.16
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	2	0.16
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	15	0.16
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	3	0.16
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	3	0.16
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	18	0.16
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	18	0.16
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	6	0.16
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD2	2	0.16
(1,721)	1:76:A:SER:HB2	1:149:A:LYS:HD3	2	0.16
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD2	2	0.16
(1,721)	1:76:A:SER:HB3	1:149:A:LYS:HD3	2	0.16
(1,716)	1:76:A:SER:HA	1:122:A:PHE:H	4	0.16
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	4	0.16
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	4	0.16
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	6	0.16
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	6	0.16
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	18	0.16
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	3	0.16
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	5	0.16
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	5	0.16
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	2	0.16
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	2	0.16
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	2	0.16
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	2	0.16
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	10	0.16
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	10	0.16
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	10	0.16
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	10	0.16
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	9	0.16
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	17	0.16
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	5	0.16
(1,674)	1:75:A:ARG:HA	1:125:A:ILE:HA	17	0.16
(1,673)	1:75:A:ARG:HA	1:122:A:PHE:H	7	0.16
(1,669)	1:75:A:ARG:H	1:121:A:GLU:HA	8	0.16
(1,669)	1:75:A:ARG:H	1:121:A:GLU:HA	10	0.16
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	1	0.16
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	1	0.16
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG2	18	0.16
(1,646)	1:73:A:ASP:HB2	1:149:A:LYS:HG3	18	0.16
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG2	18	0.16
(1,646)	1:73:A:ASP:HB3	1:149:A:LYS:HG3	18	0.16
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	3	0.16
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	5	0.16
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	6	0.16
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	20	0.16
(1,612)	1:72:A:VAL:HB	1:73:A:ASP:H	11	0.16
(1,609)	1:72:A:VAL:HB	1:123:A:VAL:HA	20	0.16
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	19	0.16
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB2	3	0.16
(1,594)	1:72:A:VAL:H	1:74:A:SER:HB3	3	0.16
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	3	0.16
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	18	0.16
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	8	0.16
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	18	0.16
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	17	0.16
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	17	0.16
(1,580)	1:71:A:GLU:HG2	1:74:A:SER:H	1	0.16
(1,580)	1:71:A:GLU:HG3	1:74:A:SER:H	1	0.16
(1,579)	1:71:A:GLU:HG2	1:72:A:VAL:HA	11	0.16
(1,579)	1:71:A:GLU:HG3	1:72:A:VAL:HA	11	0.16
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	19	0.16
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	19	0.16
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	19	0.16
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	19	0.16
(1,561)	1:71:A:GLU:HG2	1:123:A:VAL:HA	14	0.16
(1,560)	1:71:A:GLU:HA	1:75:A:ARG:H	16	0.16
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB2	1	0.16
(1,559)	1:71:A:GLU:HA	1:74:A:SER:HB3	1	0.16
(1,557)	1:71:A:GLU:HA	1:73:A:ASP:H	3	0.16
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	5	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	5	0.16
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	20	0.16
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	20	0.16
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	17	0.16
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	17	0.16
(1,526)	1:70:A:GLU:H	1:70:A:GLU:HG2	19	0.16
(1,526)	1:70:A:GLU:H	1:70:A:GLU:HG3	19	0.16
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	14	0.16
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	14	0.16
(1,499)	1:69:A:LYS:HB2	1:70:A:GLU:HA	10	0.16
(1,499)	1:69:A:LYS:HB3	1:70:A:GLU:HA	10	0.16
(1,494)	1:69:A:LYS:HA	1:73:A:ASP:HB2	9	0.16
(1,494)	1:69:A:LYS:HA	1:73:A:ASP:HB3	9	0.16
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	14	0.16
(1,466)	1:68:A:GLU:HB2	1:70:A:GLU:H	11	0.16
(1,466)	1:68:A:GLU:HB3	1:70:A:GLU:H	11	0.16
(1,458)	1:68:A:GLU:HA	1:70:A:GLU:H	15	0.16
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	12	0.16
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	12	0.16
(1,430)	1:66:A:GLN:HA	1:70:A:GLU:H	20	0.16
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	3	0.16
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	3	0.16
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	1	0.16
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	7	0.16
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	7	0.16
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	15	0.16
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	15	0.16
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	17	0.16
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	2	0.16
(1,367)	1:63:A:SER:HA	1:67:A:ALA:H	6	0.16
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	15	0.16
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	6	0.16
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	1	0.16
(1,340)	1:62:A:THR:H	1:62:A:THR:HB	9	0.16
(1,314)	1:58:A:ASP:HB2	1:61:A:SER:HB2	12	0.16
(1,314)	1:58:A:ASP:HB2	1:61:A:SER:HB3	12	0.16
(1,314)	1:58:A:ASP:HB3	1:61:A:SER:HB2	12	0.16
(1,314)	1:58:A:ASP:HB3	1:61:A:SER:HB3	12	0.16
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	6	0.16
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	6	0.16
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	7	0.16
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	7	0.16
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	7	0.16
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB2	19	0.16
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB3	19	0.16
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB2	19	0.16
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB3	19	0.16
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	2	0.16
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	2	0.16
(1,282)	1:56:A:VAL:HB	1:61:A:SER:HA	17	0.16
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	9	0.16
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	9	0.16
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	4	0.16
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	4	0.16
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	7	0.16
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	7	0.16
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	4	0.16
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	4	0.16
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	1	0.16
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	16	0.16
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	1	0.16
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	8	0.16
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	14	0.16
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	13	0.16
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	13	0.16
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	11	0.16
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	11	0.16
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	8	0.16
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	2	0.16
(1,216)	1:52:A:GLU:HA	1:56:A:VAL:H	13	0.16
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	4	0.16
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	4	0.16
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	9	0.16
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	9	0.16
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	16	0.16
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	16	0.16
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB2	8	0.16
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB3	8	0.16
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	16	0.16
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	16	0.16
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	5	0.16
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	16	0.16
(1,155)	1:49:A:VAL:HA	1:52:A:GLU:HG2	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:49:A:VAL:HA	1:52:A:GLU:HG3	19	0.16
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	4	0.16
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	19	0.16
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	13	0.16
(1,85)	1:46:A:GLN:H	1:48:A:LYS:H	10	0.16
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	11	0.16
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	11	0.16
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE2	3	0.16
(1,69)	1:45:A:MET:HA	1:48:A:LYS:HE3	3	0.16
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	17	0.16
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	17	0.16
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	17	0.16
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	17	0.16
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB2	5	0.16
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB3	5	0.16
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB2	20	0.16
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB3	20	0.16
(1,27)	1:42:A:LEU:HG	1:43:A:ARG:HB2	11	0.16
(1,27)	1:42:A:LEU:HG	1:43:A:ARG:HB3	11	0.16
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	7	0.16
(1,9)	1:41:A:ALA:HA	1:43:A:ARG:H	2	0.16
(1,2147)	1:152:A:ASN:HA	1:153:A:ILE:H	18	0.15
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	5	0.15
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	17	0.15
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	17	0.15
(1,2100)	1:149:A:LYS:HA	1:150:A:ARG:H	12	0.15
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	16	0.15
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	16	0.15
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	2	0.15
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	2	0.15
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	17	0.15
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	17	0.15
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	4	0.15
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	4	0.15
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	6	0.15
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	6	0.15
(1,1996)	1:141:A:GLY:H	1:142:A:ARG:H	14	0.15
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB2	16	0.15
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB3	16	0.15
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB2	16	0.15
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB3	16	0.15
(1,1985)	1:140:A:HIS:H	1:141:A:GLY:H	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	12	0.15
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	12	0.15
(1,1960)	1:139:A:LEU:H	1:139:A:LEU:HD11	8	0.15
(1,1952)	1:138:A:GLU:HA	1:144:A:LEU:H	2	0.15
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	12	0.15
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	17	0.15
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA2	8	0.15
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA3	8	0.15
(1,1926)	1:137:A:THR:H	1:144:A:LEU:H	14	0.15
(1,1923)	1:137:A:THR:H	1:137:A:THR:HG21	13	0.15
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG2	19	0.15
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG3	19	0.15
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG2	19	0.15
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG3	19	0.15
(1,1909)	1:136:A:GLU:HB2	1:144:A:LEU:HD11	12	0.15
(1,1909)	1:136:A:GLU:HB3	1:144:A:LEU:HD11	12	0.15
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	16	0.15
(1,1885)	1:136:A:GLU:H	1:137:A:THR:H	6	0.15
(1,1885)	1:136:A:GLU:H	1:137:A:THR:H	20	0.15
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	14	0.15
(1,1857)	1:134:A:LEU:H	1:134:A:LEU:HG	18	0.15
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	6	0.15
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	10	0.15
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	18	0.15
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	17	0.15
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	7	0.15
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	7	0.15
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	1	0.15
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	5	0.15
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	6	0.15
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	13	0.15
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	13	0.15
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	9	0.15
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	2	0.15
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	18	0.15
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	13	0.15
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	17	0.15
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	19	0.15
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	8	0.15
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	8	0.15
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	17	0.15
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	1	0.15
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	3	0.15
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	13	0.15
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	17	0.15
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	20	0.15
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	4	0.15
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	19	0.15
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	1	0.15
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	1	0.15
(1,1728)	1:128:A:VAL:H	1:130:A:ASN:H	7	0.15
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	8	0.15
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	6	0.15
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB2	13	0.15
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB3	13	0.15
(1,1675)	1:125:A:ILE:HA	1:128:A:VAL:HG11	14	0.15
(1,1663)	1:124:A:GLU:HG2	1:127:A:ALA:HB3	19	0.15
(1,1663)	1:124:A:GLU:HG3	1:127:A:ALA:HB3	19	0.15
(1,1653)	1:124:A:GLU:HA	1:126:A:ASP:H	11	0.15
(1,1631)	1:123:A:VAL:H	1:124:A:GLU:HB2	13	0.15
(1,1631)	1:123:A:VAL:H	1:124:A:GLU:HB3	13	0.15
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	5	0.15
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	4	0.15
(1,1604)	1:120:A:VAL:HA	1:121:A:GLU:HB2	17	0.15
(1,1604)	1:120:A:VAL:HA	1:121:A:GLU:HB3	17	0.15
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	15	0.15
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	15	0.15
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	15	0.15
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	15	0.15
(1,1591)	1:119:A:TYR:H	1:120:A:VAL:HG11	1	0.15
(1,1583)	1:117:A:PHE:HB2	1:118:A:ALA:H	3	0.15
(1,1583)	1:117:A:PHE:HB3	1:118:A:ALA:H	3	0.15
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	1	0.15
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	1	0.15
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	20	0.15
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	20	0.15
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	20	0.15
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	20	0.15
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	2	0.15
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	5	0.15
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	9	0.15
(1,1514)	1:111:A:PHE:HA	1:112:A:GLY:H	13	0.15
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	5	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	5	0.15
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	9	0.15
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	9	0.15
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	13	0.15
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	13	0.15
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	16	0.15
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	2	0.15
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	15	0.15
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	15	0.15
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	15	0.15
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	16	0.15
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	16	0.15
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	9	0.15
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	9	0.15
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	14	0.15
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	20	0.15
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	7	0.15
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	18	0.15
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	2	0.15
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	5	0.15
(1,1383)	1:106:A:ILE:H	1:106:A:ILE:HD11	5	0.15
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	6	0.15
(1,1366)	1:105:A:THR:H	1:105:A:THR:HB	20	0.15
(1,1359)	1:104:A:VAL:HG11	1:105:A:THR:HA	18	0.15
(1,1358)	1:104:A:VAL:HG11	1:105:A:THR:H	18	0.15
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	6	0.15
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	2	0.15
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	15	0.15
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	17	0.15
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	17	0.15
(1,1310)	1:102:A:ASN:HB2	1:122:A:PHE:HA	2	0.15
(1,1309)	1:102:A:ASN:HA	1:122:A:PHE:HA	7	0.15
(1,1305)	1:102:A:ASN:H	1:121:A:GLU:H	12	0.15
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	5	0.15
(1,1277)	1:101:A:VAL:HA	1:103:A:ARG:H	17	0.15
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	20	0.15
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	6	0.15
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	6	0.15
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	2	0.15
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	2	0.15
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	17	0.15
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1215)	1:96:A:GLN:HA	1:100:A:THR:H	12	0.15
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	20	0.15
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	15	0.15
(1,1200)	1:95:A:PHE:HA	1:99:A:GLY:H	16	0.15
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	15	0.15
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	17	0.15
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	19	0.15
(1,1160)	1:92:A:GLN:HG2	1:104:A:VAL:HB	2	0.15
(1,1160)	1:92:A:GLN:HG3	1:104:A:VAL:HB	2	0.15
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	1	0.15
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	16	0.15
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	19	0.15
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	8	0.15
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	15	0.15
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	16	0.15
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	18	0.15
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	14	0.15
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	2	0.15
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	2	0.15
(1,1099)	1:90:A:GLU:HA	1:94:A:HIS:H	8	0.15
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	20	0.15
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG2	19	0.15
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG3	19	0.15
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG2	20	0.15
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG3	20	0.15
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	2	0.15
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	16	0.15
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	16	0.15
(1,1074)	1:89:A:GLU:HA	1:93:A:GLN:HG2	8	0.15
(1,1074)	1:89:A:GLU:HA	1:93:A:GLN:HG3	8	0.15
(1,1070)	1:89:A:GLU:HA	1:92:A:GLN:H	17	0.15
(1,1069)	1:89:A:GLU:HA	1:91:A:VAL:H	11	0.15
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	1	0.15
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	10	0.15
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	13	0.15
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	17	0.15
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	3	0.15
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	3	0.15
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	6	0.15
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	17	0.15
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	17	0.15
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	7	0.15
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	2	0.15
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	2	0.15
(1,1018)	1:86:A:CYS:HA	1:90:A:GLU:HG2	2	0.15
(1,1018)	1:86:A:CYS:HA	1:90:A:GLU:HG3	2	0.15
(1,1018)	1:86:A:CYS:HA	1:90:A:GLU:HG2	4	0.15
(1,1018)	1:86:A:CYS:HA	1:90:A:GLU:HG3	4	0.15
(1,1003)	1:85:A:ALA:H	1:140:A:HIS:HD2	9	0.15
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE2	10	0.15
(1,992)	1:84:A:TYR:HD2	1:115:A:LYS:HE3	10	0.15
(1,988)	1:84:A:TYR:HA	1:86:A:CYS:H	17	0.15
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	17	0.15
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB2	3	0.15
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB3	3	0.15
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB2	3	0.15
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB3	3	0.15
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	9	0.15
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	9	0.15
(1,960)	1:83:A:ASP:HB2	1:140:A:HIS:HB2	15	0.15
(1,960)	1:83:A:ASP:HB2	1:140:A:HIS:HB3	15	0.15
(1,960)	1:83:A:ASP:HB3	1:140:A:HIS:HB2	15	0.15
(1,960)	1:83:A:ASP:HB3	1:140:A:HIS:HB3	15	0.15
(1,946)	1:83:A:ASP:H	1:140:A:HIS:HB2	11	0.15
(1,946)	1:83:A:ASP:H	1:140:A:HIS:HB3	11	0.15
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	5	0.15
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	5	0.15
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	13	0.15
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	13	0.15
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	16	0.15
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	16	0.15
(1,917)	1:82:A:VAL:H	1:82:A:VAL:HB	11	0.15
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	11	0.15
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	19	0.15
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	5	0.15
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	5	0.15
(1,907)	1:81:A:ASN:HB2	1:145:A:LYS:H	17	0.15
(1,907)	1:81:A:ASN:HB3	1:145:A:LYS:H	17	0.15
(1,905)	1:81:A:ASN:HB2	1:143:A:GLN:HG2	14	0.15
(1,905)	1:81:A:ASN:HB2	1:143:A:GLN:HG3	14	0.15
(1,905)	1:81:A:ASN:HB3	1:143:A:GLN:HG2	14	0.15
(1,905)	1:81:A:ASN:HB3	1:143:A:GLN:HG3	14	0.15
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG2	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG3	9	0.15
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG2	9	0.15
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG3	9	0.15
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	2	0.15
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	2	0.15
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	6	0.15
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	6	0.15
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	3	0.15
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	3	0.15
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	3	0.15
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	3	0.15
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	1	0.15
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	1	0.15
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	2	0.15
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	2	0.15
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	5	0.15
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	5	0.15
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	7	0.15
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	7	0.15
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	8	0.15
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	17	0.15
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	18	0.15
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	19	0.15
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	2	0.15
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	8	0.15
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	3	0.15
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	17	0.15
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	17	0.15
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	5	0.15
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	5	0.15
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	7	0.15
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	7	0.15
(1,836)	1:79:A:VAL:HA	1:147:A:SER:H	4	0.15
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	17	0.15
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	17	0.15
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	18	0.15
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	18	0.15
(1,824)	1:79:A:VAL:H	1:118:A:ALA:H	6	0.15
(1,816)	1:78:A:TYR:HB2	1:149:A:LYS:HA	4	0.15
(1,816)	1:78:A:TYR:HB3	1:149:A:LYS:HA	4	0.15
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	3	0.15
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	3	0.15
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	3	0.15
(1,812)	1:78:A:TYR:HB2	1:119:A:TYR:HB2	3	0.15
(1,812)	1:78:A:TYR:HB2	1:119:A:TYR:HB3	3	0.15
(1,812)	1:78:A:TYR:HB3	1:119:A:TYR:HB2	3	0.15
(1,812)	1:78:A:TYR:HB3	1:119:A:TYR:HB3	3	0.15
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	2	0.15
(1,788)	1:78:A:TYR:H	1:147:A:SER:H	5	0.15
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	5	0.15
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	13	0.15
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	1	0.15
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	17	0.15
(1,773)	1:77:A:ILE:HG21	1:148:A:ALA:HA	2	0.15
(1,770)	1:77:A:ILE:HG21	1:132:A:LEU:H	3	0.15
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	2	0.15
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	2	0.15
(1,751)	1:77:A:ILE:HB	1:148:A:ALA:HA	7	0.15
(1,749)	1:77:A:ILE:HB	1:147:A:SER:H	5	0.15
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	19	0.15
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	6	0.15
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	6	0.15
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	8	0.15
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	8	0.15
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	3	0.15
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	4	0.15
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	11	0.15
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	11	0.15
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	11	0.15
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	11	0.15
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	20	0.15
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	20	0.15
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	18	0.15
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	18	0.15
(1,676)	1:75:A:ARG:HA	1:128:A:VAL:HB	16	0.15
(1,673)	1:75:A:ARG:HA	1:122:A:PHE:H	2	0.15
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	13	0.15
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	13	0.15
(1,664)	1:74:A:SER:HA	1:75:A:ARG:HD2	13	0.15
(1,664)	1:74:A:SER:HA	1:75:A:ARG:HD3	13	0.15
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	9	0.15
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	9	0.15
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	9	0.15
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	12	0.15
(1,610)	1:72:A:VAL:HB	1:123:A:VAL:HG21	12	0.15
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	16	0.15
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	16	0.15
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	19	0.15
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	20	0.15
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	4	0.15
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	3	0.15
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	3	0.15
(1,558)	1:71:A:GLU:HA	1:74:A:SER:H	5	0.15
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB2	8	0.15
(1,538)	1:70:A:GLU:HA	1:73:A:ASP:HB3	8	0.15
(1,537)	1:70:A:GLU:HA	1:73:A:ASP:H	3	0.15
(1,537)	1:70:A:GLU:HA	1:73:A:ASP:H	16	0.15
(1,536)	1:70:A:GLU:HA	1:72:A:VAL:H	18	0.15
(1,498)	1:69:A:LYS:HB2	1:70:A:GLU:H	6	0.15
(1,498)	1:69:A:LYS:HB3	1:70:A:GLU:H	6	0.15
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	8	0.15
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	20	0.15
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	20	0.15
(1,465)	1:68:A:GLU:HB2	1:69:A:LYS:HA	19	0.15
(1,465)	1:68:A:GLU:HB3	1:69:A:LYS:HA	19	0.15
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	3	0.15
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	3	0.15
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG2	13	0.15
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG3	13	0.15
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	15	0.15
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	15	0.15
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	16	0.15
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	16	0.15
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	20	0.15
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	20	0.15
(1,441)	1:67:A:ALA:H	1:69:A:LYS:H	12	0.15
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	14	0.15
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	14	0.15
(1,430)	1:66:A:GLN:HA	1:70:A:GLU:H	18	0.15
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	5	0.15
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	5	0.15
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	1	0.15
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	5	0.15
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB2	6	0.15
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB3	6	0.15
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	14	0.15
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	15	0.15
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	19	0.15
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	17	0.15
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	18	0.15
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	1	0.15
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	17	0.15
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	5	0.15
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	15	0.15
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB2	9	0.15
(1,331)	1:60:A:SER:HA	1:63:A:SER:HB3	9	0.15
(1,320)	1:59:A:SER:HA	1:61:A:SER:H	12	0.15
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	8	0.15
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	17	0.15
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	18	0.15
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	7	0.15
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	7	0.15
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	19	0.15
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	19	0.15
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	20	0.15
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	20	0.15
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	6	0.15
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	6	0.15
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	8	0.15
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	8	0.15
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	9	0.15
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	9	0.15
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	3	0.15
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	15	0.15
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	5	0.15
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	6	0.15
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	5	0.15
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	18	0.15
(1,234)	1:54:A:GLY:HA2	1:56:A:VAL:HG21	4	0.15
(1,234)	1:54:A:GLY:HA3	1:56:A:VAL:HG21	4	0.15
(1,231)	1:53:A:MET:HG2	1:55:A:ALA:H	13	0.15
(1,231)	1:53:A:MET:HG3	1:55:A:ALA:H	13	0.15
(1,229)	1:53:A:MET:HB2	1:56:A:VAL:HG11	18	0.15
(1,229)	1:53:A:MET:HB3	1:56:A:VAL:HG11	18	0.15
(1,219)	1:52:A:GLU:HB2	1:53:A:MET:HG2	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:52:A:GLU:HB2	1:53:A:MET:HG3	19	0.15
(1,219)	1:52:A:GLU:HB3	1:53:A:MET:HG2	19	0.15
(1,219)	1:52:A:GLU:HB3	1:53:A:MET:HG3	19	0.15
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	6	0.15
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	6	0.15
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	2	0.15
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	2	0.15
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG2	18	0.15
(1,186)	1:50:A:GLU:HB2	1:53:A:MET:HG3	18	0.15
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG2	18	0.15
(1,186)	1:50:A:GLU:HB3	1:53:A:MET:HG3	18	0.15
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE2	2	0.15
(1,184)	1:50:A:GLU:HB2	1:51:A:LYS:HE3	2	0.15
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE2	2	0.15
(1,184)	1:50:A:GLU:HB3	1:51:A:LYS:HE3	2	0.15
(1,182)	1:50:A:GLU:HB2	1:51:A:LYS:H	19	0.15
(1,182)	1:50:A:GLU:HB3	1:51:A:LYS:H	19	0.15
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	10	0.15
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	10	0.15
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	18	0.15
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	2	0.15
(1,156)	1:49:A:VAL:HB	1:49:A:VAL:HG21	10	0.15
(1,140)	1:48:A:LYS:HG2	1:52:A:GLU:H	12	0.15
(1,140)	1:48:A:LYS:HG3	1:52:A:GLU:H	12	0.15
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	1	0.15
(1,127)	1:48:A:LYS:HA	1:51:A:LYS:H	8	0.15
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	3	0.15
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	3	0.15
(1,112)	1:47:A:ALA:HA	1:50:A:GLU:H	13	0.15
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	13	0.15
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	10	0.15
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	1	0.15
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB2	5	0.15
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB3	5	0.15
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	9	0.15
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	9	0.15
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	9	0.15
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	9	0.15
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	3	0.15
(1,65)	1:45:A:MET:HA	1:47:A:ALA:HB3	6	0.15
(1,51)	1:43:A:ARG:HG2	1:45:A:MET:HA	18	0.15
(1,51)	1:43:A:ARG:HG3	1:45:A:MET:HA	18	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD2	6	0.15
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD3	6	0.15
(1,4)	1:41:A:ALA:H	1:45:A:MET:HG2	4	0.15
(1,4)	1:41:A:ALA:H	1:45:A:MET:HG3	4	0.15
(1,2)	1:41:A:ALA:H	1:42:A:LEU:HA	1	0.15
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	7	0.14
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	7	0.14
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	17	0.14
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	17	0.14
(1,2147)	1:152:A:ASN:HA	1:153:A:ILE:H	19	0.14
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	8	0.14
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	19	0.14
(1,2098)	1:149:A:LYS:HA	1:149:A:LYS:HE2	9	0.14
(1,2098)	1:149:A:LYS:HA	1:149:A:LYS:HE3	9	0.14
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	1	0.14
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	1	0.14
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	8	0.14
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	8	0.14
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	8	0.14
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	8	0.14
(1,2085)	1:148:A:ALA:HB3	1:150:A:ARG:H	13	0.14
(1,2085)	1:148:A:ALA:HB3	1:150:A:ARG:H	20	0.14
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	7	0.14
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	7	0.14
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	16	0.14
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	16	0.14
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	9	0.14
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	9	0.14
(1,2026)	1:144:A:LEU:H	1:145:A:LYS:HA	4	0.14
(1,1997)	1:141:A:GLY:H	1:142:A:ARG:HA	13	0.14
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB2	14	0.14
(1,1993)	1:140:A:HIS:HB2	1:142:A:ARG:HB3	14	0.14
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB2	14	0.14
(1,1993)	1:140:A:HIS:HB3	1:142:A:ARG:HB3	14	0.14
(1,1991)	1:140:A:HIS:HD2	1:142:A:ARG:H	1	0.14
(1,1985)	1:140:A:HIS:H	1:141:A:GLY:H	15	0.14
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	1	0.14
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	1	0.14
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	6	0.14
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	6	0.14
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA2	18	0.14
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA3	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1942)	1:138:A:GLU:H	1:139:A:LEU:HA	3	0.14
(1,1931)	1:137:A:THR:HA	1:143:A:GLN:HA	6	0.14
(1,1931)	1:137:A:THR:HA	1:143:A:GLN:HA	9	0.14
(1,1931)	1:137:A:THR:HA	1:143:A:GLN:HA	17	0.14
(1,1919)	1:136:A:GLU:HG2	1:146:A:VAL:HB	4	0.14
(1,1919)	1:136:A:GLU:HG3	1:146:A:VAL:HB	4	0.14
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG2	16	0.14
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG3	16	0.14
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG2	16	0.14
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG3	16	0.14
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	6	0.14
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	6	0.14
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	3	0.14
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	3	0.14
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	3	0.14
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	3	0.14
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	14	0.14
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB2	18	0.14
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB3	18	0.14
(1,1894)	1:136:A:GLU:HA	1:138:A:GLU:H	2	0.14
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	5	0.14
(1,1837)	1:132:A:LEU:HB2	1:149:A:LYS:H	16	0.14
(1,1837)	1:132:A:LEU:HB3	1:149:A:LYS:H	16	0.14
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	4	0.14
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB2	4	0.14
(1,1827)	1:132:A:LEU:HD11	1:133:A:LEU:HB3	4	0.14
(1,1816)	1:132:A:LEU:HA	1:132:A:LEU:HB2	11	0.14
(1,1816)	1:132:A:LEU:HA	1:132:A:LEU:HB3	11	0.14
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	10	0.14
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	15	0.14
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB2	2	0.14
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB3	2	0.14
(1,1805)	1:131:A:ALA:HA	1:133:A:LEU:H	7	0.14
(1,1805)	1:131:A:ALA:HA	1:133:A:LEU:H	8	0.14
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	20	0.14
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	20	0.14
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	9	0.14
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	7	0.14
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	7	0.14
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG2	16	0.14
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG3	16	0.14
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	5	0.14
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	5	0.14
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	17	0.14
(1,1731)	1:128:A:VAL:HA	1:128:A:VAL:HG11	11	0.14
(1,1731)	1:128:A:VAL:HA	1:128:A:VAL:HG21	11	0.14
(1,1710)	1:126:A:ASP:HB2	1:127:A:ALA:HA	11	0.14
(1,1710)	1:126:A:ASP:HB3	1:127:A:ALA:HA	11	0.14
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	8	0.14
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	8	0.14
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	17	0.14
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	17	0.14
(1,1704)	1:126:A:ASP:HA	1:129:A:GLN:H	7	0.14
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB2	7	0.14
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB3	7	0.14
(1,1690)	1:125:A:ILE:HG21	1:129:A:GLN:H	5	0.14
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	9	0.14
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	13	0.14
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	3	0.14
(1,1658)	1:124:A:GLU:HB2	1:126:A:ASP:HA	11	0.14
(1,1658)	1:124:A:GLU:HB3	1:126:A:ASP:HA	11	0.14
(1,1616)	1:122:A:PHE:HA	1:122:A:PHE:HE1	20	0.14
(1,1613)	1:121:A:GLU:HB2	1:149:A:LYS:HB2	12	0.14
(1,1613)	1:121:A:GLU:HB2	1:149:A:LYS:HB3	12	0.14
(1,1613)	1:121:A:GLU:HB3	1:149:A:LYS:HB2	12	0.14
(1,1613)	1:121:A:GLU:HB3	1:149:A:LYS:HB3	12	0.14
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	4	0.14
(1,1552)	1:114:A:PRO:HG2	1:115:A:LYS:HA	10	0.14
(1,1552)	1:114:A:PRO:HG3	1:115:A:LYS:HA	10	0.14
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	5	0.14
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	5	0.14
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	5	0.14
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	5	0.14
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	11	0.14
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	11	0.14
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	11	0.14
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	11	0.14
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	17	0.14
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	17	0.14
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE2	20	0.14
(1,1495)	1:110:A:LYS:HA	1:115:A:LYS:HE3	20	0.14
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	8	0.14
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	12	0.14
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	12	0.14
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	5	0.14
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	5	0.14
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	9	0.14
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	9	0.14
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	18	0.14
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	18	0.14
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD2	7	0.14
(1,1452)	1:108:A:THR:HB	1:115:A:LYS:HD3	7	0.14
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	17	0.14
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	17	0.14
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	19	0.14
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	17	0.14
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	13	0.14
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	3	0.14
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	20	0.14
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	5	0.14
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	18	0.14
(1,1377)	1:105:A:THR:HB	1:119:A:TYR:H	4	0.14
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	3	0.14
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	20	0.14
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	7	0.14
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	18	0.14
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	6	0.14
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	7	0.14
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	9	0.14
(1,1351)	1:104:A:VAL:HA	1:120:A:VAL:HG11	19	0.14
(1,1349)	1:104:A:VAL:HA	1:105:A:THR:HB	20	0.14
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	7	0.14
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	18	0.14
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	16	0.14
(1,1325)	1:103:A:ARG:H	1:120:A:VAL:HA	20	0.14
(1,1316)	1:102:A:ASN:HB2	1:121:A:GLU:HA	8	0.14
(1,1316)	1:102:A:ASN:HB3	1:121:A:GLU:HA	8	0.14
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD2	5	0.14
(1,1315)	1:102:A:ASN:HB2	1:103:A:ARG:HD3	5	0.14
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD2	5	0.14
(1,1315)	1:102:A:ASN:HB3	1:103:A:ARG:HD3	5	0.14
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	3	0.14
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	3	0.14
(1,1285)	1:101:A:VAL:HB	1:120:A:VAL:HB	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1280)	1:101:A:VAL:HA	1:122:A:PHE:HE1	20	0.14
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	19	0.14
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	20	0.14
(1,1218)	1:96:A:GLN:HA	1:101:A:VAL:HB	1	0.14
(1,1217)	1:96:A:GLN:HA	1:101:A:VAL:H	2	0.14
(1,1215)	1:96:A:GLN:HA	1:100:A:THR:H	6	0.14
(1,1208)	1:96:A:GLN:H	1:101:A:VAL:HG11	10	0.14
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	7	0.14
(1,1201)	1:95:A:PHE:HE1	1:135:A:ASN:HA	13	0.14
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	4	0.14
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	4	0.14
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	5	0.14
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	5	0.14
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	17	0.14
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	17	0.14
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	16	0.14
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	20	0.14
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	20	0.14
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	13	0.14
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG2	3	0.14
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG3	3	0.14
(1,1120)	1:91:A:VAL:HA	1:93:A:GLN:H	13	0.14
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	5	0.14
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	11	0.14
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB2	10	0.14
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB3	10	0.14
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	1	0.14
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	9	0.14
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	2	0.14
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	2	0.14
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	3	0.14
(1,1081)	1:89:A:GLU:HG2	1:92:A:GLN:HG2	1	0.14
(1,1081)	1:89:A:GLU:HG2	1:92:A:GLN:HG3	1	0.14
(1,1081)	1:89:A:GLU:HG3	1:92:A:GLN:HG2	1	0.14
(1,1081)	1:89:A:GLU:HG3	1:92:A:GLN:HG3	1	0.14
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	2	0.14
(1,1069)	1:89:A:GLU:HA	1:91:A:VAL:H	10	0.14
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG2	8	0.14
(1,1066)	1:89:A:GLU:HA	1:89:A:GLU:HG3	8	0.14
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	15	0.14
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	5	0.14
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	8	0.14
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	9	0.14
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	14	0.14
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	17	0.14
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	19	0.14
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	20	0.14
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	20	0.14
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	1	0.14
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	1	0.14
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG2	16	0.14
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG3	16	0.14
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	3	0.14
(1,1040)	1:88:A:PRO:HA	1:118:A:ALA:HB3	4	0.14
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	3	0.14
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	3	0.14
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	9	0.14
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	9	0.14
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	10	0.14
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	10	0.14
(1,1027)	1:87:A:THR:H	1:90:A:GLU:H	2	0.14
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	4	0.14
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	4	0.14
(1,1009)	1:85:A:ALA:HA	1:86:A:CYS:H	3	0.14
(1,1009)	1:85:A:ALA:HA	1:86:A:CYS:H	10	0.14
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	7	0.14
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	7	0.14
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	7	0.14
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	7	0.14
(1,988)	1:84:A:TYR:HA	1:86:A:CYS:H	2	0.14
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	3	0.14
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	1	0.14
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	15	0.14
(1,977)	1:84:A:TYR:HA	1:115:A:LYS:HA	20	0.14
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	7	0.14
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	7	0.14
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA2	18	0.14
(1,945)	1:83:A:ASP:H	1:116:A:GLY:HA3	18	0.14
(1,928)	1:82:A:VAL:HB	1:116:A:GLY:H	6	0.14
(1,922)	1:82:A:VAL:HA	1:145:A:LYS:H	7	0.14
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	17	0.14
(1,918)	1:82:A:VAL:H	1:82:A:VAL:HG21	12	0.14
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	19	0.14
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	1	0.14
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	14	0.14
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	2	0.14
(1,912)	1:82:A:VAL:H	1:117:A:PHE:HA	13	0.14
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA2	1	0.14
(1,911)	1:82:A:VAL:H	1:116:A:GLY:HA3	1	0.14
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	20	0.14
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	20	0.14
(1,907)	1:81:A:ASN:HB2	1:145:A:LYS:H	8	0.14
(1,907)	1:81:A:ASN:HB3	1:145:A:LYS:H	8	0.14
(1,883)	1:80:A:GLY:HA2	1:145:A:LYS:H	16	0.14
(1,883)	1:80:A:GLY:HA3	1:145:A:LYS:H	16	0.14
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	4	0.14
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	5	0.14
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	13	0.14
(1,869)	1:80:A:GLY:H	1:145:A:LYS:HA	19	0.14
(1,865)	1:79:A:VAL:HG21	1:147:A:SER:H	6	0.14
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	2	0.14
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	20	0.14
(1,856)	1:79:A:VAL:HG11	1:146:A:VAL:HA	14	0.14
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	9	0.14
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	20	0.14
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	20	0.14
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	19	0.14
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	2	0.14
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	2	0.14
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	20	0.14
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	20	0.14
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	1	0.14
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	8	0.14
(1,841)	1:79:A:VAL:HA	1:82:A:VAL:HG21	12	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	4	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	4	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	8	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	8	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	9	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	9	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	13	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	13	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	19	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	20	0.14
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	20	0.14
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	17	0.14
(1,826)	1:79:A:VAL:H	1:119:A:TYR:H	2	0.14
(1,825)	1:79:A:VAL:H	1:118:A:ALA:HA	7	0.14
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	2	0.14
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	2	0.14
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	8	0.14
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	8	0.14
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB2	16	0.14
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB3	16	0.14
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	2	0.14
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	15	0.14
(1,788)	1:78:A:TYR:H	1:147:A:SER:H	20	0.14
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	1	0.14
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	16	0.14
(1,786)	1:78:A:TYR:H	1:146:A:VAL:HA	10	0.14
(1,786)	1:78:A:TYR:H	1:146:A:VAL:HA	16	0.14
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	4	0.14
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	13	0.14
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	16	0.14
(1,773)	1:77:A:ILE:HG21	1:148:A:ALA:HA	7	0.14
(1,763)	1:77:A:ILE:HD11	1:146:A:VAL:HG11	11	0.14
(1,763)	1:77:A:ILE:HD11	1:146:A:VAL:HG21	11	0.14
(1,758)	1:77:A:ILE:HB	1:79:A:VAL:H	11	0.14
(1,752)	1:77:A:ILE:HB	1:149:A:LYS:H	18	0.14
(1,751)	1:77:A:ILE:HB	1:148:A:ALA:HA	6	0.14
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	2	0.14
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	2	0.14
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	9	0.14
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	9	0.14
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	19	0.14
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	19	0.14
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	8	0.14
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	20	0.14
(1,725)	1:77:A:ILE:H	1:149:A:LYS:H	7	0.14
(1,725)	1:77:A:ILE:H	1:149:A:LYS:H	10	0.14
(1,720)	1:76:A:SER:HB2	1:149:A:LYS:HA	12	0.14
(1,720)	1:76:A:SER:HB3	1:149:A:LYS:HA	12	0.14
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	2	0.14
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	2	0.14
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	3	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	3	0.14
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	5	0.14
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	5	0.14
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	6	0.14
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	16	0.14
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	6	0.14
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	13	0.14
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	5	0.14
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	5	0.14
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	3	0.14
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	3	0.14
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	15	0.14
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	15	0.14
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	14	0.14
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	14	0.14
(1,669)	1:75:A:ARG:H	1:121:A:GLU:HA	20	0.14
(1,664)	1:74:A:SER:HA	1:75:A:ARG:HD2	20	0.14
(1,664)	1:74:A:SER:HA	1:75:A:ARG:HD3	20	0.14
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	19	0.14
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	1	0.14
(1,623)	1:72:A:VAL:HG11	1:123:A:VAL:H	17	0.14
(1,612)	1:72:A:VAL:HB	1:73:A:ASP:H	14	0.14
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	1	0.14
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	7	0.14
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	1	0.14
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	6	0.14
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	7	0.14
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	13	0.14
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	15	0.14
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	17	0.14
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	3	0.14
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	3	0.14
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	3	0.14
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	3	0.14
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	4	0.14
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	4	0.14
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	4	0.14
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	4	0.14
(1,558)	1:71:A:GLU:HA	1:74:A:SER:H	19	0.14
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	19	0.14
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	19	0.14
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	6	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	6	0.14
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	1	0.14
(1,527)	1:70:A:GLU:H	1:71:A:GLU:H	11	0.14
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	2	0.14
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	2	0.14
(1,501)	1:69:A:LYS:HB2	1:70:A:GLU:HG2	9	0.14
(1,501)	1:69:A:LYS:HB2	1:70:A:GLU:HG3	9	0.14
(1,501)	1:69:A:LYS:HB3	1:70:A:GLU:HG2	9	0.14
(1,501)	1:69:A:LYS:HB3	1:70:A:GLU:HG3	9	0.14
(1,499)	1:69:A:LYS:HB2	1:70:A:GLU:HA	1	0.14
(1,499)	1:69:A:LYS:HB3	1:70:A:GLU:HA	1	0.14
(1,498)	1:69:A:LYS:HB2	1:70:A:GLU:H	5	0.14
(1,498)	1:69:A:LYS:HB3	1:70:A:GLU:H	5	0.14
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	2	0.14
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	4	0.14
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	20	0.14
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	6	0.14
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	6	0.14
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	19	0.14
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	4	0.14
(1,458)	1:68:A:GLU:HA	1:70:A:GLU:H	12	0.14
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	6	0.14
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	6	0.14
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	9	0.14
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	9	0.14
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	16	0.14
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	16	0.14
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	9	0.14
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	17	0.14
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	17	0.14
(1,418)	1:66:A:GLN:H	1:66:A:GLN:HB2	6	0.14
(1,418)	1:66:A:GLN:H	1:66:A:GLN:HB3	6	0.14
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	10	0.14
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	19	0.14
(1,401)	1:65:A:THR:HA	1:68:A:GLU:H	11	0.14
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	2	0.14
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	7	0.14
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	10	0.14
(1,384)	1:64:A:ALA:HB3	1:65:A:THR:HA	1	0.14
(1,384)	1:64:A:ALA:HB3	1:65:A:THR:HA	12	0.14
(1,383)	1:64:A:ALA:HA	1:69:A:LYS:HB2	16	0.14
(1,383)	1:64:A:ALA:HA	1:69:A:LYS:HB3	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,380)	1:64:A:ALA:HA	1:68:A:GLU:HA	6	0.14
(1,378)	1:64:A:ALA:HA	1:67:A:ALA:HB3	8	0.14
(1,377)	1:64:A:ALA:HA	1:67:A:ALA:H	4	0.14
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	7	0.14
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	6	0.14
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	13	0.14
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	20	0.14
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	3	0.14
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	17	0.14
(1,334)	1:61:A:SER:H	1:62:A:THR:HA	15	0.14
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	3	0.14
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	5	0.14
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB2	6	0.14
(1,309)	1:58:A:ASP:H	1:61:A:SER:HB3	6	0.14
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	1	0.14
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	1	0.14
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	1	0.14
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	1	0.14
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG2	8	0.14
(1,297)	1:57:A:GLN:HA	1:57:A:GLN:HG3	8	0.14
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	19	0.14
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	19	0.14
(1,290)	1:56:A:VAL:HG21	1:58:A:ASP:H	12	0.14
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	13	0.14
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	13	0.14
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	6	0.14
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	20	0.14
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	5	0.14
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	5	0.14
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	6	0.14
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	7	0.14
(1,268)	1:56:A:VAL:HA	1:59:A:SER:HA	19	0.14
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG2	14	0.14
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG3	14	0.14
(1,261)	1:56:A:VAL:H	1:60:A:SER:H	10	0.14
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	12	0.14
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	13	0.14
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	20	0.14
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	6	0.14
(1,232)	1:54:A:GLY:H	1:56:A:VAL:H	4	0.14
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	18	0.14
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	16	0.14
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	19	0.14
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	19	0.14
(1,182)	1:50:A:GLU:HB2	1:51:A:LYS:H	20	0.14
(1,182)	1:50:A:GLU:HB3	1:51:A:LYS:H	20	0.14
(1,169)	1:50:A:GLU:H	1:50:A:GLU:HB2	8	0.14
(1,169)	1:50:A:GLU:H	1:50:A:GLU:HB3	8	0.14
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	12	0.14
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	13	0.14
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	14	0.14
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB2	19	0.14
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB3	19	0.14
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	17	0.14
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	19	0.14
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE2	5	0.14
(1,128)	1:48:A:LYS:HA	1:51:A:LYS:HE3	5	0.14
(1,103)	1:47:A:ALA:H	1:48:A:LYS:H	12	0.14
(1,94)	1:46:A:GLN:HB2	1:48:A:LYS:H	10	0.14
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB2	2	0.14
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB3	2	0.14
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	15	0.14
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	15	0.14
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	15	0.14
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	15	0.14
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	16	0.14
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	16	0.14
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	16	0.14
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	16	0.14
(1,66)	1:45:A:MET:HA	1:48:A:LYS:H	10	0.14
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	6	0.14
(1,55)	1:45:A:MET:H	1:45:A:MET:HG2	8	0.14
(1,55)	1:45:A:MET:H	1:45:A:MET:HG3	8	0.14
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG2	8	0.14
(1,47)	1:43:A:ARG:HB2	1:45:A:MET:HG3	8	0.14
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG2	8	0.14
(1,47)	1:43:A:ARG:HB3	1:45:A:MET:HG3	8	0.14
(1,41)	1:43:A:ARG:HA	1:45:A:MET:HG2	8	0.14
(1,41)	1:43:A:ARG:HA	1:45:A:MET:HG3	8	0.14
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	13	0.14
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	6	0.14
(1,14)	1:42:A:LEU:H	1:42:A:LEU:HD11	17	0.14
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2147)	1:152:A:ASN:HA	1:153:A:ILE:H	1	0.13
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	4	0.13
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	7	0.13
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	13	0.13
(1,2143)	1:151:A:THR:HB	1:152:A:ASN:H	6	0.13
(1,2142)	1:151:A:THR:HB	1:151:A:THR:HG21	19	0.13
(1,2125)	1:150:A:ARG:HA	1:151:A:THR:HB	4	0.13
(1,2122)	1:150:A:ARG:HA	1:150:A:ARG:HD2	8	0.13
(1,2122)	1:150:A:ARG:HA	1:150:A:ARG:HD3	8	0.13
(1,2118)	1:150:A:ARG:H	1:151:A:THR:HA	8	0.13
(1,2101)	1:149:A:LYS:HA	1:150:A:ARG:HA	12	0.13
(1,2100)	1:149:A:LYS:HA	1:150:A:ARG:H	8	0.13
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	13	0.13
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	13	0.13
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	1	0.13
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	1	0.13
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	16	0.13
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	16	0.13
(1,2078)	1:148:A:ALA:H	1:148:A:ALA:HA	12	0.13
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB2	16	0.13
(1,2073)	1:147:A:SER:H	1:147:A:SER:HB3	16	0.13
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	6	0.13
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	6	0.13
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	1	0.13
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	1	0.13
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	17	0.13
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	17	0.13
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	12	0.13
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	17	0.13
(1,2026)	1:144:A:LEU:H	1:145:A:LYS:HA	20	0.13
(1,1996)	1:141:A:GLY:H	1:142:A:ARG:H	11	0.13
(1,1990)	1:140:A:HIS:HA	1:142:A:ARG:H	16	0.13
(1,1978)	1:139:A:LEU:HG	1:144:A:LEU:HG	8	0.13
(1,1975)	1:139:A:LEU:HD21	1:140:A:HIS:H	12	0.13
(1,1973)	1:139:A:LEU:HD11	1:140:A:HIS:HA	3	0.13
(1,1965)	1:139:A:LEU:H	1:142:A:ARG:HA	10	0.13
(1,1952)	1:138:A:GLU:HA	1:144:A:LEU:H	17	0.13
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	19	0.13
(1,1927)	1:137:A:THR:HA	1:137:A:THR:HG21	10	0.13
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG2	4	0.13
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG3	4	0.13
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG2	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG3	4	0.13
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG2	10	0.13
(1,1918)	1:136:A:GLU:HG2	1:145:A:LYS:HG3	10	0.13
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG2	10	0.13
(1,1918)	1:136:A:GLU:HG3	1:145:A:LYS:HG3	10	0.13
(1,1909)	1:136:A:GLU:HB2	1:144:A:LEU:HD11	10	0.13
(1,1909)	1:136:A:GLU:HB3	1:144:A:LEU:HD11	10	0.13
(1,1908)	1:136:A:GLU:HB2	1:144:A:LEU:HA	3	0.13
(1,1908)	1:136:A:GLU:HB3	1:144:A:LEU:HA	3	0.13
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	14	0.13
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	14	0.13
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	1	0.13
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	1	0.13
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	1	0.13
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	1	0.13
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	6	0.13
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	6	0.13
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	6	0.13
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	6	0.13
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	1	0.13
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	20	0.13
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	13	0.13
(1,1830)	1:132:A:LEU:HB2	1:133:A:LEU:H	4	0.13
(1,1830)	1:132:A:LEU:HB3	1:133:A:LEU:H	4	0.13
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	15	0.13
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	15	0.13
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	19	0.13
(1,1809)	1:131:A:ALA:HB3	1:132:A:LEU:H	10	0.13
(1,1805)	1:131:A:ALA:HA	1:133:A:LEU:H	20	0.13
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	18	0.13
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	18	0.13
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	18	0.13
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	5	0.13
(1,1782)	1:130:A:ASN:H	1:133:A:LEU:H	3	0.13
(1,1780)	1:130:A:ASN:H	1:131:A:ALA:HA	11	0.13
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	10	0.13
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	16	0.13
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG2	5	0.13
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG3	5	0.13
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	8	0.13
(1,1760)	1:129:A:GLN:H	1:131:A:ALA:H	11	0.13
(1,1753)	1:128:A:VAL:HG21	1:149:A:LYS:H	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1747)	1:128:A:VAL:HG21	1:131:A:ALA:H	4	0.13
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	10	0.13
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	10	0.13
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	15	0.13
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	15	0.13
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	2	0.13
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	16	0.13
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	16	0.13
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	8	0.13
(1,1710)	1:126:A:ASP:HB2	1:127:A:ALA:HA	5	0.13
(1,1710)	1:126:A:ASP:HB3	1:127:A:ALA:HA	5	0.13
(1,1710)	1:126:A:ASP:HB2	1:127:A:ALA:HA	14	0.13
(1,1710)	1:126:A:ASP:HB3	1:127:A:ALA:HA	14	0.13
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	5	0.13
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	5	0.13
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	9	0.13
(1,1698)	1:126:A:ASP:H	1:129:A:GLN:H	11	0.13
(1,1698)	1:126:A:ASP:H	1:129:A:GLN:H	13	0.13
(1,1689)	1:125:A:ILE:HG21	1:128:A:VAL:HG11	2	0.13
(1,1682)	1:125:A:ILE:HB	1:126:A:ASP:HB2	4	0.13
(1,1682)	1:125:A:ILE:HB	1:126:A:ASP:HB3	4	0.13
(1,1674)	1:125:A:ILE:HA	1:128:A:VAL:H	10	0.13
(1,1644)	1:124:A:GLU:H	1:124:A:GLU:HG2	2	0.13
(1,1644)	1:124:A:GLU:H	1:124:A:GLU:HG3	2	0.13
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG2	7	0.13
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG3	7	0.13
(1,1634)	1:123:A:VAL:HA	1:123:A:VAL:HG21	10	0.13
(1,1628)	1:123:A:VAL:H	1:123:A:VAL:HG21	10	0.13
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	1	0.13
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	6	0.13
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	17	0.13
(1,1606)	1:120:A:VAL:HB	1:122:A:PHE:HB2	4	0.13
(1,1606)	1:120:A:VAL:HB	1:122:A:PHE:HB3	4	0.13
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	6	0.13
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	16	0.13
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	9	0.13
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	16	0.13
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	5	0.13
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	18	0.13
(1,1544)	1:113:A:GLN:HG2	1:114:A:PRO:HD2	7	0.13
(1,1544)	1:113:A:GLN:HG2	1:114:A:PRO:HD3	7	0.13
(1,1544)	1:113:A:GLN:HG3	1:114:A:PRO:HD2	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1544)	1:113:A:GLN:HG3	1:114:A:PRO:HD3	7	0.13
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	4	0.13
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	4	0.13
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	4	0.13
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	4	0.13
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	1	0.13
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	9	0.13
(1,1504)	1:110:A:LYS:HD2	1:115:A:LYS:HE2	15	0.13
(1,1504)	1:110:A:LYS:HD2	1:115:A:LYS:HE3	15	0.13
(1,1504)	1:110:A:LYS:HD3	1:115:A:LYS:HE2	15	0.13
(1,1504)	1:110:A:LYS:HD3	1:115:A:LYS:HE3	15	0.13
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG2	2	0.13
(1,1496)	1:110:A:LYS:HA	1:115:A:LYS:HG3	2	0.13
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	15	0.13
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	15	0.13
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	19	0.13
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	19	0.13
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	3	0.13
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	2	0.13
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	2	0.13
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	5	0.13
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	5	0.13
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG2	2	0.13
(1,1460)	1:108:A:THR:HG21	1:115:A:LYS:HG3	2	0.13
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	1	0.13
(1,1433)	1:107:A:LEU:HB2	1:107:A:LEU:HD11	1	0.13
(1,1433)	1:107:A:LEU:HB3	1:107:A:LEU:HD11	1	0.13
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	11	0.13
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	15	0.13
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	16	0.13
(1,1424)	1:107:A:LEU:H	1:118:A:ALA:HA	12	0.13
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	4	0.13
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	6	0.13
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	13	0.13
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	15	0.13
(1,1418)	1:106:A:ILE:HG12	1:118:A:ALA:HB3	11	0.13
(1,1418)	1:106:A:ILE:HG13	1:118:A:ALA:HB3	11	0.13
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	2	0.13
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	13	0.13
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	13	0.13
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	19	0.13
(1,1385)	1:106:A:ILE:H	1:106:A:ILE:HG21	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1360)	1:104:A:VAL:HG11	1:106:A:ILE:H	18	0.13
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	16	0.13
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	19	0.13
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	11	0.13
(1,1310)	1:102:A:ASN:HB2	1:122:A:PHE:HA	9	0.13
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	12	0.13
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	8	0.13
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	14	0.13
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	18	0.13
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	15	0.13
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	17	0.13
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG11	11	0.13
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG21	11	0.13
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG11	19	0.13
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG21	19	0.13
(1,1271)	1:101:A:VAL:H	1:101:A:VAL:HB	8	0.13
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	14	0.13
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	14	0.13
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	8	0.13
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	8	0.13
(1,1218)	1:96:A:GLN:HA	1:101:A:VAL:HB	13	0.13
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	2	0.13
(1,1205)	1:95:A:PHE:HE2	1:120:A:VAL:HG11	5	0.13
(1,1200)	1:95:A:PHE:HA	1:99:A:GLY:H	1	0.13
(1,1184)	1:94:A:HIS:HA	1:96:A:GLN:H	10	0.13
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	13	0.13
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	7	0.13
(1,1145)	1:92:A:GLN:HA	1:120:A:VAL:HB	17	0.13
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	14	0.13
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	14	0.13
(1,1122)	1:91:A:VAL:HA	1:94:A:HIS:H	9	0.13
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	8	0.13
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	8	0.13
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	13	0.13
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	16	0.13
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	6	0.13
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	9	0.13
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB2	9	0.13
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB3	9	0.13
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG2	6	0.13
(1,1091)	1:90:A:GLU:H	1:93:A:GLN:HG3	6	0.13
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1088)	1:90:A:GLU:H	1:92:A:GLN:H	20	0.13
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	5	0.13
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	15	0.13
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	4	0.13
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	9	0.13
(1,1072)	1:89:A:GLU:HA	1:92:A:GLN:HG2	12	0.13
(1,1072)	1:89:A:GLU:HA	1:92:A:GLN:HG3	12	0.13
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	8	0.13
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	4	0.13
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	13	0.13
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	14	0.13
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	14	0.13
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	14	0.13
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	14	0.13
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	4	0.13
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	4	0.13
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	4	0.13
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	4	0.13
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG2	6	0.13
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG3	6	0.13
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	5	0.13
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	5	0.13
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	19	0.13
(1,1034)	1:87:A:THR:HA	1:90:A:GLU:HG2	2	0.13
(1,1034)	1:87:A:THR:HA	1:90:A:GLU:HG3	2	0.13
(1,1009)	1:85:A:ALA:HA	1:86:A:CYS:H	11	0.13
(1,1009)	1:85:A:ALA:HA	1:86:A:CYS:H	17	0.13
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	1	0.13
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	1	0.13
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	17	0.13
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	17	0.13
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB2	19	0.13
(1,995)	1:84:A:TYR:HB2	1:114:A:PRO:HB3	19	0.13
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB2	19	0.13
(1,995)	1:84:A:TYR:HB3	1:114:A:PRO:HB3	19	0.13
(1,994)	1:84:A:TYR:HB2	1:114:A:PRO:HA	7	0.13
(1,994)	1:84:A:TYR:HB3	1:114:A:PRO:HA	7	0.13
(1,994)	1:84:A:TYR:HB2	1:114:A:PRO:HA	18	0.13
(1,994)	1:84:A:TYR:HB3	1:114:A:PRO:HA	18	0.13
(1,988)	1:84:A:TYR:HA	1:86:A:CYS:H	4	0.13
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA2	20	0.13
(1,983)	1:84:A:TYR:HA	1:116:A:GLY:HA3	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,982)	1:84:A:TYR:HA	1:116:A:GLY:H	8	0.13
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	1	0.13
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	1	0.13
(1,970)	1:84:A:TYR:H	1:84:A:TYR:HB2	11	0.13
(1,970)	1:84:A:TYR:H	1:84:A:TYR:HB3	11	0.13
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB2	6	0.13
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB3	6	0.13
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB2	6	0.13
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB3	6	0.13
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	8	0.13
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	8	0.13
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD2	13	0.13
(1,952)	1:83:A:ASP:HA	1:142:A:ARG:HD3	13	0.13
(1,950)	1:83:A:ASP:H	1:86:A:CYS:H	1	0.13
(1,928)	1:82:A:VAL:HB	1:116:A:GLY:H	7	0.13
(1,922)	1:82:A:VAL:HA	1:145:A:LYS:H	2	0.13
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA2	9	0.13
(1,919)	1:82:A:VAL:HA	1:116:A:GLY:HA3	9	0.13
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	6	0.13
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	10	0.13
(1,914)	1:82:A:VAL:H	1:144:A:LEU:HD21	12	0.13
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG2	11	0.13
(1,910)	1:82:A:VAL:H	1:114:A:PRO:HG3	11	0.13
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG2	18	0.13
(1,904)	1:81:A:ASN:HB2	1:114:A:PRO:HG3	18	0.13
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG2	18	0.13
(1,904)	1:81:A:ASN:HB3	1:114:A:PRO:HG3	18	0.13
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	8	0.13
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	1	0.13
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	1	0.13
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	8	0.13
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	8	0.13
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	8	0.13
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	8	0.13
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	18	0.13
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	18	0.13
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	18	0.13
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	18	0.13
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	2	0.13
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	3	0.13
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	19	0.13
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	7	0.13
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	20	0.13
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	13	0.13
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	16	0.13
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	18	0.13
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD11	5	0.13
(1,845)	1:79:A:VAL:HB	1:144:A:LEU:HD21	5	0.13
(1,836)	1:79:A:VAL:HA	1:147:A:SER:H	13	0.13
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG11	15	0.13
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG21	15	0.13
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	3	0.13
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	3	0.13
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD11	14	0.13
(1,832)	1:79:A:VAL:HA	1:144:A:LEU:HD21	14	0.13
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	16	0.13
(1,828)	1:79:A:VAL:H	1:146:A:VAL:HG11	20	0.13
(1,826)	1:79:A:VAL:H	1:119:A:TYR:H	14	0.13
(1,825)	1:79:A:VAL:H	1:118:A:ALA:HA	3	0.13
(1,817)	1:78:A:TYR:HB2	1:149:A:LYS:HB2	18	0.13
(1,817)	1:78:A:TYR:HB2	1:149:A:LYS:HB3	18	0.13
(1,817)	1:78:A:TYR:HB3	1:149:A:LYS:HB2	18	0.13
(1,817)	1:78:A:TYR:HB3	1:149:A:LYS:HB3	18	0.13
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	1	0.13
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	1	0.13
(1,814)	1:78:A:TYR:HB2	1:146:A:VAL:HG11	18	0.13
(1,814)	1:78:A:TYR:HB3	1:146:A:VAL:HG11	18	0.13
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	1	0.13
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	1	0.13
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	4	0.13
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	12	0.13
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	18	0.13
(1,788)	1:78:A:TYR:H	1:147:A:SER:H	18	0.13
(1,788)	1:78:A:TYR:H	1:147:A:SER:H	19	0.13
(1,787)	1:78:A:TYR:H	1:146:A:VAL:HG11	14	0.13
(1,773)	1:77:A:ILE:HG21	1:148:A:ALA:HA	3	0.13
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	1	0.13
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	17	0.13
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	7	0.13
(1,750)	1:77:A:ILE:HB	1:147:A:SER:HA	12	0.13
(1,748)	1:77:A:ILE:HB	1:146:A:VAL:HG11	11	0.13
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	8	0.13
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	19	0.13
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	6	0.13
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	6	0.13
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	9	0.13
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	9	0.13
(1,709)	1:76:A:SER:H	1:121:A:GLU:HA	14	0.13
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	3	0.13
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	3	0.13
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	9	0.13
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	9	0.13
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	16	0.13
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	16	0.13
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	3	0.13
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	3	0.13
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	3	0.13
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	3	0.13
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	5	0.13
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	5	0.13
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	5	0.13
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	5	0.13
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	17	0.13
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	17	0.13
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	17	0.13
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	17	0.13
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	4	0.13
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	4	0.13
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD2	14	0.13
(1,679)	1:75:A:ARG:HA	1:75:A:ARG:HD3	14	0.13
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	9	0.13
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	9	0.13
(1,659)	1:74:A:SER:HA	1:151:A:THR:HB	20	0.13
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	8	0.13
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	8	0.13
(1,625)	1:72:A:VAL:HG11	1:73:A:ASP:HA	16	0.13
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB2	9	0.13
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB3	9	0.13
(1,616)	1:72:A:VAL:HG11	1:102:A:ASN:HB2	1	0.13
(1,616)	1:72:A:VAL:HG11	1:102:A:ASN:HB3	1	0.13
(1,613)	1:72:A:VAL:HB	1:73:A:ASP:HA	8	0.13
(1,609)	1:72:A:VAL:HB	1:123:A:VAL:HA	18	0.13
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	4	0.13
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,590)	1:72:A:VAL:H	1:73:A:ASP:H	14	0.13
(1,588)	1:72:A:VAL:H	1:72:A:VAL:HB	12	0.13
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG12	14	0.13
(1,577)	1:71:A:GLU:HG2	1:125:A:ILE:HG13	14	0.13
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG12	14	0.13
(1,577)	1:71:A:GLU:HG3	1:125:A:ILE:HG13	14	0.13
(1,564)	1:71:A:GLU:HG2	1:72:A:VAL:H	14	0.13
(1,557)	1:71:A:GLU:HA	1:73:A:ASP:H	15	0.13
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	10	0.13
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	10	0.13
(1,545)	1:70:A:GLU:HB2	1:72:A:VAL:H	5	0.13
(1,545)	1:70:A:GLU:HB3	1:72:A:VAL:H	5	0.13
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	6	0.13
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	19	0.13
(1,519)	1:69:A:LYS:HG2	1:70:A:GLU:H	6	0.13
(1,519)	1:69:A:LYS:HG3	1:70:A:GLU:H	6	0.13
(1,517)	1:69:A:LYS:HE2	1:73:A:ASP:HB2	12	0.13
(1,517)	1:69:A:LYS:HE2	1:73:A:ASP:HB3	12	0.13
(1,517)	1:69:A:LYS:HE3	1:73:A:ASP:HB2	12	0.13
(1,517)	1:69:A:LYS:HE3	1:73:A:ASP:HB3	12	0.13
(1,513)	1:69:A:LYS:HD2	1:73:A:ASP:H	19	0.13
(1,513)	1:69:A:LYS:HD3	1:73:A:ASP:H	19	0.13
(1,512)	1:69:A:LYS:HD2	1:72:A:VAL:HG11	16	0.13
(1,512)	1:69:A:LYS:HD3	1:72:A:VAL:HG11	16	0.13
(1,512)	1:69:A:LYS:HD2	1:72:A:VAL:HG21	16	0.13
(1,512)	1:69:A:LYS:HD3	1:72:A:VAL:HG21	16	0.13
(1,511)	1:69:A:LYS:HD2	1:72:A:VAL:HB	16	0.13
(1,511)	1:69:A:LYS:HD3	1:72:A:VAL:HB	16	0.13
(1,510)	1:69:A:LYS:HD2	1:72:A:VAL:H	16	0.13
(1,510)	1:69:A:LYS:HD3	1:72:A:VAL:H	16	0.13
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	4	0.13
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	4	0.13
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	4	0.13
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	6	0.13
(1,462)	1:68:A:GLU:HA	1:72:A:VAL:H	13	0.13
(1,448)	1:67:A:ALA:HA	1:70:A:GLU:H	6	0.13
(1,448)	1:67:A:ALA:HA	1:70:A:GLU:H	13	0.13
(1,441)	1:67:A:ALA:H	1:69:A:LYS:H	10	0.13
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG2	20	0.13
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG3	20	0.13
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	9	0.13
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	14	0.13
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	6	0.13
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	14	0.13
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	15	0.13
(1,393)	1:65:A:THR:H	1:66:A:GLN:HB2	6	0.13
(1,393)	1:65:A:THR:H	1:66:A:GLN:HB3	6	0.13
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	2	0.13
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	9	0.13
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	14	0.13
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	4	0.13
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	5	0.13
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	7	0.13
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	8	0.13
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	9	0.13
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	15	0.13
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	16	0.13
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	17	0.13
(1,333)	1:60:A:SER:HB2	1:63:A:SER:HB2	12	0.13
(1,333)	1:60:A:SER:HB2	1:63:A:SER:HB3	12	0.13
(1,333)	1:60:A:SER:HB3	1:63:A:SER:HB2	12	0.13
(1,333)	1:60:A:SER:HB3	1:63:A:SER:HB3	12	0.13
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB2	2	0.13
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB3	2	0.13
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	4	0.13
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB2	16	0.13
(1,308)	1:58:A:ASP:H	1:59:A:SER:HB3	16	0.13
(1,307)	1:58:A:ASP:H	1:59:A:SER:HA	6	0.13
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB2	13	0.13
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB3	13	0.13
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB2	13	0.13
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB3	13	0.13
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	9	0.13
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	9	0.13
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	11	0.13
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	11	0.13
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	14	0.13
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	14	0.13
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	8	0.13
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	8	0.13
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG2	12	0.13
(1,289)	1:56:A:VAL:HG21	1:57:A:GLN:HG3	12	0.13
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	4	0.13
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	7	0.13
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	9	0.13
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	9	0.13
(1,275)	1:56:A:VAL:HB	1:57:A:GLN:H	20	0.13
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB2	17	0.13
(1,273)	1:56:A:VAL:HA	1:61:A:SER:HB3	17	0.13
(1,260)	1:56:A:VAL:H	1:59:A:SER:H	7	0.13
(1,258)	1:56:A:VAL:H	1:57:A:GLN:HB2	18	0.13
(1,258)	1:56:A:VAL:H	1:57:A:GLN:HB3	18	0.13
(1,248)	1:55:A:ALA:HB3	1:56:A:VAL:H	4	0.13
(1,248)	1:55:A:ALA:HB3	1:56:A:VAL:H	6	0.13
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB2	6	0.13
(1,243)	1:55:A:ALA:HA	1:57:A:GLN:HB3	6	0.13
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	19	0.13
(1,236)	1:55:A:ALA:H	1:56:A:VAL:HG21	15	0.13
(1,225)	1:53:A:MET:HA	1:56:A:VAL:H	8	0.13
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	7	0.13
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	7	0.13
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	11	0.13
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	11	0.13
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	13	0.13
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	13	0.13
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	7	0.13
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	7	0.13
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB2	7	0.13
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB3	7	0.13
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB2	7	0.13
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB3	7	0.13
(1,182)	1:50:A:GLU:HB2	1:51:A:LYS:H	14	0.13
(1,182)	1:50:A:GLU:HB3	1:51:A:LYS:H	14	0.13
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG2	5	0.13
(1,181)	1:50:A:GLU:HA	1:53:A:MET:HG3	5	0.13
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG2	5	0.13
(1,177)	1:50:A:GLU:HA	1:50:A:GLU:HG3	5	0.13
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE2	15	0.13
(1,173)	1:50:A:GLU:H	1:51:A:LYS:HE3	15	0.13
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB2	18	0.13
(1,165)	1:49:A:VAL:HG21	1:52:A:GLU:HB3	18	0.13
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	8	0.13
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	15	0.13
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	19	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD2	9	0.13
(1,122)	1:48:A:LYS:HA	1:48:A:LYS:HD3	9	0.13
(1,115)	1:47:A:ALA:HB3	1:49:A:VAL:H	10	0.13
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	6	0.13
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	12	0.13
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	6	0.13
(1,94)	1:46:A:GLN:HB2	1:48:A:LYS:H	16	0.13
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	9	0.13
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB2	14	0.13
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB3	14	0.13
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB2	15	0.13
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB3	15	0.13
(1,79)	1:45:A:MET:HG2	1:48:A:LYS:HB2	11	0.13
(1,79)	1:45:A:MET:HG2	1:48:A:LYS:HB3	11	0.13
(1,79)	1:45:A:MET:HG3	1:48:A:LYS:HB2	11	0.13
(1,79)	1:45:A:MET:HG3	1:48:A:LYS:HB3	11	0.13
(1,54)	1:45:A:MET:H	1:45:A:MET:HB2	12	0.13
(1,54)	1:45:A:MET:H	1:45:A:MET:HB3	12	0.13
(1,54)	1:45:A:MET:H	1:45:A:MET:HB2	20	0.13
(1,54)	1:45:A:MET:H	1:45:A:MET:HB3	20	0.13
(1,51)	1:43:A:ARG:HG2	1:45:A:MET:HA	20	0.13
(1,51)	1:43:A:ARG:HG3	1:45:A:MET:HA	20	0.13
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	7	0.13
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	7	0.13
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	7	0.13
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	7	0.13
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD2	20	0.13
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD3	20	0.13
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	2	0.13
(1,25)	1:42:A:LEU:HG	1:43:A:ARG:H	19	0.13
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	1	0.13
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	6	0.13
(1,2)	1:41:A:ALA:H	1:42:A:LEU:HA	10	0.13
(1,2157)	1:153:A:ILE:HA	1:153:A:ILE:HG21	2	0.12
(1,2153)	1:153:A:ILE:H	1:153:A:ILE:HG21	1	0.12
(1,2152)	1:153:A:ILE:H	1:153:A:ILE:HB	10	0.12
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	13	0.12
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	18	0.12
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	10	0.12
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	16	0.12
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	17	0.12
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB2	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2137)	1:151:A:THR:H	1:152:A:ASN:HB3	7	0.12
(1,2125)	1:150:A:ARG:HA	1:151:A:THR:HB	3	0.12
(1,2111)	1:149:A:LYS:HG2	1:149:A:LYS:HE2	6	0.12
(1,2111)	1:149:A:LYS:HG2	1:149:A:LYS:HE3	6	0.12
(1,2111)	1:149:A:LYS:HG3	1:149:A:LYS:HE2	6	0.12
(1,2111)	1:149:A:LYS:HG3	1:149:A:LYS:HE3	6	0.12
(1,2111)	1:149:A:LYS:HG2	1:149:A:LYS:HE2	10	0.12
(1,2111)	1:149:A:LYS:HG2	1:149:A:LYS:HE3	10	0.12
(1,2111)	1:149:A:LYS:HG3	1:149:A:LYS:HE2	10	0.12
(1,2111)	1:149:A:LYS:HG3	1:149:A:LYS:HE3	10	0.12
(1,2110)	1:149:A:LYS:HE2	1:151:A:THR:HG21	9	0.12
(1,2110)	1:149:A:LYS:HE3	1:151:A:THR:HG21	9	0.12
(1,2101)	1:149:A:LYS:HA	1:150:A:ARG:HA	8	0.12
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	2	0.12
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	2	0.12
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	20	0.12
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	20	0.12
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	20	0.12
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	20	0.12
(1,2078)	1:148:A:ALA:H	1:148:A:ALA:HA	11	0.12
(1,2070)	1:146:A:VAL:HB	1:147:A:SER:H	11	0.12
(1,2069)	1:146:A:VAL:HB	1:146:A:VAL:HG21	9	0.12
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	1	0.12
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	1	0.12
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	18	0.12
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	18	0.12
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	3	0.12
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	3	0.12
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	13	0.12
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	13	0.12
(1,2063)	1:146:A:VAL:H	1:146:A:VAL:HB	6	0.12
(1,2045)	1:144:A:LEU:HB2	1:146:A:VAL:H	15	0.12
(1,2045)	1:144:A:LEU:HB3	1:146:A:VAL:H	15	0.12
(1,2036)	1:144:A:LEU:HD11	1:146:A:VAL:HB	7	0.12
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	13	0.12
(1,2026)	1:144:A:LEU:H	1:145:A:LYS:HA	6	0.12
(1,2006)	1:142:A:ARG:HA	1:143:A:GLN:HA	2	0.12
(1,2005)	1:142:A:ARG:HA	1:143:A:GLN:H	13	0.12
(1,1990)	1:140:A:HIS:HA	1:142:A:ARG:H	15	0.12
(1,1971)	1:139:A:LEU:HA	1:141:A:GLY:H	7	0.12
(1,1961)	1:139:A:LEU:H	1:139:A:LEU:HG	10	0.12
(1,1951)	1:138:A:GLU:HA	1:143:A:GLN:HA	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	7	0.12
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	9	0.12
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	13	0.12
(1,1943)	1:138:A:GLU:H	1:143:A:GLN:HA	9	0.12
(1,1931)	1:137:A:THR:HA	1:143:A:GLN:HA	16	0.12
(1,1925)	1:137:A:THR:H	1:139:A:LEU:H	15	0.12
(1,1922)	1:137:A:THR:H	1:137:A:THR:HB	1	0.12
(1,1919)	1:136:A:GLU:HG2	1:146:A:VAL:HB	5	0.12
(1,1919)	1:136:A:GLU:HG3	1:146:A:VAL:HB	5	0.12
(1,1919)	1:136:A:GLU:HG2	1:146:A:VAL:HB	6	0.12
(1,1919)	1:136:A:GLU:HG3	1:146:A:VAL:HB	6	0.12
(1,1917)	1:136:A:GLU:HG2	1:144:A:LEU:HD11	12	0.12
(1,1917)	1:136:A:GLU:HG3	1:144:A:LEU:HD11	12	0.12
(1,1908)	1:136:A:GLU:HB2	1:144:A:LEU:HA	11	0.12
(1,1908)	1:136:A:GLU:HB3	1:144:A:LEU:HA	11	0.12
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	3	0.12
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	3	0.12
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	5	0.12
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	5	0.12
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	5	0.12
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	5	0.12
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB2	9	0.12
(1,1906)	1:136:A:GLU:HB2	1:143:A:GLN:HB3	9	0.12
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB2	9	0.12
(1,1906)	1:136:A:GLU:HB3	1:143:A:GLN:HB3	9	0.12
(1,1905)	1:136:A:GLU:HB2	1:143:A:GLN:HA	15	0.12
(1,1905)	1:136:A:GLU:HB3	1:143:A:GLN:HA	15	0.12
(1,1899)	1:136:A:GLU:HA	1:144:A:LEU:HB2	12	0.12
(1,1899)	1:136:A:GLU:HA	1:144:A:LEU:HB3	12	0.12
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	5	0.12
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	13	0.12
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	17	0.12
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	3	0.12
(1,1893)	1:136:A:GLU:HA	1:137:A:THR:HB	2	0.12
(1,1885)	1:136:A:GLU:H	1:137:A:THR:H	5	0.12
(1,1881)	1:135:A:ASN:HB2	1:146:A:VAL:HB	15	0.12
(1,1881)	1:135:A:ASN:HB3	1:146:A:VAL:HB	15	0.12
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	2	0.12
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	2	0.12
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	13	0.12
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	13	0.12
(1,1879)	1:135:A:ASN:HB2	1:136:A:GLU:HG2	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1879)	1:135:A:ASN:HB2	1:136:A:GLU:HG3	18	0.12
(1,1879)	1:135:A:ASN:HB3	1:136:A:GLU:HG2	18	0.12
(1,1879)	1:135:A:ASN:HB3	1:136:A:GLU:HG3	18	0.12
(1,1830)	1:132:A:LEU:HB2	1:133:A:LEU:H	3	0.12
(1,1830)	1:132:A:LEU:HB3	1:133:A:LEU:H	3	0.12
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	2	0.12
(1,1824)	1:132:A:LEU:HD11	1:133:A:LEU:H	9	0.12
(1,1819)	1:132:A:LEU:HA	1:134:A:LEU:H	1	0.12
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	13	0.12
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	20	0.12
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB2	18	0.12
(1,1807)	1:131:A:ALA:HA	1:134:A:LEU:HB3	18	0.12
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	19	0.12
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	20	0.12
(1,1781)	1:130:A:ASN:H	1:131:A:ALA:HB3	1	0.12
(1,1779)	1:130:A:ASN:H	1:131:A:ALA:H	11	0.12
(1,1774)	1:129:A:GLN:HG2	1:132:A:LEU:HD11	17	0.12
(1,1774)	1:129:A:GLN:HG3	1:132:A:LEU:HD11	17	0.12
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	1	0.12
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	1	0.12
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	8	0.12
(1,1740)	1:128:A:VAL:HG11	1:129:A:GLN:HA	14	0.12
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	1	0.12
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	5	0.12
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	6	0.12
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	8	0.12
(1,1733)	1:128:A:VAL:HA	1:130:A:ASN:H	9	0.12
(1,1731)	1:128:A:VAL:HA	1:128:A:VAL:HG11	12	0.12
(1,1731)	1:128:A:VAL:HA	1:128:A:VAL:HG21	12	0.12
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	10	0.12
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	6	0.12
(1,1721)	1:127:A:ALA:HA	1:131:A:ALA:HB3	10	0.12
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB2	17	0.12
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB3	17	0.12
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	12	0.12
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	20	0.12
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	15	0.12
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	15	0.12
(1,1704)	1:126:A:ASP:HA	1:129:A:GLN:H	3	0.12
(1,1704)	1:126:A:ASP:HA	1:129:A:GLN:H	18	0.12
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	17	0.12
(1,1677)	1:125:A:ILE:HA	1:129:A:GLN:HB2	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1677)	1:125:A:ILE:HA	1:129:A:GLN:HB3	11	0.12
(1,1676)	1:125:A:ILE:HA	1:129:A:GLN:H	12	0.12
(1,1675)	1:125:A:ILE:HA	1:128:A:VAL:HG11	1	0.12
(1,1675)	1:125:A:ILE:HA	1:128:A:VAL:HG11	13	0.12
(1,1658)	1:124:A:GLU:HB2	1:126:A:ASP:HA	10	0.12
(1,1658)	1:124:A:GLU:HB3	1:126:A:ASP:HA	10	0.12
(1,1653)	1:124:A:GLU:HA	1:126:A:ASP:H	12	0.12
(1,1647)	1:124:A:GLU:HA	1:124:A:GLU:HG2	13	0.12
(1,1647)	1:124:A:GLU:HA	1:124:A:GLU:HG3	13	0.12
(1,1643)	1:124:A:GLU:H	1:124:A:GLU:HB2	13	0.12
(1,1643)	1:124:A:GLU:H	1:124:A:GLU:HB3	13	0.12
(1,1639)	1:123:A:VAL:HB	1:124:A:GLU:H	1	0.12
(1,1639)	1:123:A:VAL:HB	1:124:A:GLU:H	10	0.12
(1,1639)	1:123:A:VAL:HB	1:124:A:GLU:H	17	0.12
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG2	7	0.12
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG3	7	0.12
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	2	0.12
(1,1620)	1:122:A:PHE:HE1	1:123:A:VAL:H	11	0.12
(1,1620)	1:122:A:PHE:HE2	1:123:A:VAL:H	11	0.12
(1,1613)	1:121:A:GLU:HB2	1:149:A:LYS:HB2	7	0.12
(1,1613)	1:121:A:GLU:HB2	1:149:A:LYS:HB3	7	0.12
(1,1613)	1:121:A:GLU:HB3	1:149:A:LYS:HB2	7	0.12
(1,1613)	1:121:A:GLU:HB3	1:149:A:LYS:HB3	7	0.12
(1,1607)	1:120:A:VAL:HG11	1:121:A:GLU:H	12	0.12
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE2	13	0.12
(1,1596)	1:119:A:TYR:HB2	1:149:A:LYS:HE3	13	0.12
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE2	13	0.12
(1,1596)	1:119:A:TYR:HB3	1:149:A:LYS:HE3	13	0.12
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	7	0.12
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	18	0.12
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	19	0.12
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	8	0.12
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	9	0.12
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	13	0.12
(1,1510)	1:111:A:PHE:H	1:113:A:GLN:HB2	5	0.12
(1,1510)	1:111:A:PHE:H	1:113:A:GLN:HB3	5	0.12
(1,1485)	1:109:A:ASP:HB2	1:117:A:PHE:H	8	0.12
(1,1485)	1:109:A:ASP:HB3	1:117:A:PHE:H	8	0.12
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	4	0.12
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	5	0.12
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	18	0.12
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	7	0.12
(1,1465)	1:109:A:ASP:H	1:115:A:LYS:H	2	0.12
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	14	0.12
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	14	0.12
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB2	9	0.12
(1,1458)	1:108:A:THR:HG21	1:115:A:LYS:HB3	9	0.12
(1,1433)	1:107:A:LEU:HB2	1:107:A:LEU:HD11	2	0.12
(1,1433)	1:107:A:LEU:HB3	1:107:A:LEU:HD11	2	0.12
(1,1432)	1:107:A:LEU:HG	1:109:A:ASP:HA	17	0.12
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	1	0.12
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	2	0.12
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	3	0.12
(1,1398)	1:106:A:ILE:HA	1:118:A:ALA:HB3	9	0.12
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	14	0.12
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	1	0.12
(1,1382)	1:106:A:ILE:H	1:106:A:ILE:HB	5	0.12
(1,1377)	1:105:A:THR:HB	1:119:A:TYR:H	20	0.12
(1,1368)	1:105:A:THR:H	1:119:A:TYR:H	7	0.12
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	1	0.12
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	4	0.12
(1,1363)	1:104:A:VAL:HG21	1:119:A:TYR:H	11	0.12
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	2	0.12
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	15	0.12
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	6	0.12
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	6	0.12
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	8	0.12
(1,1309)	1:102:A:ASN:HA	1:122:A:PHE:HA	1	0.12
(1,1299)	1:101:A:VAL:HG21	1:120:A:VAL:HB	9	0.12
(1,1290)	1:101:A:VAL:HG21	1:102:A:ASN:H	10	0.12
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	2	0.12
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	6	0.12
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	12	0.12
(1,1281)	1:101:A:VAL:HA	1:122:A:PHE:HB2	18	0.12
(1,1281)	1:101:A:VAL:HA	1:122:A:PHE:HB3	18	0.12
(1,1279)	1:101:A:VAL:HA	1:122:A:PHE:HA	2	0.12
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	6	0.12
(1,1271)	1:101:A:VAL:H	1:101:A:VAL:HB	17	0.12
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	4	0.12
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	4	0.12
(1,1254)	1:99:A:GLY:H	1:131:A:ALA:H	14	0.12
(1,1253)	1:99:A:GLY:H	1:130:A:ASN:HB2	10	0.12
(1,1253)	1:99:A:GLY:H	1:130:A:ASN:HB3	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	6	0.12
(1,1252)	1:99:A:GLY:H	1:127:A:ALA:HA	9	0.12
(1,1240)	1:98:A:CYS:H	1:98:A:CYS:HB2	15	0.12
(1,1240)	1:98:A:CYS:H	1:98:A:CYS:HB3	15	0.12
(1,1226)	1:96:A:GLN:HB2	1:101:A:VAL:HB	18	0.12
(1,1226)	1:96:A:GLN:HB3	1:101:A:VAL:HB	18	0.12
(1,1215)	1:96:A:GLN:HA	1:100:A:THR:H	13	0.12
(1,1207)	1:96:A:GLN:H	1:101:A:VAL:HB	5	0.12
(1,1203)	1:95:A:PHE:HE1	1:138:A:GLU:H	2	0.12
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	3	0.12
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	3	0.12
(1,1196)	1:95:A:PHE:HA	1:97:A:SER:H	9	0.12
(1,1191)	1:95:A:PHE:HA	1:131:A:ALA:HA	10	0.12
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	3	0.12
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	5	0.12
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	7	0.12
(1,1148)	1:92:A:GLN:HA	1:93:A:GLN:H	11	0.12
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	15	0.12
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	3	0.12
(1,1140)	1:92:A:GLN:H	1:94:A:HIS:H	6	0.12
(1,1137)	1:92:A:GLN:H	1:93:A:GLN:H	19	0.12
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	4	0.12
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	4	0.12
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	16	0.12
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	17	0.12
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	15	0.12
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	8	0.12
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB2	17	0.12
(1,1100)	1:90:A:GLU:HA	1:94:A:HIS:HB3	17	0.12
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	5	0.12
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	10	0.12
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	11	0.12
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	5	0.12
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	14	0.12
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	19	0.12
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	20	0.12
(1,1069)	1:89:A:GLU:HA	1:91:A:VAL:H	5	0.12
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	5	0.12
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	18	0.12
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	10	0.12
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	20	0.12
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG2	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1059)	1:88:A:PRO:HB2	1:92:A:GLN:HG3	19	0.12
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG2	19	0.12
(1,1059)	1:88:A:PRO:HB3	1:92:A:GLN:HG3	19	0.12
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	8	0.12
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	8	0.12
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	8	0.12
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	8	0.12
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	6	0.12
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	6	0.12
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	15	0.12
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	15	0.12
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	19	0.12
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	19	0.12
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG2	8	0.12
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG3	8	0.12
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	9	0.12
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	9	0.12
(1,1025)	1:86:A:CYS:HB2	1:91:A:VAL:HG21	17	0.12
(1,1025)	1:86:A:CYS:HB3	1:91:A:VAL:HG21	17	0.12
(1,1018)	1:86:A:CYS:HA	1:90:A:GLU:HG2	1	0.12
(1,1018)	1:86:A:CYS:HA	1:90:A:GLU:HG3	1	0.12
(1,1013)	1:86:A:CYS:H	1:116:A:GLY:HA2	12	0.12
(1,1013)	1:86:A:CYS:H	1:116:A:GLY:HA3	12	0.12
(1,1001)	1:84:A:TYR:HB2	1:85:A:ALA:H	20	0.12
(1,1001)	1:84:A:TYR:HB3	1:85:A:ALA:H	20	0.12
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE2	15	0.12
(1,980)	1:84:A:TYR:HA	1:115:A:LYS:HE3	15	0.12
(1,966)	1:83:A:ASP:HB2	1:86:A:CYS:H	13	0.12
(1,966)	1:83:A:ASP:HB3	1:86:A:CYS:H	13	0.12
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	13	0.12
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	13	0.12
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA2	2	0.12
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA3	2	0.12
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA2	2	0.12
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA3	2	0.12
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB2	1	0.12
(1,951)	1:83:A:ASP:HA	1:140:A:HIS:HB3	1	0.12
(1,929)	1:82:A:VAL:HB	1:116:A:GLY:HA2	12	0.12
(1,929)	1:82:A:VAL:HB	1:116:A:GLY:HA3	12	0.12
(1,928)	1:82:A:VAL:HB	1:116:A:GLY:H	18	0.12
(1,928)	1:82:A:VAL:HB	1:116:A:GLY:H	20	0.12
(1,920)	1:82:A:VAL:HA	1:144:A:LEU:H	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,917)	1:82:A:VAL:H	1:82:A:VAL:HB	10	0.12
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	7	0.12
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB2	16	0.12
(1,884)	1:80:A:GLY:HA2	1:145:A:LYS:HB3	16	0.12
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB2	16	0.12
(1,884)	1:80:A:GLY:HA3	1:145:A:LYS:HB3	16	0.12
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	5	0.12
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	9	0.12
(1,868)	1:80:A:GLY:H	1:145:A:LYS:H	12	0.12
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	3	0.12
(1,856)	1:79:A:VAL:HG11	1:146:A:VAL:HA	13	0.12
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	2	0.12
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	18	0.12
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	19	0.12
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	16	0.12
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	18	0.12
(1,824)	1:79:A:VAL:H	1:118:A:ALA:H	7	0.12
(1,816)	1:78:A:TYR:HB2	1:149:A:LYS:HA	13	0.12
(1,816)	1:78:A:TYR:HB3	1:149:A:LYS:HA	13	0.12
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	19	0.12
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	19	0.12
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB2	13	0.12
(1,800)	1:78:A:TYR:HA	1:149:A:LYS:HB3	13	0.12
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	6	0.12
(1,789)	1:78:A:TYR:H	1:148:A:ALA:H	10	0.12
(1,774)	1:77:A:ILE:HG21	1:149:A:LYS:H	8	0.12
(1,773)	1:77:A:ILE:HG21	1:148:A:ALA:HA	1	0.12
(1,769)	1:77:A:ILE:HG21	1:131:A:ALA:HB3	9	0.12
(1,767)	1:77:A:ILE:HG21	1:131:A:ALA:H	4	0.12
(1,750)	1:77:A:ILE:HB	1:147:A:SER:HA	18	0.12
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	18	0.12
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	5	0.12
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	5	0.12
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	20	0.12
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	20	0.12
(1,716)	1:76:A:SER:HA	1:122:A:PHE:H	9	0.12
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	12	0.12
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	12	0.12
(1,693)	1:75:A:ARG:HB2	1:128:A:VAL:HB	19	0.12
(1,693)	1:75:A:ARG:HB3	1:128:A:VAL:HB	19	0.12
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	19	0.12
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	19	0.12
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	19	0.12
(1,691)	1:75:A:ARG:HB2	1:125:A:ILE:HA	8	0.12
(1,691)	1:75:A:ARG:HB3	1:125:A:ILE:HA	8	0.12
(1,688)	1:75:A:ARG:HB2	1:122:A:PHE:H	5	0.12
(1,688)	1:75:A:ARG:HB3	1:122:A:PHE:H	5	0.12
(1,686)	1:75:A:ARG:HB2	1:121:A:GLU:HA	19	0.12
(1,686)	1:75:A:ARG:HB3	1:121:A:GLU:HA	19	0.12
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	4	0.12
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	4	0.12
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	20	0.12
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	20	0.12
(1,645)	1:73:A:ASP:HB2	1:149:A:LYS:HE2	6	0.12
(1,645)	1:73:A:ASP:HB2	1:149:A:LYS:HE3	6	0.12
(1,645)	1:73:A:ASP:HB3	1:149:A:LYS:HE2	6	0.12
(1,645)	1:73:A:ASP:HB3	1:149:A:LYS:HE3	6	0.12
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD2	19	0.12
(1,638)	1:73:A:ASP:HA	1:149:A:LYS:HD3	19	0.12
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	9	0.12
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	4	0.12
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB2	2	0.12
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB3	2	0.12
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB2	19	0.12
(1,617)	1:72:A:VAL:HG11	1:103:A:ARG:HB3	19	0.12
(1,612)	1:72:A:VAL:HB	1:73:A:ASP:H	5	0.12
(1,607)	1:72:A:VAL:HA	1:75:A:ARG:HA	17	0.12
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	5	0.12
(1,602)	1:72:A:VAL:HA	1:123:A:VAL:HG21	10	0.12
(1,595)	1:72:A:VAL:H	1:75:A:ARG:H	3	0.12
(1,595)	1:72:A:VAL:H	1:75:A:ARG:H	5	0.12
(1,595)	1:72:A:VAL:H	1:75:A:ARG:H	19	0.12
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	20	0.12
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	20	0.12
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	5	0.12
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	9	0.12
(1,588)	1:72:A:VAL:H	1:72:A:VAL:HB	16	0.12
(1,581)	1:71:A:GLU:HG2	1:75:A:ARG:H	10	0.12
(1,581)	1:71:A:GLU:HG3	1:75:A:ARG:H	10	0.12
(1,569)	1:71:A:GLU:HB2	1:123:A:VAL:HA	16	0.12
(1,569)	1:71:A:GLU:HB3	1:123:A:VAL:HA	16	0.12
(1,560)	1:71:A:GLU:HA	1:75:A:ARG:H	19	0.12
(1,557)	1:71:A:GLU:HA	1:73:A:ASP:H	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,557)	1:71:A:GLU:HA	1:73:A:ASP:H	17	0.12
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	4	0.12
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	4	0.12
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	7	0.12
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	7	0.12
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	9	0.12
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	9	0.12
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	16	0.12
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	16	0.12
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	3	0.12
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	3	0.12
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	13	0.12
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	13	0.12
(1,537)	1:70:A:GLU:HA	1:73:A:ASP:H	18	0.12
(1,536)	1:70:A:GLU:HA	1:72:A:VAL:H	1	0.12
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	5	0.12
(1,519)	1:69:A:LYS:HG2	1:70:A:GLU:H	3	0.12
(1,519)	1:69:A:LYS:HG3	1:70:A:GLU:H	3	0.12
(1,514)	1:69:A:LYS:HD2	1:73:A:ASP:HA	20	0.12
(1,514)	1:69:A:LYS:HD3	1:73:A:ASP:HA	20	0.12
(1,512)	1:69:A:LYS:HD2	1:72:A:VAL:HG11	3	0.12
(1,512)	1:69:A:LYS:HD3	1:72:A:VAL:HG11	3	0.12
(1,512)	1:69:A:LYS:HD2	1:72:A:VAL:HG21	3	0.12
(1,512)	1:69:A:LYS:HD3	1:72:A:VAL:HG21	3	0.12
(1,506)	1:69:A:LYS:HB2	1:73:A:ASP:H	11	0.12
(1,506)	1:69:A:LYS:HB3	1:73:A:ASP:H	11	0.12
(1,501)	1:69:A:LYS:HB2	1:70:A:GLU:HG2	19	0.12
(1,501)	1:69:A:LYS:HB2	1:70:A:GLU:HG3	19	0.12
(1,501)	1:69:A:LYS:HB3	1:70:A:GLU:HG2	19	0.12
(1,501)	1:69:A:LYS:HB3	1:70:A:GLU:HG3	19	0.12
(1,499)	1:69:A:LYS:HB2	1:70:A:GLU:HA	17	0.12
(1,499)	1:69:A:LYS:HB3	1:70:A:GLU:HA	17	0.12
(1,489)	1:69:A:LYS:HA	1:72:A:VAL:H	11	0.12
(1,476)	1:68:A:GLU:HG2	1:72:A:VAL:HG21	20	0.12
(1,476)	1:68:A:GLU:HG3	1:72:A:VAL:HG21	20	0.12
(1,474)	1:68:A:GLU:HG2	1:69:A:LYS:HA	10	0.12
(1,474)	1:68:A:GLU:HG3	1:69:A:LYS:HA	10	0.12
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	5	0.12
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	5	0.12
(1,469)	1:68:A:GLU:HB2	1:72:A:VAL:HB	8	0.12
(1,469)	1:68:A:GLU:HB3	1:72:A:VAL:HB	8	0.12
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	6	0.12
(1,451)	1:67:A:ALA:HB3	1:68:A:GLU:H	16	0.12
(1,441)	1:67:A:ALA:H	1:69:A:LYS:H	11	0.12
(1,435)	1:66:A:GLN:HG2	1:67:A:ALA:HB3	15	0.12
(1,435)	1:66:A:GLN:HG3	1:67:A:ALA:HB3	15	0.12
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG2	19	0.12
(1,431)	1:66:A:GLN:HA	1:70:A:GLU:HG3	19	0.12
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG2	5	0.12
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG3	5	0.12
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG2	14	0.12
(1,429)	1:66:A:GLN:HA	1:69:A:LYS:HG3	14	0.12
(1,410)	1:65:A:THR:HB	1:66:A:GLN:HB2	11	0.12
(1,410)	1:65:A:THR:HB	1:66:A:GLN:HB3	11	0.12
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	15	0.12
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	17	0.12
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	20	0.12
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	18	0.12
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB2	5	0.12
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB3	5	0.12
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB2	18	0.12
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB3	18	0.12
(1,401)	1:65:A:THR:HA	1:68:A:GLU:H	12	0.12
(1,396)	1:65:A:THR:HA	1:65:A:THR:HG21	19	0.12
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	15	0.12
(1,377)	1:64:A:ALA:HA	1:67:A:ALA:H	10	0.12
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	1	0.12
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	3	0.12
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	14	0.12
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	18	0.12
(1,345)	1:62:A:THR:HA	1:64:A:ALA:H	10	0.12
(1,312)	1:58:A:ASP:HB2	1:59:A:SER:HA	13	0.12
(1,312)	1:58:A:ASP:HB3	1:59:A:SER:HA	13	0.12
(1,311)	1:58:A:ASP:HA	1:59:A:SER:HA	9	0.12
(1,311)	1:58:A:ASP:HA	1:59:A:SER:HA	20	0.12
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	10	0.12
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	10	0.12
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	17	0.12
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	17	0.12
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB2	16	0.12
(1,283)	1:56:A:VAL:HB	1:61:A:SER:HB3	16	0.12
(1,282)	1:56:A:VAL:HB	1:61:A:SER:HA	9	0.12
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB2	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,281)	1:56:A:VAL:HB	1:60:A:SER:HB3	13	0.12
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	18	0.12
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG2	5	0.12
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG3	5	0.12
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG2	11	0.12
(1,266)	1:56:A:VAL:HA	1:57:A:GLN:HG3	11	0.12
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	13	0.12
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE2	18	0.12
(1,196)	1:51:A:LYS:HA	1:51:A:LYS:HE3	18	0.12
(1,182)	1:50:A:GLU:HB2	1:51:A:LYS:H	13	0.12
(1,182)	1:50:A:GLU:HB3	1:51:A:LYS:H	13	0.12
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG2	10	0.12
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG3	10	0.12
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB2	9	0.12
(1,174)	1:50:A:GLU:H	1:52:A:GLU:HB3	9	0.12
(1,111)	1:47:A:ALA:HA	1:49:A:VAL:HG11	3	0.12
(1,103)	1:47:A:ALA:H	1:48:A:LYS:H	8	0.12
(1,103)	1:47:A:ALA:H	1:48:A:LYS:H	14	0.12
(1,102)	1:47:A:ALA:H	1:47:A:ALA:HB3	16	0.12
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	4	0.12
(1,91)	1:46:A:GLN:HA	1:49:A:VAL:H	8	0.12
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	12	0.12
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	15	0.12
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	1	0.12
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	1	0.12
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	1	0.12
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	1	0.12
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	3	0.12
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	3	0.12
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	9	0.12
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	9	0.12
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG2	17	0.12
(1,48)	1:43:A:ARG:HB2	1:46:A:GLN:HG3	17	0.12
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG2	17	0.12
(1,48)	1:43:A:ARG:HB3	1:46:A:GLN:HG3	17	0.12
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB2	7	0.12
(1,40)	1:43:A:ARG:HA	1:45:A:MET:HB3	7	0.12
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD2	11	0.12
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD3	11	0.12
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD2	18	0.12
(1,37)	1:43:A:ARG:HA	1:43:A:ARG:HD3	18	0.12
(1,27)	1:42:A:LEU:HG	1:43:A:ARG:HB2	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,27)	1:42:A:LEU:HG	1:43:A:ARG:HB3	18	0.12
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	4	0.12
(1,11)	1:41:A:ALA:HB3	1:42:A:LEU:HA	4	0.12
(1,9)	1:41:A:ALA:HA	1:43:A:ARG:H	19	0.12
(1,3)	1:41:A:ALA:H	1:43:A:ARG:HB2	6	0.12
(1,3)	1:41:A:ALA:H	1:43:A:ARG:HB3	6	0.12
(1,2161)	1:153:A:ILE:HB	1:153:A:ILE:HG21	2	0.11
(1,2153)	1:153:A:ILE:H	1:153:A:ILE:HG21	8	0.11
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	1	0.11
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	6	0.11
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	15	0.11
(1,2151)	1:153:A:ILE:H	1:153:A:ILE:HA	20	0.11
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG12	3	0.11
(1,2149)	1:152:A:ASN:HA	1:153:A:ILE:HG13	3	0.11
(1,2148)	1:152:A:ASN:HA	1:153:A:ILE:HA	10	0.11
(1,2145)	1:152:A:ASN:H	1:153:A:ILE:HA	11	0.11
(1,2142)	1:151:A:THR:HB	1:151:A:THR:HG21	2	0.11
(1,2125)	1:150:A:ARG:HA	1:151:A:THR:HB	9	0.11
(1,2109)	1:149:A:LYS:HE2	1:151:A:THR:HB	7	0.11
(1,2109)	1:149:A:LYS:HE3	1:151:A:THR:HB	7	0.11
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	6	0.11
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	6	0.11
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	7	0.11
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	7	0.11
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	14	0.11
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	14	0.11
(1,2078)	1:148:A:ALA:H	1:148:A:ALA:HA	10	0.11
(1,2071)	1:146:A:VAL:HB	1:147:A:SER:HA	11	0.11
(1,2071)	1:146:A:VAL:HB	1:147:A:SER:HA	18	0.11
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	3	0.11
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	3	0.11
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	7	0.11
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	7	0.11
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	8	0.11
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	8	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	2	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	2	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	5	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	5	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	8	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	8	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	14	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG11	18	0.11
(1,2064)	1:146:A:VAL:H	1:146:A:VAL:HG21	18	0.11
(1,2063)	1:146:A:VAL:H	1:146:A:VAL:HB	14	0.11
(1,2036)	1:144:A:LEU:HD11	1:146:A:VAL:HB	18	0.11
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	14	0.11
(1,2026)	1:144:A:LEU:H	1:145:A:LYS:HA	16	0.11
(1,1988)	1:140:A:HIS:HA	1:141:A:GLY:H	18	0.11
(1,1988)	1:140:A:HIS:HA	1:141:A:GLY:H	20	0.11
(1,1986)	1:140:A:HIS:HA	1:140:A:HIS:HE1	11	0.11
(1,1985)	1:140:A:HIS:H	1:141:A:GLY:H	2	0.11
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB2	20	0.11
(1,1974)	1:139:A:LEU:HD11	1:140:A:HIS:HB3	20	0.11
(1,1965)	1:139:A:LEU:H	1:142:A:ARG:HA	15	0.11
(1,1964)	1:139:A:LEU:H	1:142:A:ARG:H	8	0.11
(1,1960)	1:139:A:LEU:H	1:139:A:LEU:HD11	20	0.11
(1,1950)	1:138:A:GLU:HA	1:143:A:GLN:H	10	0.11
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	11	0.11
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	15	0.11
(1,1949)	1:138:A:GLU:HA	1:142:A:ARG:HA	20	0.11
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA2	10	0.11
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA3	10	0.11
(1,1942)	1:138:A:GLU:H	1:139:A:LEU:HA	2	0.11
(1,1942)	1:138:A:GLU:H	1:139:A:LEU:HA	7	0.11
(1,1942)	1:138:A:GLU:H	1:139:A:LEU:HA	10	0.11
(1,1935)	1:137:A:THR:HB	1:138:A:GLU:HA	15	0.11
(1,1907)	1:136:A:GLU:HB2	1:144:A:LEU:H	15	0.11
(1,1907)	1:136:A:GLU:HB3	1:144:A:LEU:H	15	0.11
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	2	0.11
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	7	0.11
(1,1896)	1:136:A:GLU:HA	1:143:A:GLN:HA	19	0.11
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB2	14	0.11
(1,1895)	1:136:A:GLU:HA	1:139:A:LEU:HB3	14	0.11
(1,1880)	1:135:A:ASN:HB2	1:144:A:LEU:HD11	10	0.11
(1,1880)	1:135:A:ASN:HB3	1:144:A:LEU:HD11	10	0.11
(1,1858)	1:134:A:LEU:H	1:135:A:ASN:H	18	0.11
(1,1847)	1:133:A:LEU:HD11	1:134:A:LEU:H	13	0.11
(1,1846)	1:133:A:LEU:HA	1:134:A:LEU:HG	11	0.11
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	2	0.11
(1,1825)	1:132:A:LEU:HD11	1:133:A:LEU:HA	17	0.11
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	8	0.11
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1805)	1:131:A:ALA:HA	1:133:A:LEU:H	16	0.11
(1,1802)	1:131:A:ALA:H	1:133:A:LEU:H	2	0.11
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	2	0.11
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	8	0.11
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	13	0.11
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	14	0.11
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	19	0.11
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	19	0.11
(1,1791)	1:130:A:ASN:HA	1:133:A:LEU:HB2	14	0.11
(1,1791)	1:130:A:ASN:HA	1:133:A:LEU:HB3	14	0.11
(1,1789)	1:130:A:ASN:HA	1:133:A:LEU:HA	14	0.11
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	17	0.11
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	9	0.11
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	14	0.11
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG2	8	0.11
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG3	8	0.11
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	1	0.11
(1,1761)	1:129:A:GLN:H	1:131:A:ALA:HB3	6	0.11
(1,1744)	1:128:A:VAL:HG11	1:132:A:LEU:H	3	0.11
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	14	0.11
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	14	0.11
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB2	16	0.11
(1,1741)	1:128:A:VAL:HG11	1:129:A:GLN:HB3	16	0.11
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	2	0.11
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	2	0.11
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB2	7	0.11
(1,1737)	1:128:A:VAL:HA	1:132:A:LEU:HB3	7	0.11
(1,1734)	1:128:A:VAL:HA	1:131:A:ALA:H	12	0.11
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	7	0.11
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB2	11	0.11
(1,1720)	1:127:A:ALA:HA	1:130:A:ASN:HB3	11	0.11
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	4	0.11
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	7	0.11
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	14	0.11
(1,1719)	1:127:A:ALA:HA	1:130:A:ASN:H	17	0.11
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	4	0.11
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	4	0.11
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	12	0.11
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	12	0.11
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	8	0.11
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	13	0.11
(1,1705)	1:126:A:ASP:HA	1:129:A:GLN:HA	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB2	2	0.11
(1,1692)	1:125:A:ILE:HG21	1:129:A:GLN:HB3	2	0.11
(1,1688)	1:125:A:ILE:HG21	1:126:A:ASP:HA	2	0.11
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB2	15	0.11
(1,1683)	1:125:A:ILE:HB	1:129:A:GLN:HB3	15	0.11
(1,1681)	1:125:A:ILE:HB	1:126:A:ASP:HA	10	0.11
(1,1677)	1:125:A:ILE:HA	1:129:A:GLN:HB2	7	0.11
(1,1677)	1:125:A:ILE:HA	1:129:A:GLN:HB3	7	0.11
(1,1674)	1:125:A:ILE:HA	1:128:A:VAL:H	12	0.11
(1,1659)	1:124:A:GLU:HB2	1:127:A:ALA:HB3	3	0.11
(1,1659)	1:124:A:GLU:HB3	1:127:A:ALA:HB3	3	0.11
(1,1640)	1:123:A:VAL:HB	1:124:A:GLU:HA	13	0.11
(1,1639)	1:123:A:VAL:HB	1:124:A:GLU:H	15	0.11
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG2	8	0.11
(1,1637)	1:123:A:VAL:HA	1:124:A:GLU:HG3	8	0.11
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG2	6	0.11
(1,1632)	1:123:A:VAL:H	1:124:A:GLU:HG3	6	0.11
(1,1621)	1:122:A:PHE:HE2	1:124:A:GLU:HA	12	0.11
(1,1616)	1:122:A:PHE:HA	1:122:A:PHE:HE1	8	0.11
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	14	0.11
(1,1599)	1:120:A:VAL:H	1:120:A:VAL:HG11	15	0.11
(1,1594)	1:119:A:TYR:HA	1:120:A:VAL:HG11	8	0.11
(1,1583)	1:117:A:PHE:HB2	1:118:A:ALA:H	7	0.11
(1,1583)	1:117:A:PHE:HB3	1:118:A:ALA:H	7	0.11
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB2	5	0.11
(1,1564)	1:115:A:LYS:HA	1:117:A:PHE:HB3	5	0.11
(1,1552)	1:114:A:PRO:HG2	1:115:A:LYS:HA	5	0.11
(1,1552)	1:114:A:PRO:HG3	1:115:A:LYS:HA	5	0.11
(1,1544)	1:113:A:GLN:HG2	1:114:A:PRO:HD2	5	0.11
(1,1544)	1:113:A:GLN:HG2	1:114:A:PRO:HD3	5	0.11
(1,1544)	1:113:A:GLN:HG3	1:114:A:PRO:HD2	5	0.11
(1,1544)	1:113:A:GLN:HG3	1:114:A:PRO:HD3	5	0.11
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	14	0.11
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	14	0.11
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	14	0.11
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	14	0.11
(1,1516)	1:111:A:PHE:HA	1:113:A:GLN:H	6	0.11
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB2	16	0.11
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB3	16	0.11
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB2	16	0.11
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB3	16	0.11
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	15	0.11
(1,1493)	1:110:A:LYS:HA	1:112:A:GLY:H	20	0.11
(1,1485)	1:109:A:ASP:HB2	1:117:A:PHE:H	3	0.11
(1,1485)	1:109:A:ASP:HB3	1:117:A:PHE:H	3	0.11
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	1	0.11
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	1	0.11
(1,1475)	1:109:A:ASP:HA	1:115:A:LYS:HG2	7	0.11
(1,1475)	1:109:A:ASP:HA	1:115:A:LYS:HG3	7	0.11
(1,1474)	1:109:A:ASP:HA	1:115:A:LYS:HA	14	0.11
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	14	0.11
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	14	0.11
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB2	4	0.11
(1,1464)	1:109:A:ASP:H	1:113:A:GLN:HB3	4	0.11
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD2	15	0.11
(1,1451)	1:108:A:THR:HB	1:110:A:LYS:HD3	15	0.11
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	2	0.11
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	9	0.11
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	18	0.11
(1,1450)	1:108:A:THR:HB	1:109:A:ASP:HA	20	0.11
(1,1449)	1:108:A:THR:HB	1:109:A:ASP:H	1	0.11
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	2	0.11
(1,1424)	1:107:A:LEU:H	1:118:A:ALA:HA	2	0.11
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	7	0.11
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	9	0.11
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	19	0.11
(1,1416)	1:106:A:ILE:HG12	1:117:A:PHE:HB2	5	0.11
(1,1416)	1:106:A:ILE:HG12	1:117:A:PHE:HB3	5	0.11
(1,1416)	1:106:A:ILE:HG13	1:117:A:PHE:HB2	5	0.11
(1,1416)	1:106:A:ILE:HG13	1:117:A:PHE:HB3	5	0.11
(1,1401)	1:106:A:ILE:HB	1:106:A:ILE:HG21	14	0.11
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	3	0.11
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	15	0.11
(1,1387)	1:106:A:ILE:H	1:118:A:ALA:HB3	15	0.11
(1,1367)	1:105:A:THR:H	1:105:A:THR:HG21	7	0.11
(1,1366)	1:105:A:THR:H	1:105:A:THR:HB	10	0.11
(1,1357)	1:104:A:VAL:HB	1:120:A:VAL:HG11	17	0.11
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	5	0.11
(1,1355)	1:104:A:VAL:HB	1:120:A:VAL:HA	19	0.11
(1,1339)	1:103:A:ARG:HB2	1:122:A:PHE:HA	5	0.11
(1,1339)	1:103:A:ARG:HB3	1:122:A:PHE:HA	5	0.11
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	14	0.11
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	9	0.11
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	13	0.11
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	1	0.11
(1,1323)	1:103:A:ARG:H	1:103:A:ARG:HB2	6	0.11
(1,1323)	1:103:A:ARG:H	1:103:A:ARG:HB3	6	0.11
(1,1323)	1:103:A:ARG:H	1:103:A:ARG:HB2	14	0.11
(1,1323)	1:103:A:ARG:H	1:103:A:ARG:HB3	14	0.11
(1,1305)	1:102:A:ASN:H	1:121:A:GLU:H	11	0.11
(1,1285)	1:101:A:VAL:HB	1:120:A:VAL:HB	6	0.11
(1,1279)	1:101:A:VAL:HA	1:122:A:PHE:HA	19	0.11
(1,1279)	1:101:A:VAL:HA	1:122:A:PHE:HA	20	0.11
(1,1278)	1:101:A:VAL:HA	1:120:A:VAL:HB	4	0.11
(1,1277)	1:101:A:VAL:HA	1:103:A:ARG:H	10	0.11
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG11	3	0.11
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG21	3	0.11
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG11	6	0.11
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG21	6	0.11
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG11	20	0.11
(1,1274)	1:101:A:VAL:HA	1:101:A:VAL:HG21	20	0.11
(1,1271)	1:101:A:VAL:H	1:101:A:VAL:HB	10	0.11
(1,1269)	1:100:A:THR:HA	1:101:A:VAL:HB	8	0.11
(1,1260)	1:99:A:GLY:HA2	1:128:A:VAL:HA	5	0.11
(1,1260)	1:99:A:GLY:HA3	1:128:A:VAL:HA	5	0.11
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	3	0.11
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	3	0.11
(1,1258)	1:99:A:GLY:HA2	1:127:A:ALA:HB3	9	0.11
(1,1258)	1:99:A:GLY:HA3	1:127:A:ALA:HB3	9	0.11
(1,1240)	1:98:A:CYS:H	1:98:A:CYS:HB2	4	0.11
(1,1240)	1:98:A:CYS:H	1:98:A:CYS:HB3	4	0.11
(1,1236)	1:97:A:SER:HA	1:98:A:CYS:HA	9	0.11
(1,1216)	1:96:A:GLN:HA	1:100:A:THR:HA	2	0.11
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	13	0.11
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	13	0.11
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	18	0.11
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	18	0.11
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB2	20	0.11
(1,1197)	1:95:A:PHE:HA	1:97:A:SER:HB3	20	0.11
(1,1191)	1:95:A:PHE:HA	1:131:A:ALA:HA	13	0.11
(1,1182)	1:94:A:HIS:HA	1:139:A:LEU:HD21	12	0.11
(1,1164)	1:93:A:GLN:H	1:96:A:GLN:H	10	0.11
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	4	0.11
(1,1148)	1:92:A:GLN:HA	1:93:A:GLN:H	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1146)	1:92:A:GLN:HA	1:120:A:VAL:HG11	8	0.11
(1,1146)	1:92:A:GLN:HA	1:120:A:VAL:HG11	18	0.11
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG2	18	0.11
(1,1139)	1:92:A:GLN:H	1:93:A:GLN:HG3	18	0.11
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG2	1	0.11
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG3	1	0.11
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	13	0.11
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	13	0.11
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB2	19	0.11
(1,1115)	1:91:A:VAL:H	1:94:A:HIS:HB3	19	0.11
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	14	0.11
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	17	0.11
(1,1113)	1:91:A:VAL:H	1:92:A:GLN:HA	20	0.11
(1,1112)	1:91:A:VAL:H	1:92:A:GLN:H	4	0.11
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	6	0.11
(1,1096)	1:90:A:GLU:HA	1:93:A:GLN:H	16	0.11
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	6	0.11
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	10	0.11
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	6	0.11
(1,1069)	1:89:A:GLU:HA	1:91:A:VAL:H	9	0.11
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	18	0.11
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	9	0.11
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	19	0.11
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	2	0.11
(1,1063)	1:89:A:GLU:H	1:90:A:GLU:HA	12	0.11
(1,1054)	1:88:A:PRO:HB2	1:118:A:ALA:HB3	13	0.11
(1,1054)	1:88:A:PRO:HB3	1:118:A:ALA:HB3	13	0.11
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG12	19	0.11
(1,1053)	1:88:A:PRO:HB2	1:106:A:ILE:HG13	19	0.11
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG12	19	0.11
(1,1053)	1:88:A:PRO:HB3	1:106:A:ILE:HG13	19	0.11
(1,1044)	1:88:A:PRO:HA	1:91:A:VAL:H	13	0.11
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG11	4	0.11
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG21	4	0.11
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG11	12	0.11
(1,1036)	1:88:A:PRO:HA	1:104:A:VAL:HG21	12	0.11
(1,1034)	1:87:A:THR:HA	1:90:A:GLU:HG2	1	0.11
(1,1034)	1:87:A:THR:HA	1:90:A:GLU:HG3	1	0.11
(1,1033)	1:87:A:THR:HA	1:89:A:GLU:H	17	0.11
(1,1019)	1:86:A:CYS:HB2	1:106:A:ILE:HD11	18	0.11
(1,1019)	1:86:A:CYS:HB3	1:106:A:ILE:HD11	18	0.11
(1,1001)	1:84:A:TYR:HB2	1:85:A:ALA:H	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1001)	1:84:A:TYR:HB3	1:85:A:ALA:H	15	0.11
(1,973)	1:84:A:TYR:HA	1:108:A:THR:HG21	12	0.11
(1,970)	1:84:A:TYR:H	1:84:A:TYR:HB2	7	0.11
(1,970)	1:84:A:TYR:H	1:84:A:TYR:HB3	7	0.11
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB2	10	0.11
(1,967)	1:83:A:ASP:HB2	1:86:A:CYS:HB3	10	0.11
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB2	10	0.11
(1,967)	1:83:A:ASP:HB3	1:86:A:CYS:HB3	10	0.11
(1,966)	1:83:A:ASP:HB2	1:86:A:CYS:H	1	0.11
(1,966)	1:83:A:ASP:HB3	1:86:A:CYS:H	1	0.11
(1,965)	1:83:A:ASP:HB2	1:85:A:ALA:H	1	0.11
(1,965)	1:83:A:ASP:HB3	1:85:A:ALA:H	1	0.11
(1,943)	1:82:A:VAL:HG21	1:83:A:ASP:H	12	0.11
(1,922)	1:82:A:VAL:HA	1:145:A:LYS:H	1	0.11
(1,902)	1:81:A:ASN:HB3	1:144:A:LEU:HA	4	0.11
(1,900)	1:81:A:ASN:HB2	1:144:A:LEU:HA	5	0.11
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	16	0.11
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	16	0.11
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	1	0.11
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	7	0.11
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	15	0.11
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	16	0.11
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	17	0.11
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	2	0.11
(1,871)	1:80:A:GLY:H	1:146:A:VAL:HA	19	0.11
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	1	0.11
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	5	0.11
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	10	0.11
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	14	0.11
(1,856)	1:79:A:VAL:HG11	1:146:A:VAL:HA	17	0.11
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	1	0.11
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	20	0.11
(1,848)	1:79:A:VAL:HB	1:82:A:VAL:HG21	15	0.11
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	5	0.11
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	16	0.11
(1,843)	1:79:A:VAL:HB	1:118:A:ALA:HA	19	0.11
(1,834)	1:79:A:VAL:HA	1:145:A:LYS:HB2	9	0.11
(1,834)	1:79:A:VAL:HA	1:145:A:LYS:HB3	9	0.11
(1,813)	1:78:A:TYR:HB2	1:146:A:VAL:HA	5	0.11
(1,813)	1:78:A:TYR:HB3	1:146:A:VAL:HA	5	0.11
(1,799)	1:78:A:TYR:HA	1:147:A:SER:H	17	0.11
(1,796)	1:78:A:TYR:H	1:79:A:VAL:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,790)	1:78:A:TYR:H	1:149:A:LYS:H	4	0.11
(1,789)	1:78:A:TYR:H	1:148:A:ALA:H	8	0.11
(1,788)	1:78:A:TYR:H	1:147:A:SER:H	9	0.11
(1,786)	1:78:A:TYR:H	1:146:A:VAL:HA	5	0.11
(1,786)	1:78:A:TYR:H	1:146:A:VAL:HA	20	0.11
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	2	0.11
(1,771)	1:77:A:ILE:HG21	1:132:A:LEU:HA	18	0.11
(1,759)	1:77:A:ILE:HB	1:79:A:VAL:HG21	17	0.11
(1,751)	1:77:A:ILE:HB	1:148:A:ALA:HA	1	0.11
(1,749)	1:77:A:ILE:HB	1:147:A:SER:H	20	0.11
(1,748)	1:77:A:ILE:HB	1:146:A:VAL:HG11	10	0.11
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG2	13	0.11
(1,738)	1:77:A:ILE:HA	1:149:A:LYS:HG3	13	0.11
(1,736)	1:77:A:ILE:HA	1:149:A:LYS:HA	9	0.11
(1,730)	1:77:A:ILE:H	1:78:A:TYR:HA	12	0.11
(1,720)	1:76:A:SER:HB2	1:149:A:LYS:HA	4	0.11
(1,720)	1:76:A:SER:HB3	1:149:A:LYS:HA	4	0.11
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	5	0.11
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	5	0.11
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	13	0.11
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	13	0.11
(1,716)	1:76:A:SER:HA	1:122:A:PHE:H	20	0.11
(1,711)	1:76:A:SER:H	1:122:A:PHE:H	14	0.11
(1,686)	1:75:A:ARG:HB2	1:121:A:GLU:HA	2	0.11
(1,686)	1:75:A:ARG:HB3	1:121:A:GLU:HA	2	0.11
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB2	8	0.11
(1,670)	1:75:A:ARG:H	1:121:A:GLU:HB3	8	0.11
(1,669)	1:75:A:ARG:H	1:121:A:GLU:HA	7	0.11
(1,630)	1:72:A:VAL:HG21	1:123:A:VAL:HA	8	0.11
(1,624)	1:72:A:VAL:HG11	1:123:A:VAL:HA	19	0.11
(1,623)	1:72:A:VAL:HG11	1:123:A:VAL:H	20	0.11
(1,609)	1:72:A:VAL:HB	1:123:A:VAL:HA	17	0.11
(1,600)	1:72:A:VAL:HA	1:123:A:VAL:H	16	0.11
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	13	0.11
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	13	0.11
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	14	0.11
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	14	0.11
(1,591)	1:72:A:VAL:H	1:73:A:ASP:HA	8	0.11
(1,588)	1:72:A:VAL:H	1:72:A:VAL:HB	18	0.11
(1,558)	1:71:A:GLU:HA	1:74:A:SER:H	9	0.11
(1,558)	1:71:A:GLU:HA	1:74:A:SER:H	16	0.11
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	8	0.11
(1,546)	1:70:A:GLU:HG2	1:71:A:GLU:H	19	0.11
(1,546)	1:70:A:GLU:HG3	1:71:A:GLU:H	19	0.11
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	8	0.11
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	8	0.11
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	9	0.11
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	9	0.11
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	17	0.11
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	17	0.11
(1,537)	1:70:A:GLU:HA	1:73:A:ASP:H	19	0.11
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	3	0.11
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	8	0.11
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	18	0.11
(1,522)	1:69:A:LYS:HG2	1:73:A:ASP:HA	1	0.11
(1,522)	1:69:A:LYS:HG3	1:73:A:ASP:HA	1	0.11
(1,520)	1:69:A:LYS:HG2	1:70:A:GLU:HA	6	0.11
(1,520)	1:69:A:LYS:HG3	1:70:A:GLU:HA	6	0.11
(1,519)	1:69:A:LYS:HG2	1:70:A:GLU:H	9	0.11
(1,519)	1:69:A:LYS:HG3	1:70:A:GLU:H	9	0.11
(1,516)	1:69:A:LYS:HE2	1:73:A:ASP:HA	8	0.11
(1,516)	1:69:A:LYS:HE3	1:73:A:ASP:HA	8	0.11
(1,498)	1:69:A:LYS:HB2	1:70:A:GLU:H	3	0.11
(1,498)	1:69:A:LYS:HB3	1:70:A:GLU:H	3	0.11
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	7	0.11
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	13	0.11
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	17	0.11
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	10	0.11
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB2	5	0.11
(1,454)	1:68:A:GLU:H	1:70:A:GLU:HB3	5	0.11
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG2	20	0.11
(1,450)	1:67:A:ALA:HA	1:70:A:GLU:HG3	20	0.11
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB2	14	0.11
(1,449)	1:67:A:ALA:HA	1:70:A:GLU:HB3	14	0.11
(1,419)	1:66:A:GLN:H	1:67:A:ALA:HB3	7	0.11
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE2	8	0.11
(1,416)	1:65:A:THR:HG21	1:69:A:LYS:HE3	8	0.11
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	6	0.11
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	6	0.11
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	7	0.11
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	7	0.11
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	18	0.11
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD2	20	0.11
(1,412)	1:65:A:THR:HB	1:69:A:LYS:HD3	20	0.11
(1,409)	1:65:A:THR:HB	1:66:A:GLN:H	18	0.11
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	8	0.11
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	8	0.11
(1,404)	1:65:A:THR:HA	1:69:A:LYS:HA	17	0.11
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	9	0.11
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	3	0.11
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	6	0.11
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	9	0.11
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG2	4	0.11
(1,388)	1:64:A:ALA:HB3	1:68:A:GLU:HG3	4	0.11
(1,384)	1:64:A:ALA:HB3	1:65:A:THR:HA	4	0.11
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	13	0.11
(1,363)	1:63:A:SER:HA	1:65:A:THR:HB	19	0.11
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	8	0.11
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	17	0.11
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	20	0.11
(1,359)	1:63:A:SER:H	1:64:A:ALA:HA	5	0.11
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	2	0.11
(1,348)	1:62:A:THR:HB	1:62:A:THR:HG21	19	0.11
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	4	0.11
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	8	0.11
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	13	0.11
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	16	0.11
(1,336)	1:61:A:SER:HA	1:62:A:THR:HA	11	0.11
(1,336)	1:61:A:SER:HA	1:62:A:THR:HA	12	0.11
(1,334)	1:61:A:SER:H	1:62:A:THR:HA	12	0.11
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB2	9	0.11
(1,321)	1:59:A:SER:HA	1:61:A:SER:HB3	9	0.11
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	7	0.11
(1,316)	1:59:A:SER:H	1:60:A:SER:HA	13	0.11
(1,313)	1:58:A:ASP:HB2	1:59:A:SER:HB2	12	0.11
(1,313)	1:58:A:ASP:HB2	1:59:A:SER:HB3	12	0.11
(1,313)	1:58:A:ASP:HB3	1:59:A:SER:HB2	12	0.11
(1,313)	1:58:A:ASP:HB3	1:59:A:SER:HB3	12	0.11
(1,311)	1:58:A:ASP:HA	1:59:A:SER:HA	2	0.11
(1,311)	1:58:A:ASP:HA	1:59:A:SER:HA	14	0.11
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB2	18	0.11
(1,306)	1:57:A:GLN:HB2	1:61:A:SER:HB3	18	0.11
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB2	18	0.11
(1,306)	1:57:A:GLN:HB3	1:61:A:SER:HB3	18	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB2	8	0.11
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB3	8	0.11
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB2	8	0.11
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB3	8	0.11
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB2	17	0.11
(1,305)	1:57:A:GLN:HB2	1:58:A:ASP:HB3	17	0.11
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB2	17	0.11
(1,305)	1:57:A:GLN:HB3	1:58:A:ASP:HB3	17	0.11
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	3	0.11
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	3	0.11
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	5	0.11
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	5	0.11
(1,299)	1:57:A:GLN:HA	1:61:A:SER:HA	20	0.11
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG2	18	0.11
(1,293)	1:57:A:GLN:H	1:57:A:GLN:HG3	18	0.11
(1,280)	1:56:A:VAL:HB	1:60:A:SER:HA	3	0.11
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	3	0.11
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	3	0.11
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB2	15	0.11
(1,279)	1:56:A:VAL:HB	1:59:A:SER:HB3	15	0.11
(1,275)	1:56:A:VAL:HB	1:57:A:GLN:H	4	0.11
(1,248)	1:55:A:ALA:HB3	1:56:A:VAL:H	5	0.11
(1,248)	1:55:A:ALA:HB3	1:56:A:VAL:H	8	0.11
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	6	0.11
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	9	0.11
(1,232)	1:54:A:GLY:H	1:56:A:VAL:H	6	0.11
(1,232)	1:54:A:GLY:H	1:56:A:VAL:H	15	0.11
(1,226)	1:53:A:MET:HA	1:56:A:VAL:HB	3	0.11
(1,211)	1:52:A:GLU:H	1:53:A:MET:HA	8	0.11
(1,209)	1:51:A:LYS:HG2	1:52:A:GLU:H	4	0.11
(1,209)	1:51:A:LYS:HG3	1:52:A:GLU:H	4	0.11
(1,209)	1:51:A:LYS:HG2	1:52:A:GLU:H	18	0.11
(1,209)	1:51:A:LYS:HG3	1:52:A:GLU:H	18	0.11
(1,207)	1:51:A:LYS:HB2	1:53:A:MET:H	8	0.11
(1,207)	1:51:A:LYS:HB3	1:53:A:MET:H	8	0.11
(1,204)	1:51:A:LYS:HB2	1:52:A:GLU:HA	1	0.11
(1,204)	1:51:A:LYS:HB3	1:52:A:GLU:HA	1	0.11
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB2	13	0.11
(1,190)	1:51:A:LYS:H	1:52:A:GLU:HB3	13	0.11
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB2	3	0.11
(1,183)	1:50:A:GLU:HB2	1:51:A:LYS:HB3	3	0.11
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB2	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,183)	1:50:A:GLU:HB3	1:51:A:LYS:HB3	3	0.11
(1,178)	1:50:A:GLU:HA	1:52:A:GLU:H	17	0.11
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG2	16	0.11
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG3	16	0.11
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	8	0.11
(1,159)	1:49:A:VAL:HG11	1:50:A:GLU:H	12	0.11
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB2	3	0.11
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB3	3	0.11
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB2	11	0.11
(1,158)	1:49:A:VAL:HB	1:52:A:GLU:HB3	11	0.11
(1,153)	1:49:A:VAL:HA	1:52:A:GLU:HA	10	0.11
(1,141)	1:48:A:LYS:HG2	1:52:A:GLU:HG2	11	0.11
(1,141)	1:48:A:LYS:HG2	1:52:A:GLU:HG3	11	0.11
(1,141)	1:48:A:LYS:HG3	1:52:A:GLU:HG2	11	0.11
(1,141)	1:48:A:LYS:HG3	1:52:A:GLU:HG3	11	0.11
(1,124)	1:48:A:LYS:HA	1:48:A:LYS:HG2	8	0.11
(1,124)	1:48:A:LYS:HA	1:48:A:LYS:HG3	8	0.11
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE2	1	0.11
(1,117)	1:48:A:LYS:H	1:48:A:LYS:HE3	1	0.11
(1,107)	1:47:A:ALA:HA	1:48:A:LYS:H	8	0.11
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	1	0.11
(1,96)	1:46:A:GLN:HB3	1:48:A:LYS:H	8	0.11
(1,95)	1:46:A:GLN:HB3	1:47:A:ALA:HA	10	0.11
(1,94)	1:46:A:GLN:HB2	1:48:A:LYS:H	8	0.11
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	2	0.11
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	2	0.11
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	3	0.11
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	3	0.11
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	11	0.11
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	11	0.11
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	11	0.11
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	11	0.11
(1,76)	1:45:A:MET:HG2	1:46:A:GLN:HA	5	0.11
(1,76)	1:45:A:MET:HG3	1:46:A:GLN:HA	5	0.11
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE2	14	0.11
(1,75)	1:45:A:MET:HB2	1:48:A:LYS:HE3	14	0.11
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE2	14	0.11
(1,75)	1:45:A:MET:HB3	1:48:A:LYS:HE3	14	0.11
(1,64)	1:45:A:MET:HA	1:47:A:ALA:H	11	0.11
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	3	0.11
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	5	0.11
(1,57)	1:45:A:MET:H	1:47:A:ALA:H	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	6	0.11
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	6	0.11
(1,39)	1:43:A:ARG:HA	1:45:A:MET:H	20	0.11
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	3	0.1
(1,2144)	1:152:A:ASN:H	1:153:A:ILE:H	6	0.1
(1,2141)	1:151:A:THR:HA	1:152:A:ASN:HA	18	0.1
(1,2136)	1:151:A:THR:H	1:152:A:ASN:H	10	0.1
(1,2136)	1:151:A:THR:H	1:152:A:ASN:H	12	0.1
(1,2118)	1:150:A:ARG:H	1:151:A:THR:HA	6	0.1
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD2	17	0.1
(1,2097)	1:149:A:LYS:HA	1:149:A:LYS:HD3	17	0.1
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD2	15	0.1
(1,2091)	1:149:A:LYS:H	1:149:A:LYS:HD3	15	0.1
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	5	0.1
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	5	0.1
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG11	13	0.1
(1,2067)	1:146:A:VAL:HA	1:146:A:VAL:HG21	13	0.1
(1,2063)	1:146:A:VAL:H	1:146:A:VAL:HB	7	0.1
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB2	17	0.1
(1,2059)	1:145:A:LYS:HE2	1:147:A:SER:HB3	17	0.1
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB2	17	0.1
(1,2059)	1:145:A:LYS:HE3	1:147:A:SER:HB3	17	0.1
(1,2036)	1:144:A:LEU:HD11	1:146:A:VAL:HB	3	0.1
(1,2035)	1:144:A:LEU:HD11	1:146:A:VAL:HA	7	0.1
(1,1997)	1:141:A:GLY:H	1:142:A:ARG:HA	11	0.1
(1,1963)	1:139:A:LEU:H	1:141:A:GLY:HA2	11	0.1
(1,1963)	1:139:A:LEU:H	1:141:A:GLY:HA3	11	0.1
(1,1961)	1:139:A:LEU:H	1:139:A:LEU:HG	2	0.1
(1,1960)	1:139:A:LEU:H	1:139:A:LEU:HD11	15	0.1
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA2	13	0.1
(1,1948)	1:138:A:GLU:HA	1:141:A:GLY:HA3	13	0.1
(1,1926)	1:137:A:THR:H	1:144:A:LEU:H	10	0.1
(1,1926)	1:137:A:THR:H	1:144:A:LEU:H	18	0.1
(1,1922)	1:137:A:THR:H	1:137:A:THR:HB	5	0.1
(1,1898)	1:136:A:GLU:HA	1:144:A:LEU:HG	16	0.1
(1,1830)	1:132:A:LEU:HB2	1:133:A:LEU:H	14	0.1
(1,1830)	1:132:A:LEU:HB3	1:133:A:LEU:H	14	0.1
(1,1828)	1:132:A:LEU:HD11	1:134:A:LEU:H	18	0.1
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	9	0.1
(1,1822)	1:132:A:LEU:HA	1:148:A:ALA:HA	20	0.1
(1,1821)	1:132:A:LEU:HA	1:148:A:ALA:H	4	0.1
(1,1812)	1:132:A:LEU:H	1:132:A:LEU:HB2	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1812)	1:132:A:LEU:H	1:132:A:LEU:HB3	4	0.1
(1,1811)	1:132:A:LEU:H	1:132:A:LEU:HD11	5	0.1
(1,1800)	1:131:A:ALA:H	1:132:A:LEU:H	17	0.1
(1,1796)	1:130:A:ASN:HB2	1:131:A:ALA:HB3	15	0.1
(1,1796)	1:130:A:ASN:HB3	1:131:A:ALA:HB3	15	0.1
(1,1787)	1:130:A:ASN:HA	1:132:A:LEU:HD11	15	0.1
(1,1775)	1:129:A:GLN:HG2	1:133:A:LEU:HD11	2	0.1
(1,1775)	1:129:A:GLN:HG3	1:133:A:LEU:HD11	2	0.1
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	3	0.1
(1,1768)	1:129:A:GLN:HA	1:132:A:LEU:HD11	6	0.1
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG2	10	0.1
(1,1764)	1:129:A:GLN:HA	1:129:A:GLN:HG3	10	0.1
(1,1739)	1:128:A:VAL:HG11	1:129:A:GLN:H	15	0.1
(1,1733)	1:128:A:VAL:HA	1:130:A:ASN:H	16	0.1
(1,1730)	1:128:A:VAL:H	1:131:A:ALA:HB3	1	0.1
(1,1728)	1:128:A:VAL:H	1:130:A:ASN:H	17	0.1
(1,1722)	1:127:A:ALA:HB3	1:128:A:VAL:H	7	0.1
(1,1709)	1:126:A:ASP:HB2	1:127:A:ALA:H	14	0.1
(1,1709)	1:126:A:ASP:HB3	1:127:A:ALA:H	14	0.1
(1,1697)	1:126:A:ASP:H	1:127:A:ALA:H	16	0.1
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	2	0.1
(1,1691)	1:125:A:ILE:HG21	1:129:A:GLN:HA	19	0.1
(1,1687)	1:125:A:ILE:HG21	1:126:A:ASP:H	4	0.1
(1,1682)	1:125:A:ILE:HB	1:126:A:ASP:HB2	3	0.1
(1,1682)	1:125:A:ILE:HB	1:126:A:ASP:HB3	3	0.1
(1,1622)	1:122:A:PHE:HE2	1:127:A:ALA:HB3	7	0.1
(1,1561)	1:115:A:LYS:HA	1:116:A:GLY:H	4	0.1
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG2	6	0.1
(1,1530)	1:112:A:GLY:HA2	1:113:A:GLN:HG3	6	0.1
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG2	6	0.1
(1,1530)	1:112:A:GLY:HA3	1:113:A:GLN:HG3	6	0.1
(1,1510)	1:111:A:PHE:H	1:113:A:GLN:HB2	12	0.1
(1,1510)	1:111:A:PHE:H	1:113:A:GLN:HB3	12	0.1
(1,1510)	1:111:A:PHE:H	1:113:A:GLN:HB2	16	0.1
(1,1510)	1:111:A:PHE:H	1:113:A:GLN:HB3	16	0.1
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB2	5	0.1
(1,1502)	1:110:A:LYS:HD2	1:115:A:LYS:HB3	5	0.1
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB2	5	0.1
(1,1502)	1:110:A:LYS:HD3	1:115:A:LYS:HB3	5	0.1
(1,1481)	1:109:A:ASP:HB2	1:115:A:LYS:HA	10	0.1
(1,1481)	1:109:A:ASP:HB3	1:115:A:LYS:HA	10	0.1
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB2	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1473)	1:109:A:ASP:HA	1:113:A:GLN:HB3	20	0.1
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB2	17	0.1
(1,1467)	1:109:A:ASP:H	1:117:A:PHE:HB3	17	0.1
(1,1445)	1:108:A:THR:HA	1:115:A:LYS:HA	5	0.1
(1,1426)	1:107:A:LEU:HA	1:107:A:LEU:HG	1	0.1
(1,1420)	1:107:A:LEU:H	1:107:A:LEU:HD11	8	0.1
(1,1388)	1:106:A:ILE:H	1:119:A:TYR:H	2	0.1
(1,1376)	1:105:A:THR:HB	1:118:A:ALA:HA	13	0.1
(1,1334)	1:103:A:ARG:HA	1:104:A:VAL:HG11	9	0.1
(1,1327)	1:103:A:ARG:H	1:121:A:GLU:H	15	0.1
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	3	0.1
(1,1326)	1:103:A:ARG:H	1:120:A:VAL:HB	18	0.1
(1,1320)	1:102:A:ASN:HB2	1:123:A:VAL:H	2	0.1
(1,1320)	1:102:A:ASN:HB3	1:123:A:VAL:H	2	0.1
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	4	0.1
(1,1288)	1:101:A:VAL:HG11	1:102:A:ASN:H	17	0.1
(1,1270)	1:100:A:THR:HA	1:101:A:VAL:HG11	13	0.1
(1,1264)	1:99:A:GLY:HA2	1:131:A:ALA:H	13	0.1
(1,1264)	1:99:A:GLY:HA3	1:131:A:ALA:H	13	0.1
(1,1259)	1:99:A:GLY:HA2	1:128:A:VAL:H	15	0.1
(1,1259)	1:99:A:GLY:HA3	1:128:A:VAL:H	15	0.1
(1,1219)	1:96:A:GLN:HA	1:101:A:VAL:HG11	7	0.1
(1,1202)	1:95:A:PHE:HE1	1:136:A:GLU:HA	16	0.1
(1,1170)	1:93:A:GLN:HA	1:96:A:GLN:HA	11	0.1
(1,1163)	1:93:A:GLN:H	1:94:A:HIS:HA	18	0.1
(1,1148)	1:92:A:GLN:HA	1:93:A:GLN:H	10	0.1
(1,1146)	1:92:A:GLN:HA	1:120:A:VAL:HG11	14	0.1
(1,1142)	1:92:A:GLN:HA	1:101:A:VAL:HB	20	0.1
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG2	4	0.1
(1,1121)	1:91:A:VAL:HA	1:93:A:GLN:HG3	4	0.1
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	15	0.1
(1,1114)	1:91:A:VAL:H	1:93:A:GLN:H	18	0.1
(1,1090)	1:90:A:GLU:H	1:93:A:GLN:H	19	0.1
(1,1087)	1:90:A:GLU:H	1:91:A:VAL:HB	14	0.1
(1,1085)	1:90:A:GLU:H	1:91:A:VAL:H	16	0.1
(1,1074)	1:89:A:GLU:HA	1:93:A:GLN:HG2	2	0.1
(1,1074)	1:89:A:GLU:HA	1:93:A:GLN:HG3	2	0.1
(1,1073)	1:89:A:GLU:HA	1:93:A:GLN:H	15	0.1
(1,1069)	1:89:A:GLU:HA	1:91:A:VAL:H	2	0.1
(1,1065)	1:89:A:GLU:H	1:91:A:VAL:HB	3	0.1
(1,1064)	1:89:A:GLU:H	1:91:A:VAL:H	4	0.1
(1,1049)	1:88:A:PRO:HB2	1:106:A:ILE:HA	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1049)	1:88:A:PRO:HB3	1:106:A:ILE:HA	20	0.1
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG2	11	0.1
(1,1047)	1:88:A:PRO:HA	1:92:A:GLN:HG3	11	0.1
(1,1042)	1:88:A:PRO:HA	1:90:A:GLU:H	1	0.1
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG12	20	0.1
(1,1039)	1:88:A:PRO:HA	1:106:A:ILE:HG13	20	0.1
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	3	0.1
(1,1038)	1:88:A:PRO:HA	1:106:A:ILE:HG21	20	0.1
(1,1020)	1:86:A:CYS:HB2	1:116:A:GLY:HA2	20	0.1
(1,1020)	1:86:A:CYS:HB2	1:116:A:GLY:HA3	20	0.1
(1,1020)	1:86:A:CYS:HB3	1:116:A:GLY:HA2	20	0.1
(1,1020)	1:86:A:CYS:HB3	1:116:A:GLY:HA3	20	0.1
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB2	13	0.1
(1,1007)	1:85:A:ALA:H	1:86:A:CYS:HB3	13	0.1
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA2	18	0.1
(1,958)	1:83:A:ASP:HB2	1:116:A:GLY:HA3	18	0.1
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA2	18	0.1
(1,958)	1:83:A:ASP:HB3	1:116:A:GLY:HA3	18	0.1
(1,950)	1:83:A:ASP:H	1:86:A:CYS:H	2	0.1
(1,915)	1:82:A:VAL:H	1:145:A:LYS:H	13	0.1
(1,888)	1:80:A:GLY:HA2	1:82:A:VAL:H	10	0.1
(1,888)	1:80:A:GLY:HA3	1:82:A:VAL:H	10	0.1
(1,879)	1:80:A:GLY:HA3	1:81:A:ASN:H	20	0.1
(1,876)	1:80:A:GLY:HA2	1:145:A:LYS:H	16	0.1
(1,859)	1:79:A:VAL:HG11	1:80:A:GLY:H	15	0.1
(1,853)	1:79:A:VAL:HG11	1:144:A:LEU:HG	3	0.1
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB2	14	0.1
(1,850)	1:79:A:VAL:HG11	1:135:A:ASN:HB3	14	0.1
(1,844)	1:79:A:VAL:HB	1:118:A:ALA:HB3	7	0.1
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG11	19	0.1
(1,835)	1:79:A:VAL:HA	1:146:A:VAL:HG21	19	0.1
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD2	8	0.1
(1,818)	1:78:A:TYR:HB2	1:149:A:LYS:HD3	8	0.1
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD2	8	0.1
(1,818)	1:78:A:TYR:HB3	1:149:A:LYS:HD3	8	0.1
(1,789)	1:78:A:TYR:H	1:148:A:ALA:H	7	0.1
(1,789)	1:78:A:TYR:H	1:148:A:ALA:H	13	0.1
(1,747)	1:77:A:ILE:HB	1:146:A:VAL:HB	13	0.1
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB2	19	0.1
(1,717)	1:76:A:SER:HA	1:149:A:LYS:HB3	19	0.1
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB2	1	0.1
(1,713)	1:76:A:SER:H	1:149:A:LYS:HB3	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG12	1	0.1
(1,692)	1:75:A:ARG:HB2	1:125:A:ILE:HG13	1	0.1
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG12	1	0.1
(1,692)	1:75:A:ARG:HB3	1:125:A:ILE:HG13	1	0.1
(1,664)	1:74:A:SER:HA	1:75:A:ARG:HD2	15	0.1
(1,664)	1:74:A:SER:HA	1:75:A:ARG:HD3	15	0.1
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD2	18	0.1
(1,657)	1:74:A:SER:HA	1:150:A:ARG:HD3	18	0.1
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB2	3	0.1
(1,656)	1:74:A:SER:HA	1:150:A:ARG:HB3	3	0.1
(1,626)	1:72:A:VAL:HG11	1:75:A:ARG:H	1	0.1
(1,606)	1:72:A:VAL:HA	1:75:A:ARG:H	6	0.1
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB2	17	0.1
(1,592)	1:72:A:VAL:H	1:73:A:ASP:HB3	17	0.1
(1,564)	1:71:A:GLU:HG2	1:72:A:VAL:H	9	0.1
(1,557)	1:71:A:GLU:HA	1:73:A:ASP:H	6	0.1
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	2	0.1
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	2	0.1
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG2	18	0.1
(1,554)	1:71:A:GLU:HA	1:71:A:GLU:HG3	18	0.1
(1,551)	1:71:A:GLU:H	1:72:A:VAL:HB	4	0.1
(1,545)	1:70:A:GLU:HB2	1:72:A:VAL:H	6	0.1
(1,545)	1:70:A:GLU:HB3	1:72:A:VAL:H	6	0.1
(1,544)	1:70:A:GLU:HB2	1:71:A:GLU:HA	1	0.1
(1,544)	1:70:A:GLU:HB3	1:71:A:GLU:HA	1	0.1
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB2	10	0.1
(1,540)	1:70:A:GLU:HA	1:74:A:SER:HB3	10	0.1
(1,529)	1:70:A:GLU:H	1:72:A:VAL:HB	13	0.1
(1,493)	1:69:A:LYS:HA	1:73:A:ASP:H	15	0.1
(1,460)	1:68:A:GLU:HA	1:71:A:GLU:H	18	0.1
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	4	0.1
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	4	0.1
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB2	16	0.1
(1,459)	1:68:A:GLU:HA	1:70:A:GLU:HB3	16	0.1
(1,448)	1:67:A:ALA:HA	1:70:A:GLU:H	3	0.1
(1,441)	1:67:A:ALA:H	1:69:A:LYS:H	8	0.1
(1,437)	1:67:A:ALA:H	1:67:A:ALA:HB3	3	0.1
(1,410)	1:65:A:THR:HB	1:66:A:GLN:HB2	8	0.1
(1,410)	1:65:A:THR:HB	1:66:A:GLN:HB3	8	0.1
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG2	14	0.1
(1,407)	1:65:A:THR:HA	1:69:A:LYS:HG3	14	0.1
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD2	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,406)	1:65:A:THR:HA	1:69:A:LYS:HD3	8	0.1
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	4	0.1
(1,403)	1:65:A:THR:HA	1:69:A:LYS:H	6	0.1
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB2	14	0.1
(1,402)	1:65:A:THR:HA	1:68:A:GLU:HB3	14	0.1
(1,400)	1:65:A:THR:HA	1:67:A:ALA:H	1	0.1
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	1	0.1
(1,392)	1:65:A:THR:H	1:66:A:GLN:H	12	0.1
(1,379)	1:64:A:ALA:HA	1:68:A:GLU:H	13	0.1
(1,364)	1:63:A:SER:HA	1:66:A:GLN:H	16	0.1
(1,362)	1:63:A:SER:HA	1:65:A:THR:H	3	0.1
(1,342)	1:62:A:THR:HA	1:62:A:THR:HG21	9	0.1
(1,334)	1:61:A:SER:H	1:62:A:THR:HA	14	0.1
(1,334)	1:61:A:SER:H	1:62:A:THR:HA	16	0.1
(1,311)	1:58:A:ASP:HA	1:59:A:SER:HA	17	0.1
(1,304)	1:57:A:GLN:HB2	1:58:A:ASP:HA	16	0.1
(1,304)	1:57:A:GLN:HB3	1:58:A:ASP:HA	16	0.1
(1,292)	1:57:A:GLN:H	1:57:A:GLN:HB2	4	0.1
(1,292)	1:57:A:GLN:H	1:57:A:GLN:HB3	4	0.1
(1,282)	1:56:A:VAL:HB	1:61:A:SER:HA	12	0.1
(1,256)	1:56:A:VAL:H	1:57:A:GLN:H	20	0.1
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	1	0.1
(1,245)	1:55:A:ALA:HA	1:58:A:ASP:H	18	0.1
(1,237)	1:55:A:ALA:H	1:57:A:GLN:H	1	0.1
(1,235)	1:55:A:ALA:H	1:55:A:ALA:HB3	6	0.1
(1,209)	1:51:A:LYS:HG2	1:52:A:GLU:H	13	0.1
(1,209)	1:51:A:LYS:HG3	1:52:A:GLU:H	13	0.1
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG2	4	0.1
(1,175)	1:50:A:GLU:H	1:53:A:MET:HG3	4	0.1
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB2	3	0.1
(1,172)	1:50:A:GLU:H	1:51:A:LYS:HB3	3	0.1
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB2	13	0.1
(1,167)	1:49:A:VAL:HG21	1:53:A:MET:HB3	13	0.1
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	4	0.1
(1,160)	1:49:A:VAL:HG11	1:50:A:GLU:HA	17	0.1
(1,129)	1:48:A:LYS:HA	1:52:A:GLU:H	6	0.1
(1,89)	1:46:A:GLN:HA	1:48:A:LYS:H	10	0.1
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG2	14	0.1
(1,87)	1:46:A:GLN:HA	1:46:A:GLN:HG3	14	0.1
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB2	17	0.1
(1,82)	1:46:A:GLN:H	1:46:A:GLN:HB3	17	0.1
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG2	20	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:45:A:MET:HG2	1:46:A:GLN:HG3	20	0.1
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG2	20	0.1
(1,77)	1:45:A:MET:HG3	1:46:A:GLN:HG3	20	0.1
(1,45)	1:43:A:ARG:HB2	1:45:A:MET:H	14	0.1
(1,45)	1:43:A:ARG:HB3	1:45:A:MET:H	14	0.1
(1,26)	1:42:A:LEU:HG	1:43:A:ARG:HA	15	0.1

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found