Full wwPDB NMR Structure Validation Report (i)

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PDB ID	:	2KDO / pdb_00002kdo
BMRB ID	:	16119
Title	:	Structure of the human Shwachman-Bodian-Diamond syndrome protein, SBDS
Authors	:	de Oliveira, J.F.; Sforca, M.L.; Blumenschein, T.; Guimaraes, B.G.; Zanchin, N.I.T.; Zeri, A.C.
Deposited on	:	2009-01-14

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 (i) 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 (1)) were used in the production of this report:

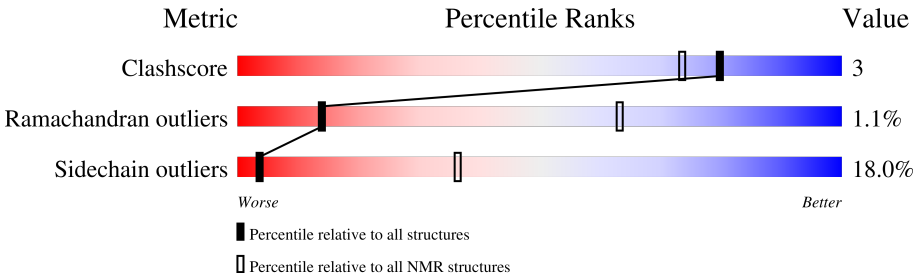
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber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

1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 74%.

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	252	60% 10% 30%

2 Ensemble composition and analysis (i)

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

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:9-A:40, A:47-A:97 (83)	0.96	1
2	A:142-A:169 (28)	1.76	11
3	A:174-A:239 (66)	0.71	10

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. No single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 4156 atoms, of which 2127 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Ribosome maturation protein SBDS.

Mol	Chain	Residues	Atoms						Trace
1	A	252	Total	C	H	N	O	S	0
			4156	1280	2127	356	382	11	

There are 2 discrepancies between the modelled and reference sequences:

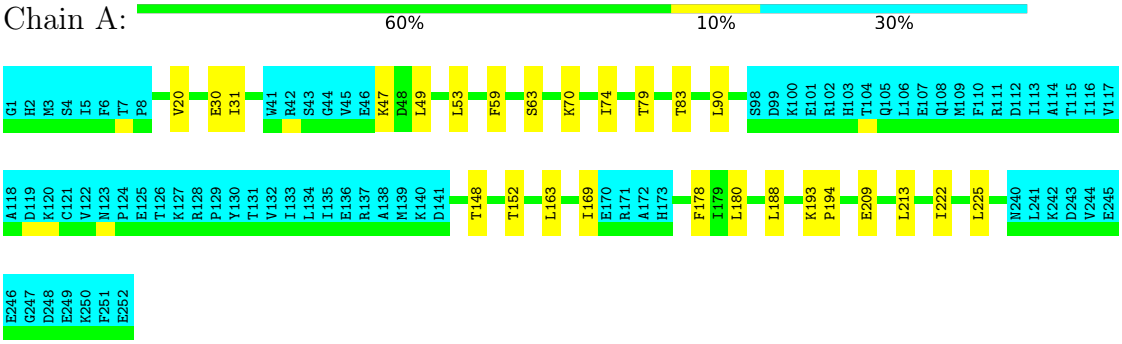
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	expression tag	UNP Q9Y3A5
A	2	HIS	-	expression tag	UNP Q9Y3A5

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: Ribosome maturation protein SBDS

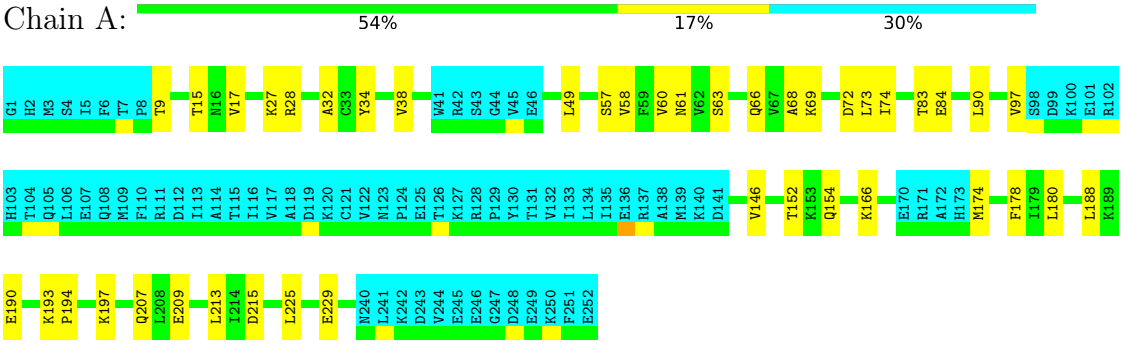


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1 (medoid)

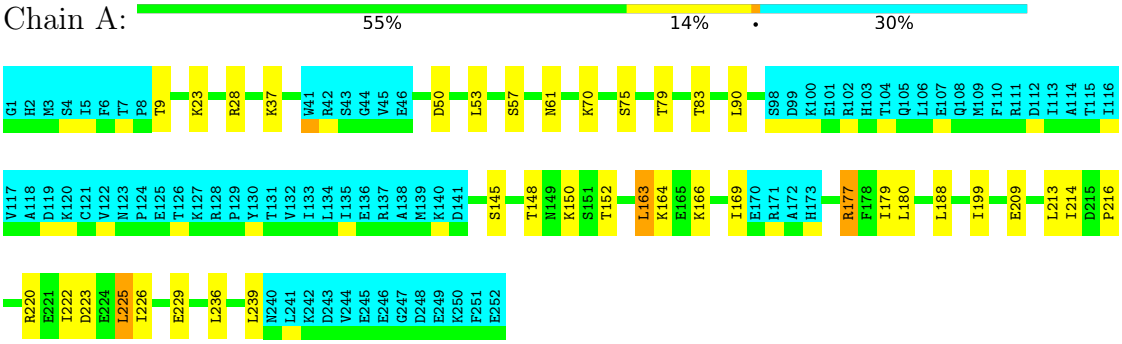
• Molecule 1: Ribosome maturation protein SBDS



4.2.2 Score per residue for model 2

• Molecule 1: Ribosome maturation protein SBDS

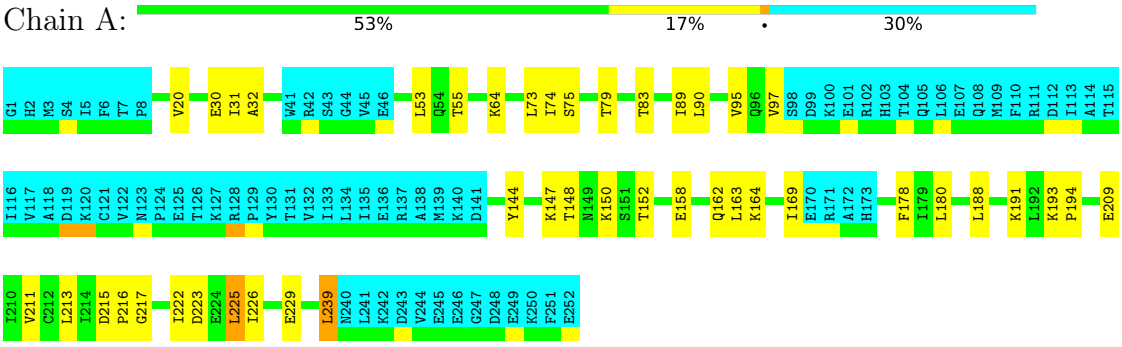
Chain A:



4.2.3 Score per residue for model 3

• Molecule 1: Ribosome maturation protein SBDS

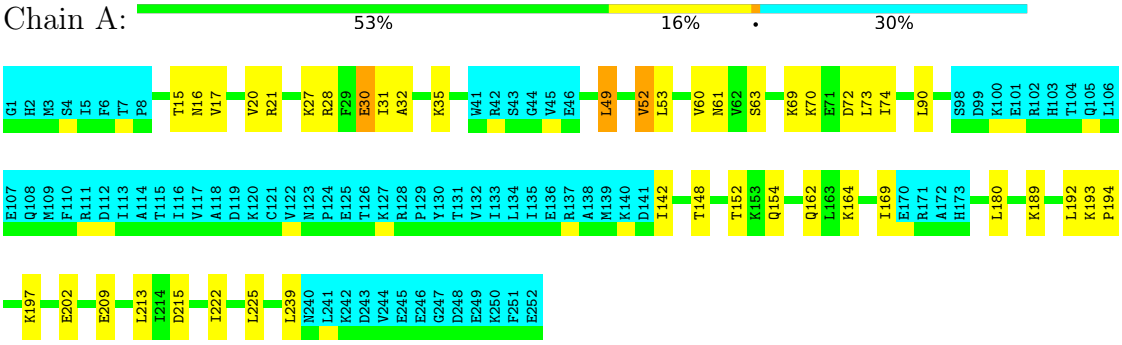
Chain A:



4.2.4 Score per residue for model 4

• Molecule 1: Ribosome maturation protein SBDS

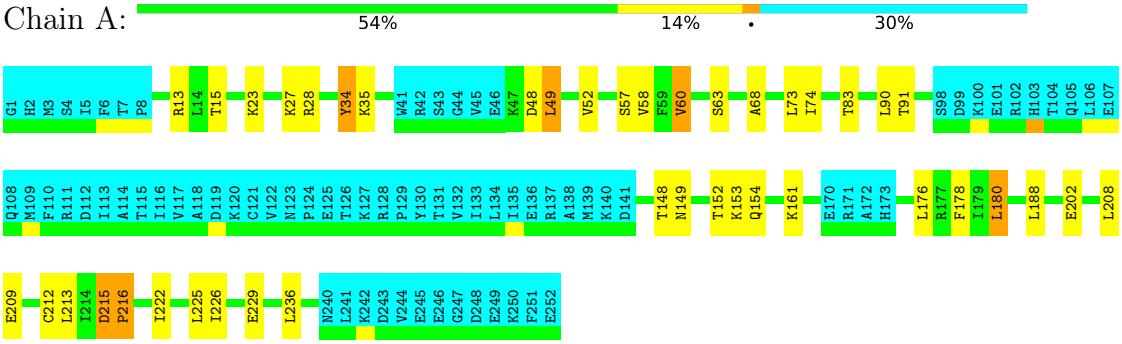
Chain A:



4.2.5 Score per residue for model 5

• Molecule 1: Ribosome maturation protein SBDS

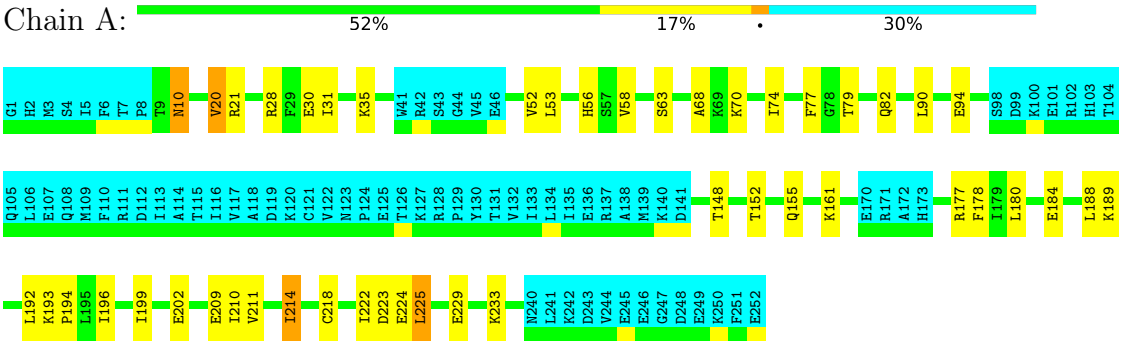
Chain A:



4.2.6 Score per residue for model 6

• Molecule 1: Ribosome maturation protein SBDS

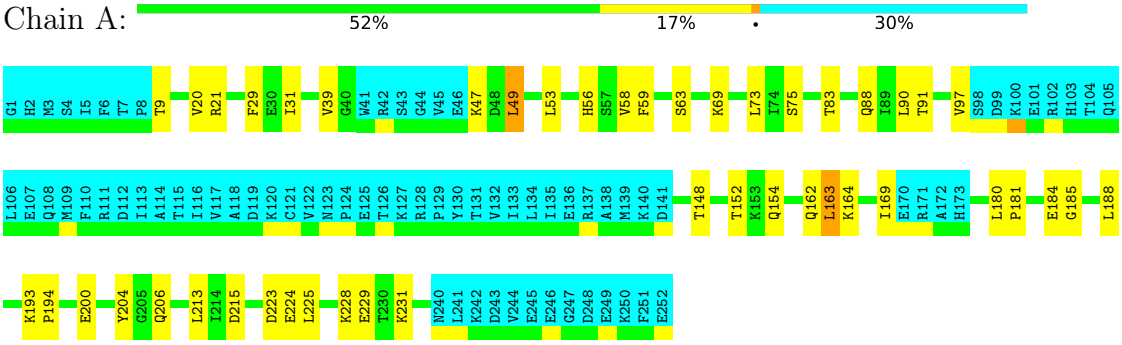
Chain A:



4.2.7 Score per residue for model 7

• Molecule 1: Ribosome maturation protein SBDS

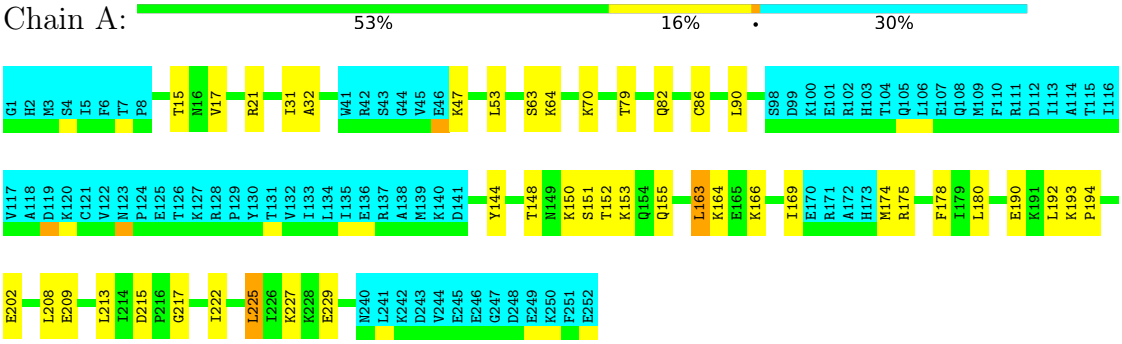
Chain A:



4.2.8 Score per residue for model 8

• Molecule 1: Ribosome maturation protein SBDS

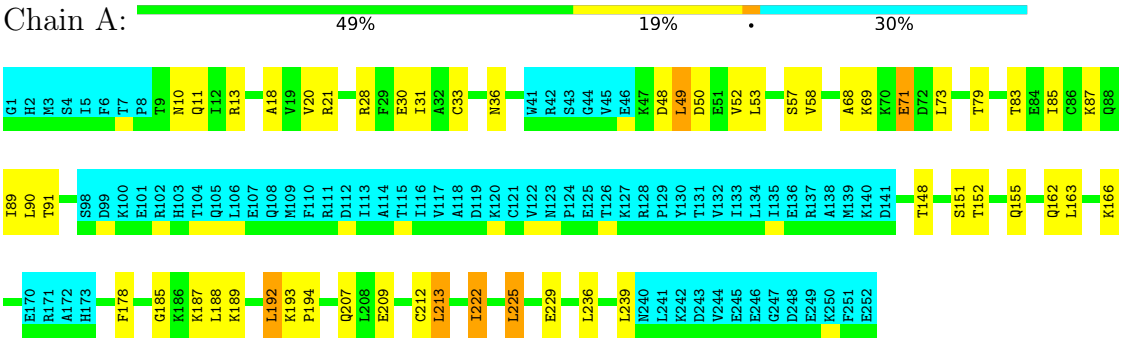
Chain A:



4.2.9 Score per residue for model 9

• Molecule 1: Ribosome maturation protein SBDS

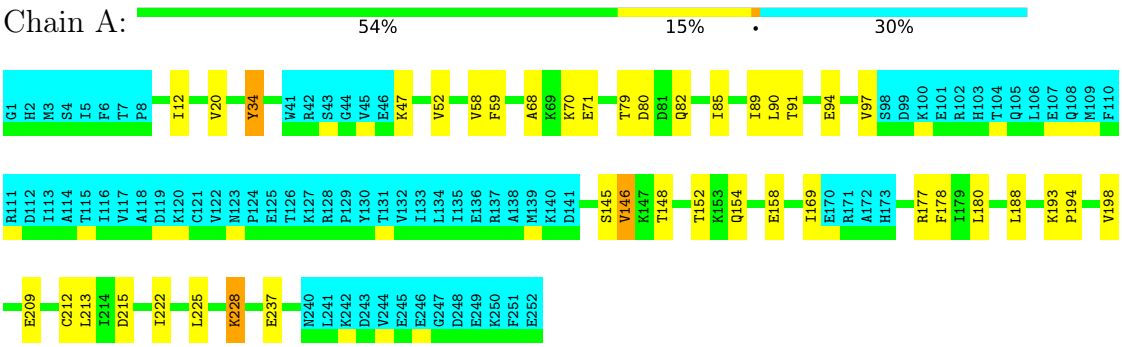
Chain A:



4.2.10 Score per residue for model 10

• Molecule 1: Ribosome maturation protein SBDS

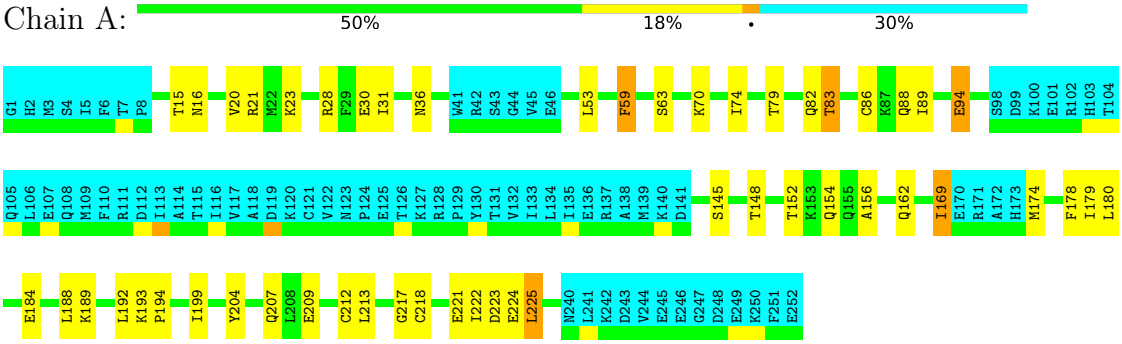
Chain A:



4.2.11 Score per residue for model 11

• Molecule 1: Ribosome maturation protein SBDS

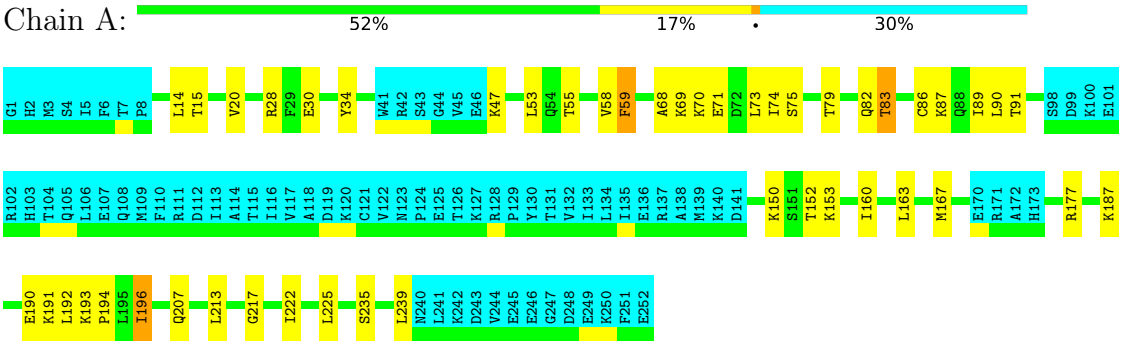
Chain A:



4.2.12 Score per residue for model 12

• Molecule 1: Ribosome maturation protein SBDS

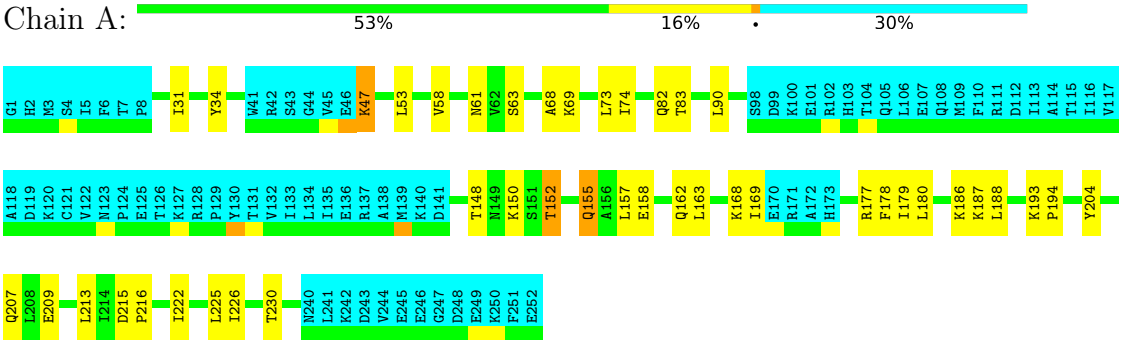
Chain A:



4.2.13 Score per residue for model 13

• Molecule 1: Ribosome maturation protein SBDS

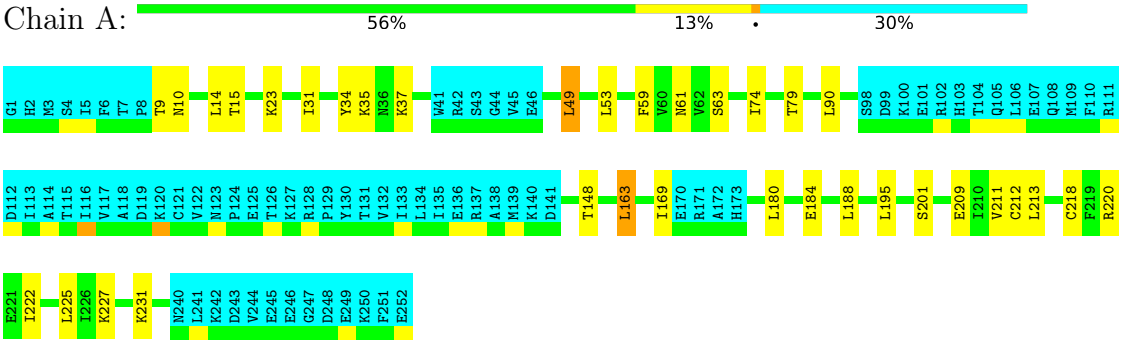
Chain A:



4.2.14 Score per residue for model 14

• Molecule 1: Ribosome maturation protein SBDS

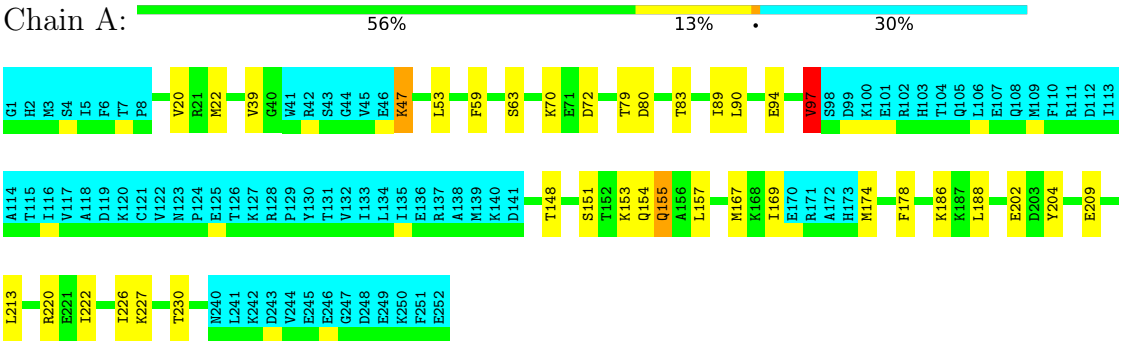
Chain A:



4.2.15 Score per residue for model 15

• Molecule 1: Ribosome maturation protein SBDS

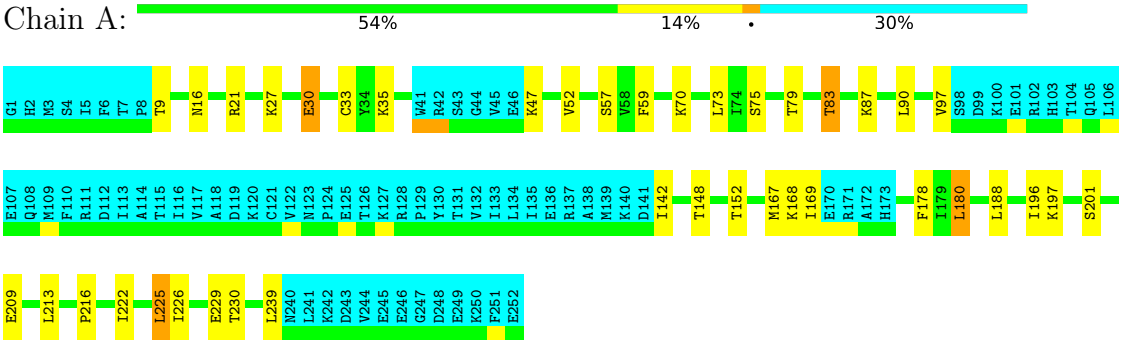
Chain A:



4.2.16 Score per residue for model 16

• Molecule 1: Ribosome maturation protein SBDS

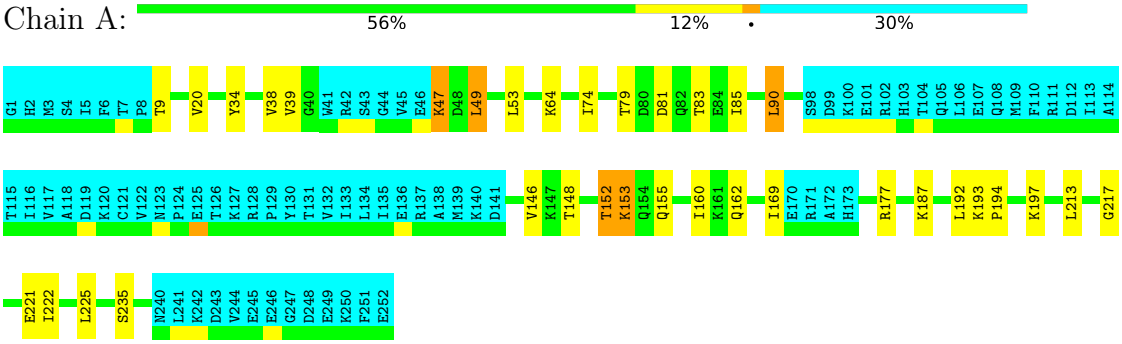
Chain A:



4.2.17 Score per residue for model 17

• Molecule 1: Ribosome maturation protein SBDS

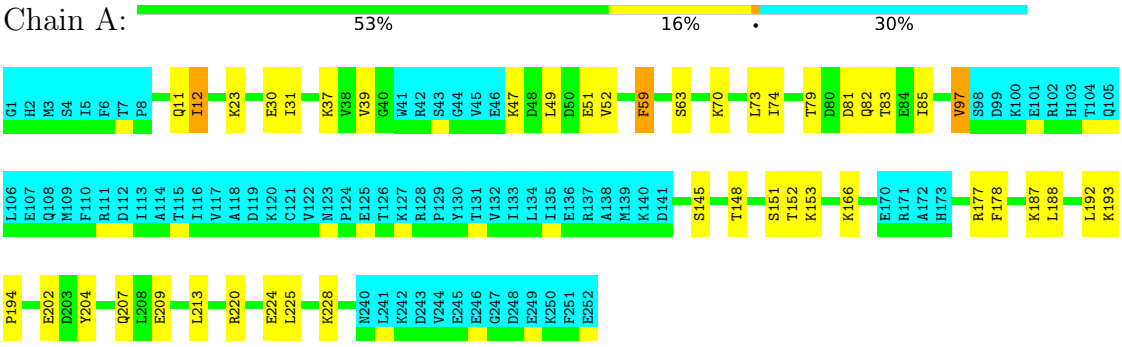
Chain A:



4.2.18 Score per residue for model 18

• Molecule 1: Ribosome maturation protein SBDS

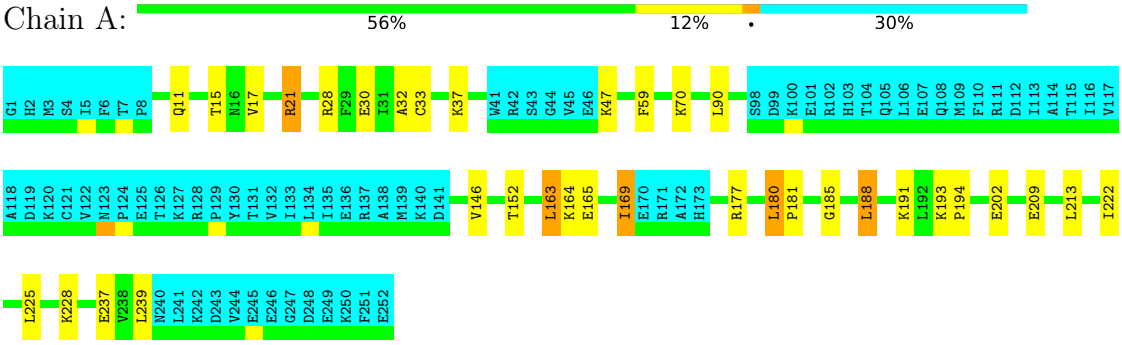
Chain A:



4.2.19 Score per residue for model 19

• Molecule 1: Ribosome maturation protein SBDS

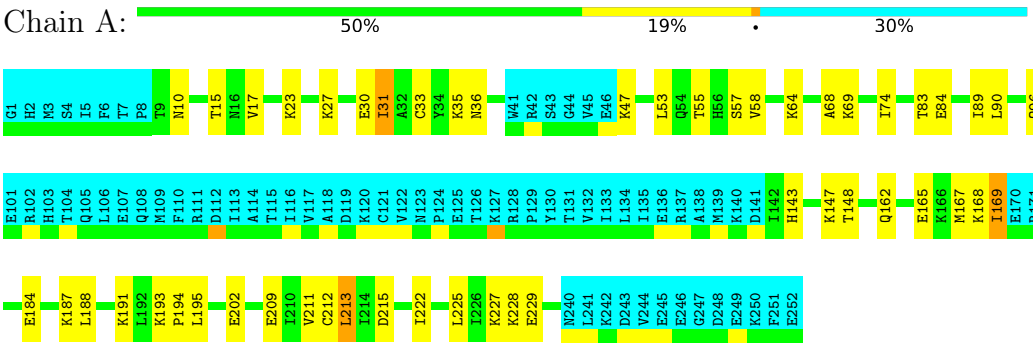
Chain A:



4.2.20 Score per residue for model 20

• Molecule 1: Ribosome maturation protein SBDS

Chain A:



5 Refinement protocol and experimental data overview

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

Of the 100 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	structure solution	.
CYANA	geometry optimization	.
DYANA	structure solution	.
DYANA	geometry optimization	.
CYANA	refinement	2.1
CNS	refinement	1.1

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	2498
Number of shifts mapped to atoms	2498
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	74%

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	1412	1522	1520	8±3
All	All	28240	30440	30400	161

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:180:LEU:HD12	1:A:181:PRO:HD2	0.72	1.61	7	1
1:A:49:LEU:H	1:A:49:LEU:HD13	0.61	1.56	7	4
1:A:20:VAL:HG22	1:A:89:ILE:HG22	0.60	1.74	3	6
1:A:17:VAL:HB	1:A:32:ALA:HB1	0.59	1.74	19	4
1:A:222:ILE:O	1:A:225:LEU:HG	0.58	1.97	14	13
1:A:154:GLN:O	1:A:155:GLN:HG2	0.56	2.01	15	1
1:A:83:THR:HA	1:A:86:CYS:SG	0.56	2.41	12	2
1:A:30:GLU:HG2	1:A:59:PHE:CD1	0.55	2.35	12	1
1:A:202:GLU:HA	1:A:209:GLU:O	0.55	2.02	5	6
1:A:193:LYS:N	1:A:194:PRO:HD2	0.55	2.17	20	15
1:A:178:PHE:CZ	1:A:210:ILE:HB	0.55	2.36	6	1
1:A:49:LEU:HB2	1:A:83:THR:HG23	0.55	1.77	17	1
1:A:180:LEU:HD23	1:A:181:PRO:HD2	0.54	1.78	19	1
1:A:20:VAL:HG13	1:A:31:ILE:HG13	0.54	1.80	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:178:PHE:O	1:A:209:GLU:HA	0.54	2.03	20	13
1:A:185:GLY:O	1:A:188:LEU:HG	0.54	2.02	9	2
1:A:17:VAL:HA	1:A:33:CYS:O	0.53	2.03	20	1
1:A:198:VAL:HG12	1:A:212:CYS:HB3	0.53	1.81	10	1
1:A:85:ILE:O	1:A:89:ILE:HG13	0.52	2.05	10	2
1:A:34:TYR:HB2	1:A:52:VAL:HG13	0.52	1.81	5	1
1:A:69:LYS:HB3	1:A:71:GLU:OE2	0.52	2.05	9	1
1:A:155:GLN:HA	1:A:158:GLU:OE1	0.52	2.04	13	1
1:A:31:ILE:HD11	1:A:89:ILE:HD12	0.52	1.82	20	1
1:A:53:LEU:HD21	1:A:86:CYS:SG	0.51	2.46	8	1
1:A:222:ILE:O	1:A:226:ILE:HG12	0.51	2.06	13	6
1:A:60:VAL:HG23	1:A:68:ALA:HB2	0.50	1.84	5	1
1:A:58:VAL:HG13	1:A:68:ALA:HB3	0.49	1.84	10	8
1:A:215:ASP:OD2	1:A:216:PRO:HD2	0.49	2.08	5	1
1:A:49:LEU:O	1:A:52:VAL:HG12	0.49	2.07	9	2
1:A:224:GLU:O	1:A:228:LYS:HE2	0.49	2.07	7	1
1:A:177:ARG:HD2	1:A:209:GLU:OE2	0.49	2.08	19	3
1:A:49:LEU:HA	1:A:52:VAL:HG12	0.49	1.85	4	1
1:A:228:LYS:HE3	1:A:228:LYS:C	0.48	2.33	10	1
1:A:21:ARG:HD2	1:A:30:GLU:OE1	0.48	2.09	4	1
1:A:177:ARG:HB2	1:A:209:GLU:OE2	0.48	2.09	2	1
1:A:81:ASP:O	1:A:85:ILE:HG12	0.48	2.08	17	2
1:A:163:LEU:HD13	1:A:164:LYS:N	0.47	2.25	19	3
1:A:169:ILE:HD13	1:A:169:ILE:H	0.47	1.68	20	3
1:A:177:ARG:HB3	1:A:211:VAL:HG22	0.47	1.87	6	1
1:A:87:LYS:O	1:A:91:THR:HG22	0.47	2.10	9	1
1:A:34:TYR:CD1	1:A:52:VAL:HG23	0.47	2.45	10	1
1:A:69:LYS:HG2	1:A:72:ASP:OD2	0.47	2.10	4	2
1:A:178:PHE:CE2	1:A:180:LEU:HD22	0.46	2.46	13	3
1:A:69:LYS:HB3	1:A:71:GLU:OE1	0.46	2.10	12	1
1:A:211:VAL:HG11	1:A:239:LEU:HD12	0.46	1.87	3	1
1:A:34:TYR:O	1:A:38:VAL:HB	0.46	2.11	1	1
1:A:212:CYS:O	1:A:213:LEU:HD22	0.45	2.11	20	1
1:A:49:LEU:HD21	1:A:83:THR:HG23	0.45	1.88	5	1
1:A:95:VAL:HG13	1:A:97:VAL:HG13	0.45	1.88	3	1
1:A:28:ARG:HB2	1:A:60:VAL:O	0.44	2.12	1	1
1:A:70:LYS:HG3	1:A:71:GLU:OE1	0.44	2.12	10	1
1:A:30:GLU:HB3	1:A:59:PHE:CD1	0.44	2.47	18	2
1:A:227:LYS:HA	1:A:231:LYS:HB3	0.44	1.89	14	1
1:A:39:VAL:HG23	1:A:97:VAL:HG12	0.44	1.90	7	1
1:A:21:ARG:HD3	1:A:30:GLU:OE1	0.44	2.12	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:20:VAL:HA	1:A:94:GLU:O	0.43	2.13	11	2
1:A:39:VAL:HB	1:A:97:VAL:HG21	0.43	1.90	15	1
1:A:16:ASN:OD1	1:A:35:LYS:HA	0.43	2.13	4	1
1:A:201:SER:HB2	1:A:211:VAL:HG21	0.43	1.91	14	1
1:A:21:ARG:HD2	1:A:30:GLU:OE2	0.43	2.13	19	1
1:A:29:PHE:HB3	1:A:58:VAL:CG2	0.43	2.44	7	1
1:A:83:THR:O	1:A:87:LYS:HB2	0.42	2.14	12	2
1:A:18:ALA:HB3	1:A:33:CYS:O	0.42	2.15	9	1
1:A:22:MET:HB2	1:A:89:ILE:HG23	0.42	1.92	15	1
1:A:152:THR:HG23	1:A:153:LYS:HD2	0.42	1.92	17	1
1:A:187:LYS:O	1:A:191:LYS:HE3	0.42	2.15	20	1
1:A:189:LYS:O	1:A:193:LYS:HB2	0.41	2.15	4	3
1:A:10:ASN:HB3	1:A:13:ARG:CG	0.41	2.45	9	1
1:A:192:LEU:HD11	1:A:212:CYS:SG	0.41	2.56	9	1
1:A:167:MET:HE3	1:A:167:MET:HA	0.41	1.93	20	1
1:A:236:LEU:H	1:A:236:LEU:HD23	0.41	1.75	5	1
1:A:69:LYS:O	1:A:73:LEU:HG	0.40	2.16	7	1
1:A:163:LEU:HD22	1:A:163:LEU:C	0.40	2.41	7	1
1:A:185:GLY:O	1:A:188:LEU:HD23	0.40	2.17	19	1
1:A:32:ALA:HB3	1:A:55:THR:HB	0.40	1.94	3	1
1:A:151:SER:OG	1:A:155:GLN:HA	0.40	2.16	8	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	177/252 (70%)	154±4 (87±3%)	21±4 (12±2%)	2±1 (1±1%)	14	63
All	All	3540/5040 (70%)	3078 (87%)	424 (12%)	38 (1%)	14	63

All 18 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	97	VAL	4

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Mol	Chain	Res	Type	Models (Total)
1	A	216	PRO	4
1	A	35	LYS	4
1	A	61	ASN	3
1	A	10	ASN	3
1	A	146	VAL	3
1	A	152	THR	2
1	A	154	GLN	2
1	A	196	ILE	2
1	A	39	VAL	2
1	A	47	LYS	2
1	A	142	ILE	1
1	A	214	ILE	1
1	A	213	LEU	1
1	A	217	GLY	1
1	A	38	VAL	1
1	A	11	GLN	1
1	A	12	ILE	1

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	161/229 (70%)	132±4 (82±3%)	29±4 (18±3%)	4 36
All	All	3220/4580 (70%)	2640 (82%)	580 (18%)	4 36

All 126 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	213	LEU	19
1	A	90	LEU	17
1	A	148	THR	17
1	A	152	THR	16
1	A	188	LEU	14
1	A	169	ILE	14
1	A	225	LEU	13
1	A	53	LEU	13

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Mol	Chain	Res	Type	Models (Total)
1	A	79	THR	13
1	A	74	ILE	12
1	A	83	THR	12
1	A	180	LEU	12
1	A	63	SER	11
1	A	229	GLU	10
1	A	70	LYS	10
1	A	31	ILE	10
1	A	73	LEU	9
1	A	163	LEU	9
1	A	47	LYS	9
1	A	59	PHE	9
1	A	15	THR	8
1	A	28	ARG	8
1	A	162	GLN	8
1	A	215	ASP	8
1	A	192	LEU	8
1	A	49	LEU	7
1	A	239	LEU	7
1	A	82	GLN	7
1	A	9	THR	6
1	A	57	SER	6
1	A	207	GLN	6
1	A	23	LYS	6
1	A	30	GLU	6
1	A	34	TYR	6
1	A	21	ARG	6
1	A	27	LYS	5
1	A	166	LYS	5
1	A	75	SER	5
1	A	150	LYS	5
1	A	223	ASP	5
1	A	153	LYS	5
1	A	155	GLN	5
1	A	184	GLU	5
1	A	204	TYR	5
1	A	187	LYS	5
1	A	174	MET	4
1	A	197	LYS	4
1	A	37	LYS	4
1	A	145	SER	4
1	A	177	ARG	4

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Mol	Chain	Res	Type	Models (Total)
1	A	220	ARG	4
1	A	64	LYS	4
1	A	20	VAL	4
1	A	154	GLN	4
1	A	228	LYS	4
1	A	190	GLU	3
1	A	179	ILE	3
1	A	199	ILE	3
1	A	164	LYS	3
1	A	191	LYS	3
1	A	52	VAL	3
1	A	212	CYS	3
1	A	94	GLU	3
1	A	218	CYS	3
1	A	224	GLU	3
1	A	227	LYS	3
1	A	151	SER	3
1	A	97	VAL	3
1	A	167	MET	3
1	A	230	THR	3
1	A	84	GLU	2
1	A	146	VAL	2
1	A	50	ASP	2
1	A	214	ILE	2
1	A	236	LEU	2
1	A	144	TYR	2
1	A	147	LYS	2
1	A	158	GLU	2
1	A	60	VAL	2
1	A	48	ASP	2
1	A	91	THR	2
1	A	161	LYS	2
1	A	208	LEU	2
1	A	56	HIS	2
1	A	196	ILE	2
1	A	202	GLU	2
1	A	88	GLN	2
1	A	11	GLN	2
1	A	36	ASN	2
1	A	222	ILE	2
1	A	12	ILE	2
1	A	80	ASP	2

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Mol	Chain	Res	Type	Models (Total)
1	A	237	GLU	2
1	A	16	ASN	2
1	A	221	GLU	2
1	A	14	LEU	2
1	A	55	THR	2
1	A	160	ILE	2
1	A	235	SER	2
1	A	61	ASN	2
1	A	69	LYS	2
1	A	157	LEU	2
1	A	186	LYS	2
1	A	195	LEU	2
1	A	33	CYS	2
1	A	168	LYS	2
1	A	165	GLU	2
1	A	66	GLN	1
1	A	13	ARG	1
1	A	176	LEU	1
1	A	77	PHE	1
1	A	233	LYS	1
1	A	200	GLU	1
1	A	206	GLN	1
1	A	231	LYS	1
1	A	175	ARG	1
1	A	71	GLU	1
1	A	189	LYS	1
1	A	35	LYS	1
1	A	209	GLU	1
1	A	72	ASP	1
1	A	142	ILE	1
1	A	201	SER	1
1	A	51	GLU	1
1	A	96	GLN	1
1	A	211	VAL	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

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 74% for the well-defined parts and 69% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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	2498
Number of shifts mapped to atoms	2498
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	5

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	230	0.89 ± 0.09	Should be checked
$^{13}C_{\beta}$	217	1.55 ± 0.14	Should be checked
$^{13}C'$	228	2.40 ± 0.08	Should be applied
^{15}N	212	-0.13 ± 0.29	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 74%, i.e. 1879 atoms were assigned a chemical shift out of a possible 2549. 0 out of 35 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	830/889 (93%)	335/361 (93%)	337/354 (95%)	158/174 (91%)
Sidechain	1035/1567 (66%)	634/1012 (63%)	398/490 (81%)	3/65 (5%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	14/93 (15%)	14/45 (31%)	0/44 (0%)	0/4 (0%)
Overall	1879/2549 (74%)	983/1418 (69%)	735/888 (83%)	161/243 (66%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 69%, i.e. 2495 atoms were assigned a chemical shift out of a possible 3603. 0 out of 43 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	1120/1261 (89%)	450/511 (88%)	458/504 (91%)	212/246 (86%)
Sidechain	1353/2174 (62%)	830/1400 (59%)	520/681 (76%)	3/93 (3%)
Aromatic	22/168 (13%)	20/82 (24%)	1/75 (1%)	1/11 (9%)
Overall	2495/3603 (69%)	1300/1993 (65%)	979/1260 (78%)	216/350 (62%)

7.1.4 Statistically unusual chemical shifts (i)

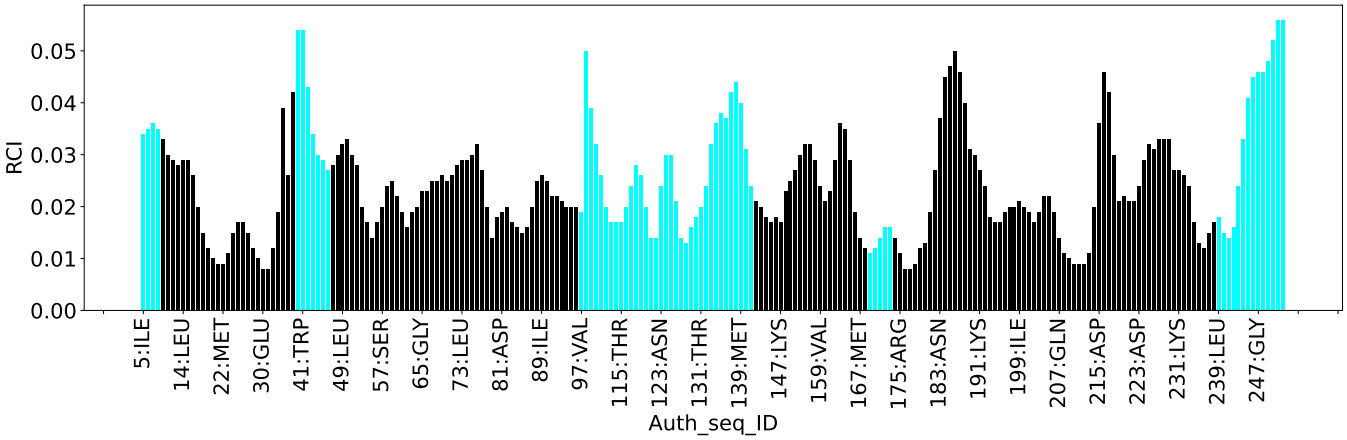
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, *ppm*	Expected range, *ppm*	Z-score
1	A	41	TRP	CZ2	7.38	107.20 – 121.33	-75.7
1	A	9	THR	HG1	5.17	0.08 – 2.19	19.1
1	A	15	THR	HG1	5.17	0.08 – 2.19	19.1
1	A	7	THR	HG1	5.16	0.08 – 2.19	19.0
1	A	189	LYS	CE	34.92	37.57 – 46.21	-8.1

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:


RCI
0.00
0.01
0.02
0.03
0.04
0.05
5:ILE
14:LEU
22:MET
30:GLU
41:TRP
49:LEU
57:SER
65:GLY
73:LEU
81:ASP
89:ILE
97:VAL
115:THR
123:ASN
131:THR
139:MET
147:LYS
159:VAL
167:MET
175:ARG
183:ASN
191:LYS
199:ILE
207:GLN
215:ASP
223:ASP
231:LYS
239:LEU
247:GLY
Auth_seq_ID

8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	2305
Intra-residue (|i-j|=0)	407
Sequential (|i-j|=1)	822
Medium range (|i-j|>1 and |i-j|<5)	523
Long range (|i-j|≥5)	481
Inter-chain	0
Hydrogen bond restraints	72
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	9.1
Number of long range restraints per residue[1]	2.0

[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)	118.2	0.2
0.2-0.5 (Medium)	224.7	0.5
>0.5 (Large)	403.8	5.99

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)

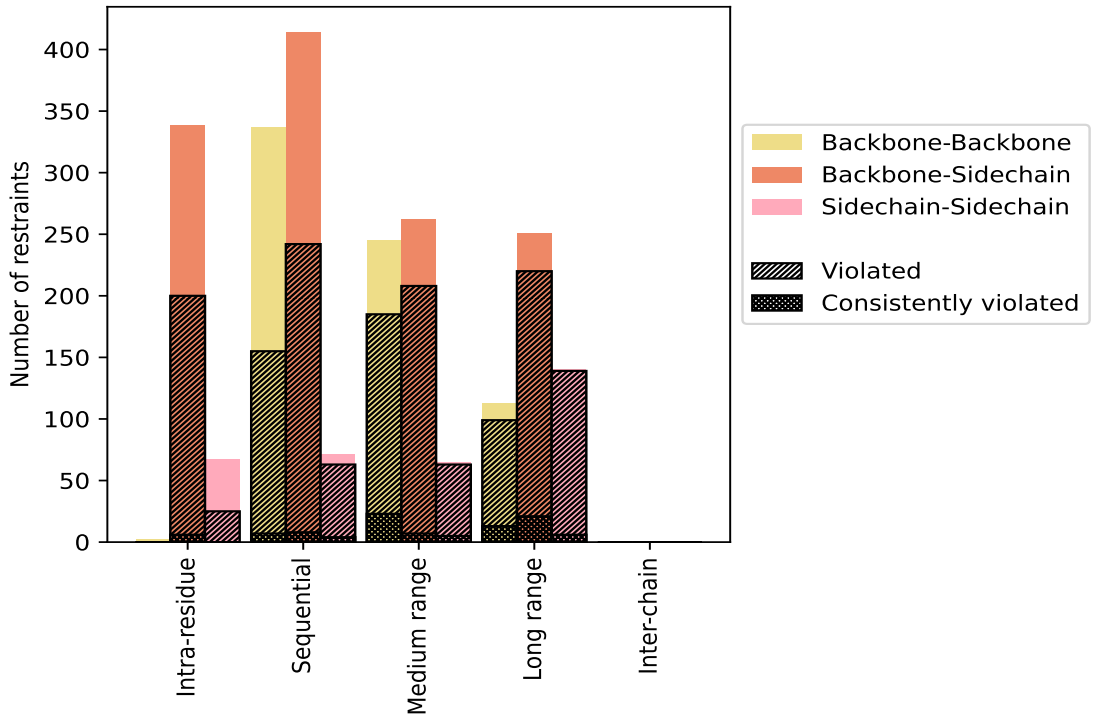
9.1 Summary of distance violations (i)

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)	407	17.7	225	55.3	9.8	6	1.5	0.3
Backbone-Backbone	2	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	338	14.7	200	59.2	8.7	6	1.8	0.3
Sidechain-Sidechain	67	2.9	25	37.3	1.1	0	0.0	0.0
Sequential (|i-j|=1)	822	35.7	460	56.0	20.0	19	2.3	0.8
Backbone-Backbone	337	14.6	155	46.0	6.7	7	2.1	0.3
Backbone-Sidechain	414	18.0	242	58.5	10.5	8	1.9	0.3
Sidechain-Sidechain	71	3.1	63	88.7	2.7	4	5.6	0.2
Medium range (|i-j|>1 & |i-j|<5)	523	22.7	415	79.3	18.0	35	6.7	1.5
Backbone-Backbone	245	10.6	185	75.5	8.0	23	9.4	1.0
Backbone-Sidechain	213	9.2	167	78.4	7.2	7	3.3	0.3
Sidechain-Sidechain	65	2.8	63	96.9	2.7	5	7.7	0.2
Long range (|i-j|≥5)	481	20.9	438	91.1	19.0	40	8.3	1.7
Backbone-Backbone	113	4.9	99	87.6	4.3	13	11.5	0.6
Backbone-Sidechain	228	9.9	200	87.7	8.7	21	9.2	0.9
Sidechain-Sidechain	140	6.1	139	99.3	6.0	6	4.3	0.3
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	72	3.1	61	84.7	2.6	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2305	100.0	1599	69.4	69.4	100	4.3	4.3
Backbone-Backbone	697	30.2	439	63.0	19.0	43	6.2	1.9
Backbone-Sidechain	1265	54.9	870	68.8	37.7	42	3.3	1.8
Sidechain-Sidechain	343	14.9	290	84.5	12.6	15	4.4	0.7

[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	89	215	228	259	0	791	0.83	4.35	0.72	0.59
2	74	209	207	255	0	745	0.81	4.69	0.73	0.57
3	76	186	219	250	0	731	0.78	3.77	0.69	0.51
4	83	225	209	247	0	764	0.76	4.71	0.73	0.5
5	75	186	208	262	0	731	0.79	5.23	0.71	0.58
6	79	196	207	247	0	729	0.74	4.61	0.65	0.52
7	76	214	222	251	0	763	0.78	3.82	0.71	0.55
8	86	201	212	253	0	752	0.74	4.47	0.64	0.53
9	66	193	210	258	0	727	0.77	5.99	0.73	0.52
10	81	216	220	244	0	761	0.81	5.47	0.75	0.57

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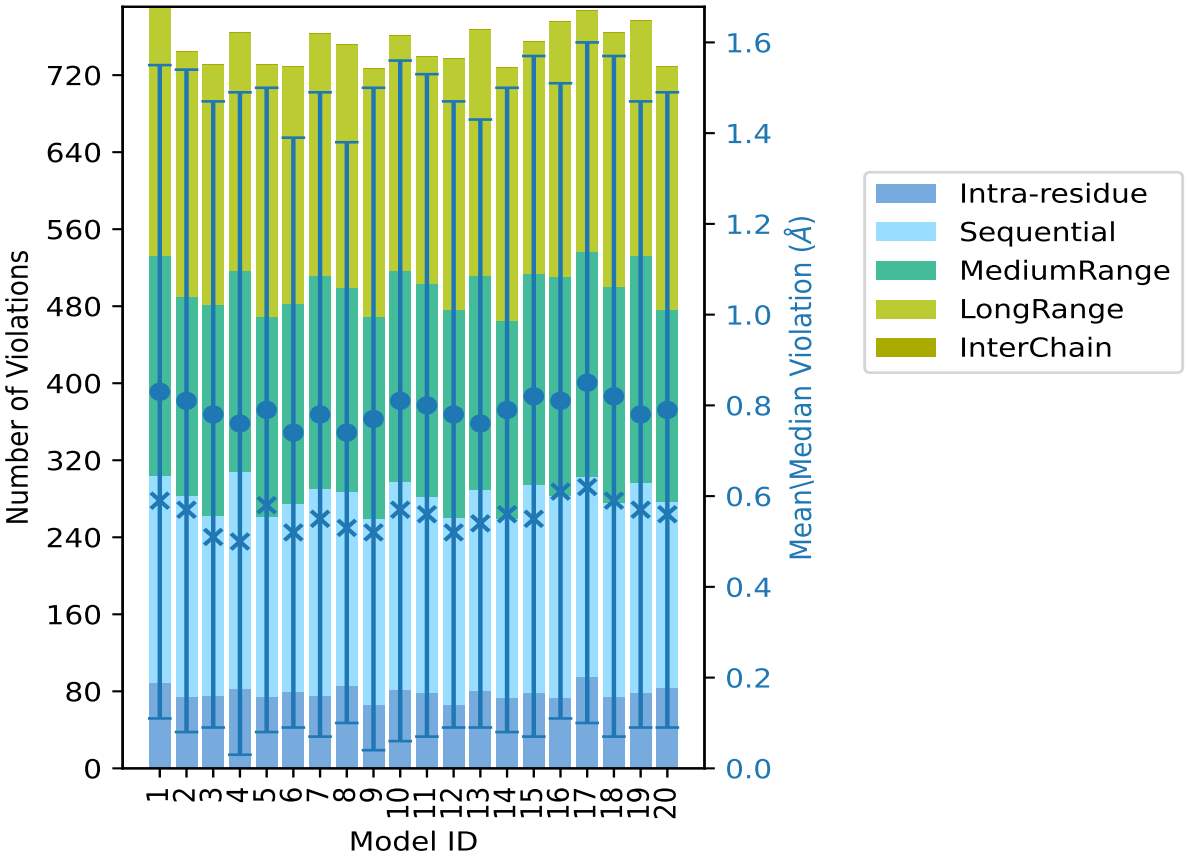
Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
11	79	203	221	236	0	739	0.8	4.66	0.73	0.56
12	66	194	216	261	0	737	0.78	4.07	0.69	0.52
13	81	208	223	255	0	767	0.76	5.14	0.67	0.54
14	74	185	206	263	0	728	0.79	5.16	0.71	0.56
15	78	216	219	242	0	755	0.82	4.18	0.75	0.55
16	73	210	228	265	0	776	0.81	4.5	0.7	0.61
17	95	208	233	251	0	787	0.85	5.1	0.75	0.62
18	74	202	224	264	0	764	0.82	5.96	0.75	0.59
19	78	219	235	245	0	777	0.78	4.6	0.69	0.57
20	84	193	199	253	0	729	0.79	4.22	0.7	0.56

[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

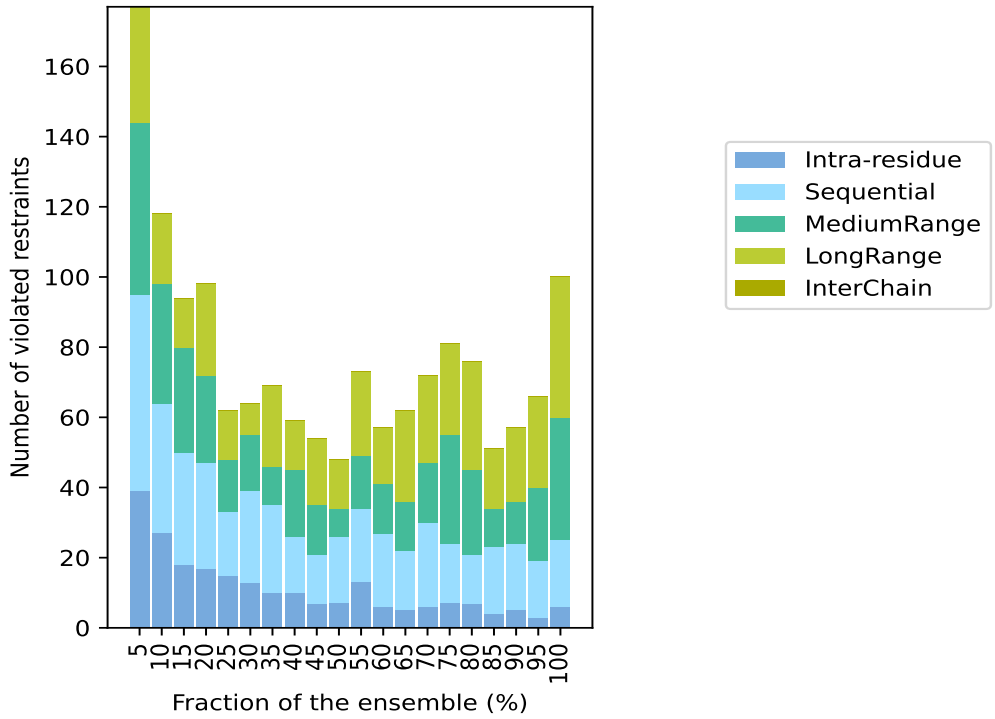
9.3 Distance violation statistics for the ensemble (i)

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, 695(IR:182, SQ:362, MR:108, LR:43, 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]	%
39	56	49	33	0	177	1	5.0
27	37	34	20	0	118	2	10.0
18	32	30	14	0	94	3	15.0
17	30	25	26	0	98	4	20.0
15	18	15	14	0	62	5	25.0
13	26	16	9	0	64	6	30.0
10	25	11	23	0	69	7	35.0
10	16	19	14	0	59	8	40.0
7	14	14	19	0	54	9	45.0
7	19	8	14	0	48	10	50.0
13	21	15	24	0	73	11	55.0
6	21	14	16	0	57	12	60.0
5	17	14	26	0	62	13	65.0
6	24	17	25	0	72	14	70.0
7	17	31	26	0	81	15	75.0
7	14	24	31	0	76	16	80.0
4	19	11	17	0	51	17	85.0
5	19	12	21	0	57	18	90.0
3	16	21	26	0	66	19	95.0
6	19	35	40	0	100	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

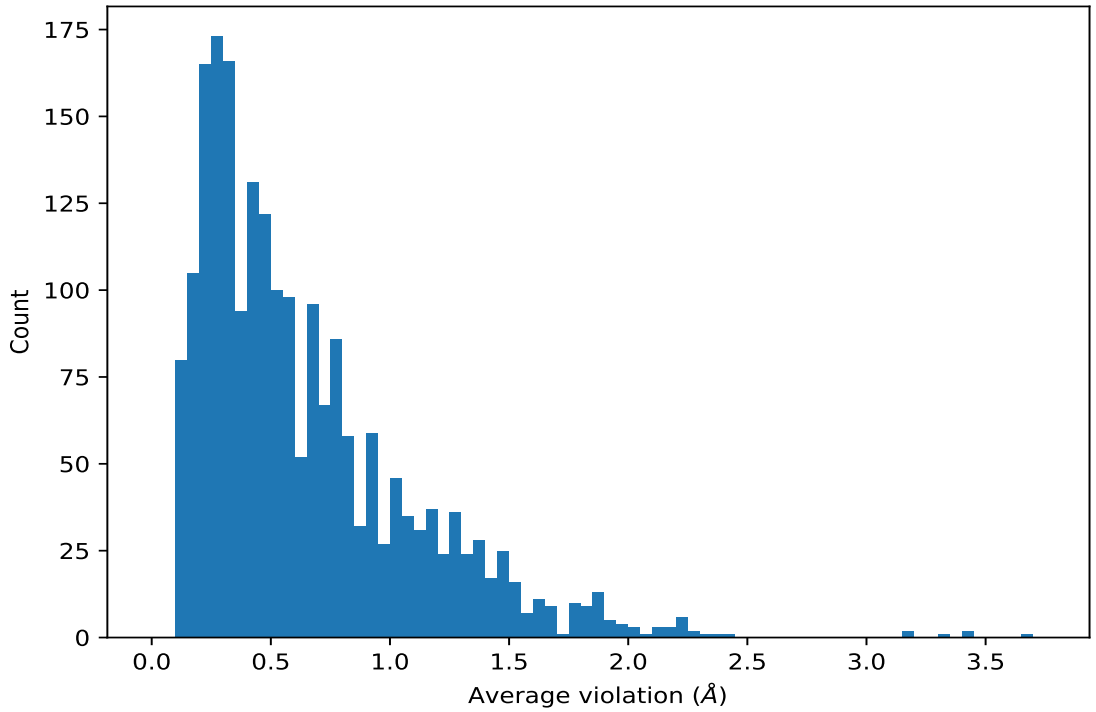
9.3.1 Bar graph : Distance violation statistics for the ensemble



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)
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	20	3.68	1.25	3.7
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	20	3.31	0.55	3.37
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	20	3.17	0.64	3.25
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	20	3.17	0.64	3.25
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	20	2.42	1.05	2.28
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	20	2.37	0.87	2.45
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	20	2.22	1.15	2.19
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	20	2.2	0.77	2.13
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	20	2.16	1.06	2.46
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	20	2.16	1.06	2.46
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	20	2.1	0.94	1.96
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	20	2.09	0.62	2.31
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	20	2.02	0.67	1.98
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	20	1.98	0.51	2.22
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	20	1.96	0.7	2.26
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	20	1.88	0.79	1.88

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	20	1.88	0.79	1.88
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	20	1.84	1.0	1.55
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	20	1.84	0.74	2.06
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	20	1.8	1.01	1.8
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	20	1.79	1.02	1.62
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	20	1.71	0.47	1.76
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	20	1.62	0.68	1.7
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	20	1.57	0.71	1.62
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	20	1.57	0.71	1.62
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	20	1.52	0.69	1.21
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	20	1.49	0.67	1.23
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	20	1.49	0.31	1.58
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	20	1.49	0.31	1.58
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	20	1.43	0.63	1.23
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	20	1.43	0.69	1.18
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	20	1.41	0.8	1.38
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	20	1.38	0.88	1.3
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	20	1.38	0.88	1.3
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	20	1.34	0.78	1.0
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	20	1.32	0.9	1.3
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	20	1.32	0.9	1.3
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	20	1.29	0.46	1.48
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	20	1.26	0.65	1.07
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	20	1.26	0.65	1.07
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	20	1.25	0.56	1.14
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	20	1.24	0.42	1.31
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	20	1.24	0.32	1.29
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	20	1.23	0.62	1.3
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	20	1.21	0.36	1.12
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	20	1.21	0.36	1.12
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	20	1.2	0.28	1.2
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	20	1.19	0.46	1.15
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	20	1.19	0.46	1.15
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	20	1.17	0.39	1.22
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	20	1.17	0.64	1.06
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	20	1.13	0.45	1.08
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	20	1.09	0.64	0.94
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	20	1.08	0.51	0.93
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	20	1.08	0.51	0.93
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	20	1.07	0.44	1.35
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	20	1.05	0.36	0.94
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	20	0.99	0.54	1.0

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	20	0.99	0.47	1.01
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	20	0.98	0.48	0.86
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	20	0.97	0.36	0.96
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	20	0.94	0.39	0.93
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	20	0.93	0.37	0.95
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	20	0.93	0.28	0.82
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	20	0.91	0.33	0.87
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	20	0.89	0.31	0.88
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	20	0.87	0.35	0.86
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	20	0.87	0.35	0.86
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	20	0.86	0.63	0.64
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	20	0.86	0.63	0.64
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	20	0.86	0.27	0.86
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	20	0.84	0.35	0.82
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	20	0.84	0.39	0.78
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	20	0.84	0.39	0.78
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	20	0.82	0.19	0.8
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	20	0.78	0.28	0.79
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	20	0.78	0.21	0.76
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	20	0.78	0.46	0.57
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	20	0.77	0.23	0.77
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	20	0.76	0.31	0.71
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	20	0.73	0.33	0.73
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	20	0.72	0.26	0.72
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	20	0.72	0.12	0.72
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	20	0.71	0.5	0.45
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	20	0.71	0.1	0.74
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	20	0.71	0.29	0.7
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	20	0.7	0.69	0.52
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	20	0.7	0.69	0.52
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	20	0.7	0.2	0.72
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	20	0.69	0.31	0.64
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	20	0.68	0.17	0.69
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	20	0.68	0.23	0.74
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	20	0.68	0.35	0.62
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	20	0.68	0.22	0.58
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	20	0.67	0.21	0.64
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	20	0.61	0.17	0.61
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	20	0.6	0.22	0.58
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	20	0.52	0.45	0.27
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	20	0.51	0.12	0.53
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	20	0.51	0.12	0.53

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	20	0.51	0.16	0.48
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	20	0.51	0.16	0.48
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	20	0.51	0.31	0.39
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	20	0.48	0.28	0.4
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	20	0.48	0.15	0.46
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	20	0.44	0.13	0.44
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	20	0.44	0.15	0.42
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	20	0.43	0.18	0.42
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	20	0.4	0.09	0.4
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	20	0.37	0.28	0.22
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	20	0.33	0.1	0.34
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	20	0.33	0.04	0.32
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	20	0.32	0.14	0.3
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	20	0.3	0.08	0.32
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	20	0.28	0.09	0.24
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	20	0.27	0.05	0.28
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	20	0.26	0.04	0.26
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	19	3.44	1.07	3.37
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	19	3.44	1.07	3.37
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	19	2.28	0.94	2.12
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	19	2.14	0.93	2.48
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	19	1.99	0.62	2.21
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	19	1.95	0.74	2.08
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	19	1.95	0.74	2.08
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	19	1.94	0.88	1.69
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	19	1.88	0.85	1.88
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	19	1.88	0.85	1.88
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	19	1.88	0.85	1.88
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	19	1.87	1.11	1.78
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	19	1.79	0.81	1.67
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	19	1.78	0.83	1.71
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	19	1.78	0.72	1.57
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	19	1.77	0.94	1.46
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	19	1.75	0.87	1.95
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	19	1.7	0.95	1.54
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	19	1.69	0.77	2.01
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	19	1.64	0.6	1.86
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	19	1.54	0.69	1.57
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	19	1.52	0.77	1.31
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	19	1.49	0.65	1.5
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	19	1.49	0.6	1.49
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	19	1.49	0.84	1.55

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	19	1.49	0.84	1.55
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	19	1.49	0.84	1.55
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	19	1.49	0.8	1.67
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	19	1.47	0.61	1.35
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	19	1.45	0.98	1.28
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	19	1.45	0.98	1.28
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	19	1.35	0.83	1.29
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	19	1.29	0.71	1.25
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	19	1.29	0.71	1.25
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	19	1.26	0.63	1.28
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	19	1.21	0.59	1.34
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	19	1.21	0.59	1.34
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	19	1.18	0.7	1.16
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	19	1.18	0.7	1.16
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	19	1.18	0.74	1.13
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	19	1.18	0.6	1.12
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	19	1.18	0.83	1.15
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	19	1.18	0.45	1.15
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	19	1.17	0.36	1.3
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	19	1.17	0.68	0.82
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	19	1.16	0.88	0.78
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	19	1.16	0.88	0.78
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	19	1.16	0.88	0.78
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	19	1.16	0.88	0.78
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	19	1.14	0.6	1.01
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	19	1.1	0.78	0.99
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	19	1.05	0.56	0.86
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	19	1.05	0.56	0.86
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	19	1.03	0.73	0.93
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	19	1.03	0.73	0.93
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	19	0.95	0.51	0.89
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	19	0.93	0.33	0.93
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	19	0.91	0.4	0.89
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	19	0.89	0.53	0.6
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	19	0.86	0.57	0.83
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	19	0.86	0.57	0.83
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	19	0.84	0.15	0.85
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	19	0.83	0.52	0.75
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	19	0.83	0.52	0.75
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	19	0.83	0.61	0.61
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	19	0.79	0.34	0.81
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	19	0.79	0.34	0.81

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	19	0.73	0.38	0.7
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	19	0.73	0.38	0.7
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	19	0.68	0.32	0.62
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	19	0.68	0.32	0.62
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	19	0.64	0.24	0.6
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	19	0.63	0.5	0.46
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	19	0.63	0.5	0.46
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	19	0.56	0.28	0.62
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	19	0.56	0.28	0.62
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	19	0.55	0.25	0.54
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	19	0.51	0.25	0.41
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	19	0.51	0.16	0.53
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	19	0.51	0.16	0.53
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	19	0.5	0.16	0.51
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	19	0.47	0.26	0.42
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	19	0.46	0.21	0.47
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	19	0.43	0.28	0.33
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	19	0.42	0.15	0.42
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	19	0.39	0.15	0.36
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	19	0.39	0.15	0.36
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	19	0.36	0.12	0.38
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	19	0.35	0.18	0.31
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	19	0.23	0.07	0.24
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	19	0.22	0.07	0.21
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	19	0.2	0.17	0.16
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	18	2.25	1.0	2.44
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	18	2.23	0.9	2.1
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	18	2.23	0.64	2.22
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	18	2.23	0.63	2.22
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	18	2.16	0.95	2.14
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	18	2.13	0.99	2.2
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	18	1.92	0.65	2.16
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	18	1.87	0.72	1.72
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	18	1.86	0.5	1.99
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	18	1.86	0.5	1.99
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	18	1.75	0.78	1.72
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	18	1.67	0.95	1.78
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	18	1.65	0.81	1.56
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	18	1.65	0.81	1.56
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	18	1.65	0.41	1.78
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	18	1.63	0.64	1.66
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	18	1.51	0.72	1.7

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	18	1.47	0.97	1.26
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	18	1.46	0.63	1.49
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	18	1.46	0.82	1.68
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	18	1.46	0.82	1.68
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	18	1.45	0.57	1.42
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	18	1.35	0.74	1.24
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	18	1.35	0.74	1.24
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	18	1.35	0.74	1.24
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	18	1.35	0.74	1.24
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	18	1.3	0.89	1.03
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	18	1.29	0.89	0.97
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	18	1.29	0.89	0.97
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	18	1.29	0.89	0.97
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	18	1.29	0.89	0.97
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	18	1.29	0.52	1.36
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	18	1.27	0.54	1.46
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	18	1.07	0.49	1.0
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	18	1.03	0.46	0.94
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	18	1.0	0.62	0.93
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	18	1.0	0.62	0.93
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	18	0.94	0.53	0.74
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	18	0.92	0.27	1.0
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	18	0.92	0.37	0.86
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	18	0.91	0.51	0.88
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	18	0.9	0.56	0.74
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	18	0.9	0.56	0.74
(1,710)	1:75:A:SER:H	1:79:A:THR:H	18	0.89	0.35	0.88
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	18	0.8	0.36	0.71
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	18	0.78	0.43	0.7
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	18	0.77	0.33	0.86
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	18	0.77	0.33	0.86
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	18	0.76	0.43	0.73
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	18	0.76	0.43	0.73
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	18	0.76	0.18	0.8
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	18	0.76	0.18	0.8
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	18	0.68	0.35	0.68
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	18	0.66	0.28	0.54
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	18	0.59	0.27	0.6
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	18	0.58	0.24	0.6
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	18	0.58	0.24	0.6
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	18	0.57	0.32	0.45
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	18	0.57	0.32	0.45

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	18	0.53	0.24	0.49
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	18	0.53	0.15	0.5
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	18	0.51	0.1	0.52
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	18	0.48	0.25	0.52
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	18	0.47	0.15	0.5
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	18	0.45	0.24	0.41
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	18	0.43	0.17	0.43
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	18	0.42	0.2	0.4
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	18	0.39	0.17	0.4
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	18	0.35	0.17	0.29
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	18	0.32	0.16	0.29
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	18	0.31	0.1	0.31
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	18	0.28	0.1	0.3
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	18	0.26	0.06	0.24
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	18	0.23	0.06	0.22
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	18	0.23	0.06	0.22
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	17	1.95	0.9	2.32
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	17	1.87	0.86	1.75
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	17	1.87	0.86	1.75
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	17	1.85	0.93	1.93
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	17	1.85	0.93	1.93
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	17	1.7	0.86	1.73
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	17	1.7	0.86	1.73
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	17	1.66	0.64	1.89
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	17	1.53	0.46	1.58
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	17	1.53	0.46	1.58
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	17	1.47	0.8	1.9
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	17	1.46	0.43	1.52
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	17	1.4	0.66	1.39
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	17	1.4	0.66	1.39
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	17	1.37	0.75	1.26
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	17	1.36	0.58	1.36
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	17	1.33	0.84	1.16
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	17	1.33	0.84	1.16
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	17	1.3	0.56	1.47
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	17	1.28	0.87	1.06
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	17	1.28	0.87	1.06
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	17	1.28	0.87	1.06
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	17	1.28	0.87	1.06
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	17	1.27	0.53	1.39
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	17	1.25	0.69	0.92
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	17	1.25	0.69	0.92

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	17	1.25	0.7	1.21
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	17	1.25	0.7	1.21
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	17	1.22	0.73	1.29
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	17	1.22	0.66	1.41
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	17	1.06	0.58	0.93
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	17	1.06	0.58	0.93
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	17	1.06	0.58	0.93
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	17	1.06	0.58	0.93
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	17	1.06	0.48	1.0
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	17	1.06	0.48	1.0
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	17	0.99	0.48	0.88
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	17	0.98	0.52	1.02
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	17	0.97	0.37	0.88
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	17	0.91	0.44	0.85
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	17	0.91	0.31	0.86
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	17	0.77	0.31	0.94
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	17	0.77	0.48	0.75
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	17	0.77	0.48	0.75
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	17	0.75	0.64	0.39
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	17	0.75	0.64	0.39
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	17	0.75	0.64	0.39
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	17	0.75	0.64	0.39
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	17	0.74	0.29	0.7
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	17	0.73	0.37	0.66
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	17	0.73	0.37	0.66
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	17	0.71	0.25	0.8
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	17	0.7	0.33	0.78
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	17	0.69	0.26	0.65
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	17	0.64	0.44	0.41
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	17	0.64	0.44	0.41
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	17	0.62	0.21	0.67
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	17	0.54	0.21	0.52
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	17	0.54	0.3	0.5
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	17	0.54	0.3	0.5
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	17	0.54	0.3	0.5
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	17	0.54	0.3	0.5
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	17	0.52	0.19	0.52
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	17	0.51	0.25	0.51
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	17	0.5	0.24	0.43
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	17	0.5	0.24	0.43
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	17	0.49	0.21	0.48
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	17	0.49	0.21	0.48

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	17	0.48	0.22	0.43
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	17	0.48	0.22	0.43
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	17	0.45	0.21	0.55
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	17	0.45	0.21	0.55
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	17	0.41	0.19	0.44
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	17	0.38	0.28	0.35
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	17	0.26	0.11	0.23
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	17	0.2	0.07	0.19
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	17	0.19	0.03	0.18
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	17	0.18	0.05	0.19
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	17	0.17	0.05	0.15
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	17	0.17	0.03	0.16
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	16	2.32	1.13	2.3
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	16	2.04	0.84	2.28
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	16	2.02	0.86	2.16
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	16	1.8	0.95	1.6
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	16	1.8	0.95	1.6
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	16	1.64	0.87	1.54
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	16	1.6	0.9	1.4
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	16	1.59	0.93	1.44
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	16	1.49	0.71	1.42
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	16	1.49	1.18	0.99
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	16	1.46	0.93	1.32
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	16	1.4	0.94	1.25
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	16	1.4	0.94	1.25
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	16	1.39	0.6	1.26
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	16	1.38	0.94	1.36
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	16	1.38	0.94	1.36
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	16	1.36	1.23	0.94
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	16	1.27	1.09	1.02
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	16	1.27	0.76	1.36
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	16	1.25	0.31	1.25
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	16	1.23	0.58	1.25
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	16	1.19	0.59	1.09
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	16	1.15	0.46	1.12
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	16	1.13	0.47	1.17
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	16	1.12	0.61	1.38
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	16	1.08	0.23	1.15
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	16	1.07	0.64	0.97
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	16	1.03	0.56	1.1
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	16	1.03	0.4	0.95
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	16	1.0	0.52	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	16	1.0	0.43	0.98
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	16	1.0	0.43	0.98
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	16	0.96	0.32	1.17
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	16	0.95	0.41	0.82
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	16	0.95	0.8	0.76
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	16	0.95	0.75	0.7
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	16	0.95	0.75	0.7
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	16	0.95	0.75	0.7
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	16	0.94	0.63	0.67
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	16	0.9	0.75	0.57
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	16	0.87	0.35	0.85
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	16	0.87	0.35	0.85
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	16	0.87	0.48	1.18
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	16	0.87	0.3	0.82
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	16	0.87	0.3	0.82
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	16	0.86	0.46	1.15
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	16	0.83	0.47	0.86
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	16	0.82	0.41	0.7
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	16	0.76	0.33	0.68
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	16	0.76	0.33	0.68
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	16	0.76	0.33	0.68
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	16	0.76	0.33	0.68
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	16	0.75	0.44	0.82
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	16	0.75	0.44	0.82
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	16	0.74	0.37	0.72
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	16	0.72	0.13	0.68
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	16	0.7	0.62	0.4
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	16	0.7	0.62	0.4
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	16	0.69	0.37	0.6
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	16	0.61	0.25	0.64
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	16	0.59	0.28	0.6
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	16	0.59	0.28	0.6
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	16	0.59	0.35	0.48
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	16	0.59	0.35	0.48
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	16	0.59	0.24	0.5
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	16	0.57	0.39	0.5
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	16	0.56	0.24	0.5
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	16	0.55	0.24	0.54
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	16	0.54	0.28	0.56
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	16	0.54	0.28	0.56
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	16	0.52	0.35	0.41
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	16	0.51	0.21	0.52

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	16	0.51	0.21	0.52
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	16	0.5	0.23	0.48
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	16	0.5	0.3	0.5
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	16	0.5	0.19	0.5
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	16	0.45	0.27	0.41
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	16	0.44	0.29	0.4
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	16	0.44	0.24	0.35
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	16	0.42	0.27	0.33
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	16	0.42	0.27	0.33
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	16	0.41	0.23	0.34
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	16	0.41	0.13	0.45
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	16	0.41	0.13	0.45
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	16	0.4	0.18	0.39
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	16	0.4	0.18	0.36
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	16	0.39	0.24	0.3
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	16	0.38	0.2	0.4
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	16	0.38	0.2	0.4
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	16	0.36	0.14	0.38
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	16	0.34	0.23	0.28
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	16	0.33	0.22	0.26
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	16	0.28	0.15	0.26
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	16	0.25	0.08	0.24
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	16	0.22	0.07	0.22
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	16	0.22	0.07	0.22
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	16	0.18	0.04	0.18
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	16	0.17	0.04	0.16
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	15	1.77	0.79	1.76
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	15	1.77	0.79	1.76
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	15	1.63	0.58	1.4
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	15	1.56	0.8	1.41
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	15	1.56	0.8	1.41
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	15	1.5	0.72	1.55
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	15	1.5	0.72	1.55
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	15	1.5	0.72	1.55
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	15	1.5	0.72	1.55
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	15	1.47	0.64	1.53
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	15	1.46	0.55	1.74
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	15	1.45	0.96	1.39
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	15	1.37	0.38	1.42
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	15	1.34	0.73	1.33
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	15	1.34	0.66	1.41
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	15	1.34	0.66	1.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	15	1.34	0.66	1.41
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	15	1.34	0.66	1.41
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	15	1.31	0.61	1.52
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	15	1.31	0.61	1.52
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	15	1.3	0.37	1.25
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	15	1.29	0.64	1.75
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	15	1.29	0.64	1.75
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	15	1.26	0.76	1.27
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	15	1.23	0.59	1.26
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	15	1.22	0.23	1.18
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	15	1.21	0.66	1.37
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	15	1.21	0.55	1.34
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	15	1.21	0.55	1.34
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	15	1.2	0.62	1.47
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	15	1.2	0.62	1.47
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	15	1.19	0.49	1.28
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	15	1.18	0.57	1.12
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	15	1.18	0.57	1.12
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	15	1.17	0.55	1.3
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	15	1.13	0.68	0.83
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	15	1.13	0.68	0.83
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	15	1.13	0.49	1.3
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	15	1.12	0.46	1.04
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	15	1.11	0.57	1.04
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	15	1.06	0.41	1.04
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	15	1.06	0.41	1.04
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	15	1.05	0.52	0.98
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	15	1.05	1.05	0.68
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	15	1.05	1.05	0.68
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	15	0.95	0.49	1.0
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	15	0.89	0.69	0.69
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	15	0.89	0.69	0.69
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	15	0.86	0.55	0.88
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	15	0.83	0.26	0.98
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	15	0.83	0.25	0.85
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	15	0.81	0.68	0.6
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	15	0.79	0.86	0.52
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	15	0.79	0.86	0.52
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	15	0.75	0.52	0.63
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	15	0.75	0.52	0.63
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	15	0.75	0.53	0.6
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	15	0.75	0.53	0.6

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	15	0.74	0.6	0.53
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	15	0.74	0.6	0.53
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	15	0.73	0.41	0.69
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	15	0.72	0.27	0.76
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	15	0.72	0.27	0.76
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	15	0.71	0.63	0.44
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	15	0.71	0.25	0.76
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	15	0.69	0.57	0.28
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	15	0.69	0.57	0.28
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	15	0.68	0.19	0.67
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	15	0.66	0.43	0.58
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	15	0.66	0.43	0.58
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	15	0.66	0.43	0.58
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	15	0.66	0.43	0.58
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	15	0.64	0.37	0.65
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	15	0.64	0.29	0.65
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	15	0.64	0.29	0.65
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	15	0.64	0.48	0.51
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	15	0.64	0.48	0.51
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	15	0.62	0.14	0.67
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	15	0.6	0.14	0.59
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	15	0.59	0.44	0.45
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	15	0.58	0.37	0.4
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	15	0.54	0.26	0.51
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	15	0.53	0.25	0.48
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	15	0.51	0.42	0.18
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	15	0.5	0.21	0.59
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	15	0.5	0.2	0.54
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	15	0.48	0.27	0.37
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	15	0.47	0.36	0.44
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	15	0.46	0.22	0.48
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	15	0.45	0.37	0.34
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	15	0.45	0.37	0.34
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	15	0.44	0.38	0.28
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	15	0.44	0.22	0.36
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	15	0.42	0.26	0.33
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	15	0.41	0.18	0.42
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	15	0.41	0.18	0.41
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	15	0.39	0.15	0.4
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	15	0.39	0.15	0.39
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	15	0.39	0.22	0.41
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	15	0.39	0.22	0.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	15	0.38	0.21	0.32
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	15	0.38	0.21	0.32
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	15	0.37	0.18	0.39
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	15	0.34	0.15	0.34
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	15	0.34	0.29	0.28
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	15	0.32	0.17	0.28
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	15	0.32	0.17	0.28
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	15	0.31	0.15	0.3
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	15	0.31	0.14	0.25
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	15	0.31	0.12	0.27
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	15	0.3	0.11	0.25
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	15	0.29	0.1	0.32
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	15	0.29	0.1	0.32
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	15	0.26	0.11	0.26
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	15	0.26	0.11	0.26
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	15	0.23	0.09	0.22
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	15	0.22	0.07	0.23
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	15	0.2	0.04	0.21
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	15	0.18	0.05	0.18
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	15	0.17	0.04	0.17
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	14	1.55	1.05	1.44
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	14	1.55	1.05	1.44
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	14	1.54	0.56	1.5
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	14	1.54	0.56	1.5
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	14	1.51	1.04	1.2
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	14	1.5	0.7	1.61
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	14	1.46	0.67	1.3
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	14	1.41	1.0	1.42
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	14	1.41	1.0	1.42
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	14	1.41	1.0	1.42
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	14	1.41	1.0	1.42
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	14	1.41	0.66	1.39
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	14	1.41	0.66	1.39
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	14	1.38	0.97	1.24
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	14	1.35	1.11	0.88
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	14	1.35	1.11	0.88
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	14	1.34	0.84	1.32
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	14	1.32	0.29	1.33
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	14	1.27	0.79	1.45
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	14	1.27	0.79	1.45
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	14	1.25	0.97	0.94
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	14	1.23	1.12	0.57

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	14	1.23	1.12	0.57
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	14	1.21	0.8	1.1
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	14	1.21	0.8	1.1
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	14	1.16	0.64	1.13
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	14	1.15	0.25	1.23
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	14	1.12	0.29	1.14
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	14	1.08	0.42	1.17
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	14	1.07	0.5	0.92
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	14	1.07	0.5	0.92
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	14	1.02	0.66	1.04
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	14	1.01	0.39	1.13
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	14	1.01	0.39	1.13
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	14	0.98	0.28	0.94
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	14	0.95	0.89	0.54
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	14	0.95	0.89	0.54
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	14	0.93	0.59	0.71
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	14	0.88	0.47	0.94
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	14	0.88	0.4	0.92
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	14	0.87	0.86	0.44
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	14	0.82	0.57	0.61
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	14	0.82	0.57	0.61
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	14	0.82	0.57	0.61
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	14	0.82	0.57	0.61
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	14	0.79	0.56	0.61
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	14	0.79	0.56	0.61
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	14	0.78	0.43	0.87
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	14	0.78	0.6	0.57
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	14	0.76	0.29	0.72
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	14	0.73	0.41	0.64
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	14	0.73	0.41	0.64
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	14	0.73	0.41	0.64
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	14	0.73	0.41	0.64
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	14	0.72	0.41	0.57
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	14	0.72	0.41	0.57
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	14	0.71	0.41	0.6
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	14	0.69	0.21	0.73
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	14	0.69	0.21	0.73
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	14	0.69	0.44	0.55
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	14	0.69	0.44	0.55
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	14	0.67	0.45	0.6
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	14	0.67	0.45	0.6
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	14	0.67	0.18	0.66

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	14	0.67	0.18	0.66
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	14	0.67	0.18	0.66
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	14	0.67	0.18	0.66
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	14	0.66	0.36	0.68
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	14	0.63	0.21	0.7
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	14	0.63	0.21	0.7
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	14	0.62	0.26	0.5
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	14	0.61	0.51	0.36
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	14	0.56	0.28	0.56
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	14	0.56	0.28	0.56
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	14	0.54	0.35	0.45
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	14	0.54	0.35	0.45
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	14	0.52	0.26	0.42
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	14	0.51	0.19	0.57
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	14	0.5	0.21	0.52
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	14	0.5	0.17	0.5
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	14	0.5	0.32	0.41
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	14	0.5	0.32	0.41
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	14	0.47	0.4	0.36
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	14	0.46	0.21	0.43
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	14	0.44	0.23	0.39
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	14	0.43	0.12	0.47
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	14	0.42	0.26	0.36
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	14	0.4	0.23	0.36
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	14	0.34	0.28	0.22
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	14	0.34	0.28	0.22
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	14	0.34	0.11	0.35
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	14	0.31	0.16	0.29
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	14	0.29	0.14	0.24
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	14	0.29	0.14	0.25
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	14	0.29	0.14	0.25
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	14	0.28	0.09	0.26
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	14	0.28	0.16	0.2
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	14	0.28	0.16	0.2
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	14	0.27	0.15	0.23
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	14	0.27	0.15	0.26
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	14	0.27	0.15	0.26
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	14	0.25	0.13	0.2
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	14	0.25	0.08	0.25
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	14	0.24	0.11	0.21
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	14	0.24	0.1	0.2
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	14	0.24	0.08	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	14	0.24	0.08	0.21
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	14	0.23	0.09	0.21
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	14	0.23	0.09	0.21
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	14	0.23	0.09	0.21
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	14	0.17	0.04	0.16
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	13	2.24	0.79	2.51
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	13	1.82	1.29	1.36
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	13	1.82	1.29	1.36
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	13	1.68	1.12	1.08
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	13	1.65	1.46	1.03
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	13	1.65	1.46	1.03
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	13	1.52	0.82	1.52
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	13	1.36	0.43	1.43
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	13	1.33	0.5	1.43
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	13	1.33	0.5	1.43
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	13	1.33	0.65	1.25
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	13	1.25	0.3	1.34
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	13	1.14	0.38	1.13
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	13	1.14	0.46	1.0
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	13	1.08	0.83	0.79
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	13	1.08	0.83	0.79
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	13	1.08	0.83	0.79
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	13	1.08	0.83	0.79
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	13	1.07	0.63	0.94
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	13	1.03	0.45	0.83
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	13	1.02	0.57	1.0
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	13	1.02	0.57	1.0
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	13	1.0	0.54	0.89
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	13	1.0	0.34	0.96
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	13	0.97	0.55	1.08
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	13	0.97	0.41	0.94
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	13	0.97	0.41	0.94
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	13	0.96	0.39	0.99
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	13	0.96	0.45	0.92
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	13	0.92	0.46	0.88
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	13	0.91	0.34	0.87
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	13	0.9	0.35	1.07
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	13	0.83	0.44	1.0
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	13	0.83	0.44	1.0
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	13	0.81	0.78	0.73
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	13	0.81	0.78	0.73
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	13	0.79	0.35	0.69

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	13	0.79	0.35	0.69
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	13	0.78	0.37	0.86
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	13	0.78	0.37	0.86
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	13	0.76	0.5	0.6
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	13	0.75	0.4	0.73
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	13	0.75	0.4	0.73
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	13	0.75	0.51	0.83
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	13	0.75	0.51	0.83
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	13	0.72	0.31	0.56
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	13	0.72	0.31	0.56
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	13	0.71	0.36	0.63
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	13	0.7	0.41	0.68
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	13	0.7	0.41	0.68
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	13	0.69	0.39	0.63
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	13	0.66	0.35	0.47
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	13	0.64	0.3	0.66
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	13	0.63	0.34	0.6
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	13	0.62	0.45	0.45
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	13	0.62	0.45	0.45
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	13	0.59	0.3	0.69
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	13	0.55	0.28	0.6
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	13	0.52	0.22	0.6
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	13	0.52	0.22	0.6
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	13	0.5	0.18	0.45
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	13	0.48	0.27	0.48
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	13	0.44	0.23	0.38
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	13	0.44	0.23	0.38
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	13	0.44	0.16	0.45
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	13	0.43	0.1	0.43
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	13	0.41	0.34	0.27
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	13	0.41	0.34	0.27
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	13	0.4	0.16	0.43
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	13	0.4	0.16	0.43
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	13	0.4	0.22	0.33
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	13	0.39	0.2	0.29
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	13	0.37	0.16	0.4
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	13	0.35	0.12	0.33
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	13	0.34	0.2	0.34
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	13	0.33	0.14	0.35
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	13	0.32	0.23	0.22
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	13	0.3	0.13	0.25
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	13	0.3	0.08	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	13	0.3	0.08	0.29
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	13	0.3	0.08	0.31
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	13	0.28	0.1	0.27
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	13	0.26	0.15	0.23
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	13	0.22	0.1	0.17
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	12	1.78	1.3	1.32
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	12	1.53	1.24	1.54
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	12	1.18	0.6	1.18
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	12	1.18	0.6	1.18
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	12	1.18	0.6	1.18
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	12	1.18	0.6	1.18
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	12	1.14	0.72	1.01
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	12	1.14	0.72	1.01
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	12	1.11	0.7	1.32
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	12	1.11	0.7	1.32
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	12	1.11	0.7	1.32
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	12	1.11	0.7	1.32
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	12	1.11	0.76	0.98
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	12	1.11	0.76	0.98
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	12	1.09	0.71	1.18
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	12	1.09	0.71	1.18
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	12	1.04	0.8	0.86
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	12	1.04	0.8	0.86
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	12	1.04	0.8	0.86
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	12	1.04	0.8	0.86
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	12	0.98	0.58	0.92
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	12	0.98	0.58	0.92
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	12	0.96	0.53	1.06
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	12	0.94	0.54	0.84
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	12	0.94	0.54	0.84
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	12	0.9	0.37	0.88
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	12	0.9	0.37	0.88
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	12	0.89	0.06	0.9
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	12	0.87	0.3	0.89
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	12	0.86	0.54	0.7
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	12	0.86	0.23	0.86
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	12	0.83	0.33	0.88
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	12	0.83	0.33	0.88
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	12	0.83	0.33	0.88
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	12	0.83	0.33	0.88
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	12	0.82	0.26	0.8
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	12	0.82	0.26	0.8

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	12	0.8	0.3	0.73
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	12	0.73	0.17	0.76
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	12	0.73	0.17	0.76
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	12	0.72	0.25	0.73
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	12	0.7	0.43	0.7
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	12	0.66	0.35	0.59
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	12	0.66	0.35	0.59
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	12	0.65	0.21	0.66
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	12	0.61	0.58	0.26
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	12	0.61	0.28	0.47
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	12	0.6	0.11	0.62
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	12	0.57	0.09	0.58
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	12	0.55	0.35	0.48
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	12	0.54	0.23	0.53
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	12	0.53	0.26	0.49
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	12	0.53	0.29	0.52
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	12	0.53	0.29	0.52
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	12	0.53	0.29	0.52
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	12	0.53	0.29	0.52
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	12	0.51	0.21	0.52
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	12	0.5	0.41	0.42
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	12	0.5	0.41	0.42
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	12	0.49	0.28	0.44
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	12	0.47	0.14	0.48
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	12	0.44	0.22	0.41
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	12	0.43	0.28	0.38
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	12	0.43	0.25	0.36
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	12	0.43	0.25	0.36
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	12	0.43	0.23	0.31
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	12	0.37	0.16	0.32
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	12	0.37	0.16	0.32
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	12	0.35	0.15	0.38
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	12	0.35	0.15	0.38
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	12	0.33	0.09	0.36
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	12	0.32	0.25	0.24
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	12	0.31	0.22	0.21
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	12	0.31	0.22	0.21
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	12	0.3	0.13	0.32
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	12	0.29	0.13	0.24
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	12	0.29	0.15	0.26
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	12	0.29	0.15	0.26
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	12	0.28	0.16	0.22

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	12	0.28	0.16	0.22
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	12	0.27	0.19	0.2
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	12	0.26	0.16	0.21
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	12	0.26	0.1	0.25
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	12	0.25	0.1	0.24
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	12	0.23	0.08	0.21
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	12	0.23	0.09	0.22
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	12	0.22	0.07	0.22
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	12	0.2	0.07	0.18
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	12	0.19	0.07	0.16
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	12	0.15	0.04	0.15
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	12	0.12	0.02	0.12
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	11	1.97	1.04	1.9
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	11	1.42	0.72	1.39
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	11	1.26	0.45	1.44
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	11	1.17	0.69	1.03
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	11	1.17	0.69	1.03
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	11	1.17	0.66	1.03
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	11	1.16	0.33	1.21
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	11	1.13	0.16	1.15
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	11	1.11	0.46	1.17
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	11	1.11	0.46	1.17
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	11	1.05	0.6	1.01
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	11	1.02	0.5	1.05
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	11	1.0	0.33	1.17
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	11	1.0	0.33	1.17
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	11	0.99	0.72	0.77
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	11	0.99	0.72	0.77
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	11	0.97	0.19	1.02
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	11	0.92	0.69	0.57
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	11	0.84	0.29	0.88
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	11	0.81	0.3	0.76
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	11	0.8	0.7	0.48
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	11	0.8	0.7	0.48
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	11	0.8	0.7	0.48
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	11	0.8	0.7	0.48
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	11	0.76	0.3	0.68
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	11	0.76	0.47	0.69
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	11	0.76	0.31	0.69
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	11	0.76	0.31	0.69
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	11	0.73	0.26	0.82
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	11	0.71	0.45	0.64

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	11	0.71	0.45	0.64
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	11	0.71	0.45	0.64
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	11	0.71	0.45	0.64
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	11	0.71	0.31	0.75
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	11	0.69	0.43	0.58
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	11	0.68	0.76	0.5
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	11	0.68	0.31	0.74
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	11	0.68	0.31	0.74
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	11	0.67	0.36	0.52
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	11	0.67	0.36	0.52
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	11	0.64	0.35	0.86
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	11	0.61	0.1	0.62
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	11	0.59	0.2	0.63
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	11	0.59	0.2	0.63
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	11	0.58	0.36	0.52
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	11	0.58	0.36	0.52
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	11	0.57	0.25	0.53
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	11	0.54	0.34	0.36
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	11	0.53	0.38	0.38
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	11	0.53	0.38	0.38
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	11	0.53	0.3	0.48
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	11	0.53	0.3	0.48
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	11	0.5	0.21	0.56
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	11	0.49	0.31	0.36
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	11	0.49	0.31	0.36
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	11	0.48	0.16	0.53
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	11	0.48	0.32	0.3
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	11	0.46	0.24	0.43
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	11	0.46	0.31	0.42
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	11	0.46	0.31	0.42
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	11	0.45	0.12	0.49
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	11	0.44	0.21	0.39
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	11	0.43	0.27	0.39
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	11	0.43	0.18	0.34
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	11	0.43	0.18	0.34
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	11	0.43	0.18	0.34
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	11	0.43	0.18	0.34
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	11	0.42	0.16	0.37
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	11	0.42	0.16	0.37
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	11	0.41	0.36	0.17
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	11	0.41	0.36	0.17
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	11	0.4	0.16	0.41

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	11	0.4	0.17	0.34
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	11	0.39	0.17	0.32
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	11	0.39	0.17	0.32
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	11	0.38	0.2	0.42
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	11	0.38	0.2	0.42
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	11	0.38	0.18	0.4
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	11	0.37	0.19	0.36
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	11	0.36	0.24	0.32
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	11	0.36	0.24	0.32
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	11	0.36	0.26	0.24
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	11	0.36	0.26	0.24
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	11	0.35	0.25	0.32
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	11	0.35	0.17	0.33
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	11	0.35	0.17	0.33
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	11	0.35	0.18	0.29
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	11	0.35	0.18	0.29
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	11	0.35	0.15	0.3
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	11	0.34	0.19	0.31
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	11	0.34	0.15	0.39
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	11	0.34	0.12	0.28
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	11	0.33	0.22	0.27
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	11	0.33	0.23	0.3
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	11	0.33	0.23	0.3
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	11	0.3	0.19	0.24
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	11	0.29	0.12	0.23
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	11	0.29	0.06	0.28
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	11	0.28	0.09	0.28
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	11	0.25	0.15	0.17
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	11	0.25	0.09	0.23
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	11	0.23	0.08	0.22
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	11	0.22	0.07	0.23
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	11	0.17	0.04	0.16
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	11	0.17	0.04	0.16
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	11	0.14	0.02	0.14
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	11	0.13	0.03	0.13
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	10	1.66	0.84	1.7
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	10	1.66	0.84	1.7
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	10	1.14	0.86	0.74
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	10	1.0	0.37	0.96
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	10	1.0	0.37	0.96
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	10	1.0	0.37	0.96
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	10	1.0	0.37	0.96

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	10	0.85	0.64	0.73
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	10	0.81	0.4	0.8
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	10	0.77	0.27	0.87
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	10	0.77	0.53	0.58
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	10	0.77	0.53	0.58
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	10	0.77	0.53	0.58
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	10	0.77	0.53	0.58
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	10	0.74	0.26	0.71
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	10	0.74	0.26	0.71
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	10	0.74	0.24	0.74
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	10	0.74	0.24	0.74
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	10	0.7	0.6	0.38
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	10	0.69	0.53	0.47
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	10	0.68	0.2	0.65
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	10	0.64	0.21	0.55
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	10	0.64	0.34	0.48
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	10	0.64	0.36	0.88
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	10	0.62	0.39	0.44
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	10	0.62	0.39	0.44
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	10	0.6	0.54	0.38
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	10	0.6	0.54	0.38
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	10	0.59	0.38	0.54
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	10	0.57	0.24	0.6
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	10	0.57	0.3	0.46
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	10	0.52	0.41	0.4
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	10	0.52	0.41	0.4
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	10	0.51	0.21	0.46
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	10	0.51	0.21	0.46
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	10	0.49	0.36	0.28
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	10	0.48	0.22	0.41
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	10	0.48	0.31	0.44
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	10	0.45	0.21	0.43
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	10	0.45	0.06	0.47
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	10	0.42	0.02	0.42
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	10	0.41	0.26	0.36
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	10	0.41	0.25	0.38
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	10	0.41	0.28	0.28
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	10	0.36	0.11	0.36
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	10	0.35	0.11	0.32
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	10	0.35	0.11	0.32
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	10	0.35	0.4	0.2
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	10	0.35	0.4	0.2

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	10	0.35	0.13	0.38
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	10	0.33	0.16	0.36
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	10	0.33	0.16	0.36
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	10	0.33	0.11	0.35
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	10	0.33	0.06	0.32
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	10	0.32	0.19	0.27
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	10	0.3	0.1	0.32
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	10	0.29	0.09	0.28
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	10	0.28	0.1	0.27
(1,463)	1:55:A:THR:H	1:57:A:SER:H	10	0.27	0.11	0.3
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	10	0.27	0.09	0.25
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	10	0.27	0.13	0.24
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	10	0.25	0.05	0.24
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	10	0.24	0.12	0.2
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	10	0.24	0.12	0.22
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	10	0.22	0.05	0.22
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	10	0.22	0.05	0.22
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	10	0.2	0.09	0.19
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	10	0.2	0.07	0.2
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	10	0.17	0.04	0.16
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	9	1.47	0.79	0.95
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	9	1.43	1.16	1.16
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	9	1.43	1.16	1.16
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	9	1.31	0.79	1.88
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	9	1.31	0.79	1.88
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	9	0.94	0.67	0.77
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	9	0.94	0.67	0.77
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	9	0.94	0.67	0.77
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	9	0.94	0.67	0.77
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	9	0.93	0.6	0.88
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	9	0.91	0.64	0.82
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	9	0.9	0.57	0.87
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	9	0.9	0.57	0.87
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	9	0.85	0.38	0.77
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	9	0.82	0.45	1.02
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	9	0.81	0.42	0.94
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	9	0.81	0.42	0.94
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	9	0.8	0.26	0.93
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	9	0.8	0.26	0.93
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	9	0.78	0.6	0.34
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	9	0.78	0.6	0.34
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	9	0.76	0.52	0.63

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	9	0.76	0.43	0.5
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	9	0.76	0.43	0.5
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	9	0.75	0.46	0.74
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	9	0.75	0.46	0.74
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	9	0.73	0.73	0.52
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	9	0.73	0.73	0.52
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	9	0.72	0.22	0.79
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	9	0.69	0.35	0.51
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	9	0.67	0.55	0.54
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	9	0.67	0.55	0.54
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	9	0.66	0.74	0.44
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	9	0.65	0.36	0.51
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	9	0.65	0.36	0.51
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	9	0.62	0.23	0.64
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	9	0.61	0.47	0.51
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	9	0.61	0.47	0.51
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	9	0.61	0.47	0.51
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	9	0.61	0.47	0.51
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	9	0.61	0.45	0.45
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	9	0.6	0.25	0.58
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	9	0.59	0.32	0.44
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	9	0.59	0.32	0.44
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	9	0.58	0.22	0.5
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	9	0.57	0.47	0.39
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	9	0.57	0.47	0.39
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	9	0.56	0.27	0.49
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	9	0.56	0.27	0.49
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	9	0.54	0.49	0.26
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	9	0.52	0.28	0.45
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	9	0.52	0.28	0.45
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	9	0.5	0.35	0.38
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	9	0.47	0.24	0.44
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	9	0.47	0.24	0.44
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	9	0.46	0.26	0.42
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	9	0.46	0.26	0.42
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	9	0.46	0.19	0.41
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	9	0.46	0.19	0.41
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	9	0.45	0.2	0.39
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	9	0.45	0.2	0.39
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	9	0.45	0.17	0.42
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	9	0.44	0.27	0.46
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	9	0.43	0.24	0.64

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	9	0.41	0.34	0.2
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	9	0.41	0.34	0.2
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	9	0.39	0.27	0.29
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	9	0.39	0.23	0.31
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	9	0.37	0.27	0.27
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	9	0.32	0.18	0.21
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	9	0.32	0.19	0.28
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	9	0.3	0.08	0.28
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	9	0.3	0.14	0.28
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	9	0.29	0.14	0.29
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	9	0.29	0.14	0.29
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	9	0.29	0.14	0.29
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	9	0.29	0.14	0.29
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	9	0.27	0.12	0.22
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	9	0.27	0.12	0.22
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	9	0.26	0.13	0.27
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	9	0.24	0.13	0.18
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	9	0.24	0.13	0.18
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	9	0.22	0.1	0.19
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	9	0.22	0.1	0.19
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	9	0.22	0.08	0.22
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	9	0.19	0.09	0.15
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	9	0.17	0.05	0.16
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	9	0.17	0.05	0.16
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	9	0.15	0.04	0.13
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	9	0.14	0.03	0.12
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	8	1.8	0.61	1.88
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	8	1.8	0.61	1.88
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	8	1.22	0.8	0.99
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	8	1.18	0.75	1.44
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	8	1.18	0.75	1.44
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	8	1.15	0.7	1.16
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	8	1.04	0.97	0.7
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	8	1.04	0.97	0.7
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	8	1.04	0.97	0.7
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	8	1.04	0.97	0.7
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	8	0.95	0.87	0.55
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	8	0.95	0.87	0.55
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	8	0.94	0.59	1.37
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	8	0.94	0.59	1.37
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	8	0.9	0.48	0.88
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	8	0.84	0.63	0.74

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	8	0.84	0.63	0.74
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	8	0.84	0.63	0.74
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	8	0.84	0.63	0.74
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	8	0.83	0.41	0.84
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	8	0.77	0.4	0.8
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	8	0.74	0.5	0.62
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	8	0.68	0.18	0.68
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	8	0.66	0.44	0.54
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	8	0.62	0.26	0.55
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	8	0.62	0.26	0.55
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	8	0.62	0.26	0.55
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	8	0.62	0.26	0.55
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	8	0.62	0.35	0.64
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	8	0.57	0.5	0.42
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	8	0.57	0.5	0.42
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	8	0.52	0.22	0.44
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	8	0.52	0.22	0.44
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	8	0.51	0.28	0.56
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	8	0.51	0.48	0.31
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	8	0.49	0.12	0.56
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	8	0.49	0.15	0.54
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	8	0.48	0.47	0.29
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	8	0.48	0.47	0.29
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	8	0.48	0.21	0.45
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	8	0.47	0.19	0.47
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	8	0.46	0.23	0.46
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	8	0.46	0.01	0.46
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	8	0.45	0.24	0.38
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	8	0.45	0.13	0.5
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	8	0.45	0.15	0.5
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	8	0.45	0.28	0.42
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	8	0.45	0.28	0.42
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	8	0.45	0.16	0.41
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	8	0.43	0.16	0.48
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	8	0.43	0.16	0.48
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	8	0.38	0.24	0.3
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	8	0.36	0.26	0.24
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	8	0.36	0.26	0.24
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	8	0.34	0.21	0.28
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	8	0.34	0.21	0.28
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	8	0.34	0.15	0.3
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	8	0.34	0.26	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	8	0.34	0.26	0.21
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	8	0.34	0.17	0.3
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	8	0.33	0.14	0.34
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	8	0.33	0.24	0.22
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	8	0.32	0.16	0.3
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	8	0.32	0.16	0.3
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	8	0.31	0.21	0.22
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	8	0.31	0.16	0.26
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	8	0.31	0.16	0.26
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	8	0.31	0.18	0.24
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	8	0.31	0.18	0.24
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	8	0.31	0.05	0.33
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	8	0.29	0.12	0.24
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	8	0.29	0.12	0.24
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	8	0.29	0.13	0.3
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	8	0.29	0.13	0.3
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	8	0.29	0.13	0.3
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	8	0.29	0.17	0.18
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	8	0.28	0.16	0.22
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	8	0.28	0.14	0.26
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	8	0.27	0.09	0.28
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	8	0.27	0.09	0.28
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	8	0.27	0.13	0.24
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	8	0.27	0.13	0.24
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	8	0.26	0.17	0.19
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	8	0.22	0.09	0.19
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	8	0.22	0.09	0.19
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	8	0.21	0.13	0.16
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	8	0.21	0.08	0.2
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	8	0.21	0.16	0.16
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	8	0.2	0.06	0.21
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	8	0.2	0.12	0.16
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	8	0.2	0.08	0.17
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	8	0.19	0.04	0.18
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	8	0.19	0.08	0.16
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	8	0.16	0.05	0.15
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	8	0.16	0.05	0.15
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	8	0.16	0.03	0.16
(1,306)	1:31:A:ILE:HG23	1:58:A:VAL:HB	7	1.44	0.83	1.19
(1,307)	1:31:A:ILE:HG23	1:59:A:PHE:H	7	1.14	0.38	1.07
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB2	7	1.0	1.13	0.62
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB3	7	1.0	1.13	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,703)	1:74:A:ILE:HD13	1:79:A:THR:HA	7	0.92	0.52	0.68
(1,339)	1:38:A:VAL:HG13	1:39:A:VAL:H	7	0.91	0.27	0.97
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG13	7	0.9	0.33	0.95
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG23	7	0.9	0.33	0.95
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB2	7	0.82	0.58	0.8
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB3	7	0.82	0.58	0.8
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	7	0.81	0.41	0.58
(1,1349)	1:162:A:GLN:HG2	1:163:A:LEU:HA	7	0.81	0.41	0.58
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	7	0.81	0.41	0.58
(1,1198)	1:140:A:LYS:H	1:143:A:HIS:H	7	0.77	0.36	0.61
(1,1024)	1:118:A:ALA:HB3	1:132:A:VAL:H	7	0.76	0.34	0.91
(1,452)	1:53:A:LEU:HD13	1:56:A:HIS:HA	7	0.76	0.59	0.58
(1,452)	1:53:A:LEU:HD23	1:56:A:HIS:HA	7	0.76	0.59	0.58
(2,43)	1:151:A:SER:O	1:155:A:GLN:H	7	0.74	0.67	0.31
(1,1688)	1:193:A:LYS:HB2	1:198:A:VAL:HG23	7	0.71	0.42	0.66
(1,1688)	1:193:A:LYS:HB3	1:198:A:VAL:HG23	7	0.71	0.42	0.66
(2,36)	1:112:A:ASP:O	1:116:A:ILE:H	7	0.68	0.32	0.74
(1,292)	1:30:A:GLU:HB2	1:58:A:VAL:HG23	7	0.66	0.24	0.72
(1,292)	1:30:A:GLU:HB3	1:58:A:VAL:HG23	7	0.66	0.24	0.72
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	7	0.63	0.28	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	7	0.63	0.28	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	7	0.63	0.28	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	7	0.63	0.28	0.53
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB2	7	0.62	0.47	0.35
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB3	7	0.62	0.47	0.35
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB2	7	0.62	0.47	0.35
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB3	7	0.62	0.47	0.35
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG2	7	0.6	0.6	0.32
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG3	7	0.6	0.6	0.32
(1,1209)	1:142:A:ILE:H	1:143:A:HIS:H	7	0.6	0.28	0.54
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB2	7	0.58	0.23	0.65
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB3	7	0.58	0.23	0.65
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG2	7	0.58	0.28	0.59
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG3	7	0.58	0.28	0.59
(1,142)	1:20:A:VAL:HB	1:89:A:ILE:HG23	7	0.57	0.33	0.75
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG13	7	0.57	0.31	0.48
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG23	7	0.57	0.31	0.48
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	7	0.56	0.33	0.32
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	7	0.56	0.33	0.32
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	7	0.56	0.33	0.32
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	7	0.56	0.33	0.32
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD2	7	0.54	0.2	0.53

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD3	7	0.54	0.2	0.53
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG2	7	0.53	0.18	0.62
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG3	7	0.53	0.18	0.62
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG2	7	0.53	0.18	0.62
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG3	7	0.53	0.18	0.62
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB2	7	0.5	0.29	0.44
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB3	7	0.5	0.29	0.44
(1,1443)	1:175:A:ARG:HG2	1:211:A:VAL:HG13	7	0.47	0.33	0.36
(1,1443)	1:175:A:ARG:HG3	1:211:A:VAL:HG13	7	0.47	0.33	0.36
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD2	7	0.46	0.27	0.4
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD3	7	0.46	0.27	0.4
(1,1803)	1:202:A:GLU:HB2	1:248:A:ASP:H	7	0.46	0.24	0.49
(1,1803)	1:202:A:GLU:HB3	1:248:A:ASP:H	7	0.46	0.24	0.49
(1,414)	1:49:A:LEU:HA	1:52:A:VAL:HA	7	0.46	0.21	0.52
(1,277)	1:29:A:PHE:HB2	1:58:A:VAL:HG13	7	0.45	0.16	0.39
(1,277)	1:29:A:PHE:HB3	1:58:A:VAL:HG13	7	0.45	0.16	0.39
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG2	7	0.44	0.24	0.41
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG3	7	0.44	0.24	0.41
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG2	7	0.44	0.24	0.41
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG3	7	0.44	0.24	0.41
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG2	7	0.44	0.26	0.38
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG3	7	0.44	0.26	0.38
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG2	7	0.44	0.26	0.38
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG3	7	0.44	0.26	0.38
(1,415)	1:49:A:LEU:HA	1:52:A:VAL:HG23	7	0.43	0.37	0.25
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	7	0.43	0.24	0.37
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	7	0.43	0.24	0.37
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	7	0.43	0.24	0.37
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	7	0.43	0.24	0.37
(1,1593)	1:188:A:LEU:H	1:188:A:LEU:HD13	7	0.42	0.39	0.19
(1,902)	1:91:A:THR:HA	1:91:A:THR:HG23	7	0.39	0.16	0.49
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB2	7	0.38	0.11	0.44
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB3	7	0.38	0.11	0.44
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB2	7	0.38	0.11	0.44
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB3	7	0.38	0.11	0.44
(1,1093)	1:132:A:VAL:HA	1:135:A:ILE:HB	7	0.38	0.17	0.36
(1,2032)	1:227:A:LYS:HA	1:232:A:GLY:H	7	0.36	0.18	0.37
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB2	7	0.35	0.32	0.18
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB3	7	0.35	0.32	0.18
(1,478)	1:58:A:VAL:HA	1:58:A:VAL:HG23	7	0.35	0.05	0.33
(1,74)	1:14:A:LEU:H	1:15:A:THR:H	7	0.35	0.14	0.32
(2,16)	1:61:A:ASN:H	1:66:A:GLN:O	7	0.35	0.19	0.25

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,983)	1:114:A:ALA:HA	1:116:A:ILE:H	7	0.34	0.2	0.34
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG2	7	0.32	0.12	0.28
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG3	7	0.32	0.12	0.28
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG2	7	0.32	0.18	0.23
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG3	7	0.32	0.18	0.23
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB2	7	0.3	0.1	0.31
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB3	7	0.3	0.1	0.31
(1,1077)	1:130:A:TYR:H	1:131:A:THR:HA	7	0.3	0.1	0.29
(1,1806)	1:202:A:GLU:HG2	1:248:A:ASP:H	7	0.28	0.09	0.3
(1,1806)	1:202:A:GLU:HG3	1:248:A:ASP:H	7	0.28	0.09	0.3
(1,1400)	1:169:A:ILE:H	1:170:A:GLU:HA	7	0.28	0.13	0.21
(1,901)	1:91:A:THR:H	1:93:A:GLY:H	7	0.27	0.13	0.21
(2,18)	1:61:A:ASN:O	1:66:A:GLN:H	7	0.26	0.26	0.17
(1,640)	1:72:A:ASP:H	1:73:A:LEU:HA	7	0.25	0.09	0.22
(1,1298)	1:158:A:GLU:H	1:160:A:ILE:H	7	0.25	0.11	0.25
(1,1029)	1:119:A:ASP:H	1:120:A:LYS:H	7	0.25	0.2	0.15
(1,1271)	1:155:A:GLN:H	1:156:A:ALA:H	7	0.25	0.12	0.2
(1,1992)	1:226:A:ILE:H	1:229:A:GLU:H	7	0.24	0.11	0.29
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB2	7	0.24	0.06	0.25
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB3	7	0.24	0.06	0.25
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD13	7	0.23	0.03	0.22
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD23	7	0.23	0.03	0.22
(1,781)	1:84:A:GLU:H	1:85:A:ILE:H	7	0.22	0.05	0.23
(1,1493)	1:178:A:PHE:HA	1:236:A:LEU:HA	7	0.22	0.06	0.25
(1,680)	1:74:A:ILE:H	1:76:A:ALA:H	7	0.21	0.08	0.16
(1,35)	1:12:A:ILE:H	1:13:A:ARG:H	7	0.21	0.09	0.16
(1,885)	1:90:A:LEU:H	1:91:A:THR:H	7	0.21	0.08	0.19
(1,371)	1:43:A:SER:HA	1:44:A:GLY:H	7	0.2	0.04	0.21
(1,412)	1:49:A:LEU:H	1:50:A:ASP:H	7	0.18	0.04	0.16
(1,1327)	1:161:A:LYS:H	1:162:A:GLN:H	7	0.17	0.04	0.17
(1,46)	1:12:A:ILE:HG12	1:13:A:ARG:H	7	0.17	0.11	0.12
(1,46)	1:12:A:ILE:HG13	1:13:A:ARG:H	7	0.17	0.11	0.12
(1,2211)	1:250:A:LYS:H	1:251:A:PHE:H	7	0.15	0.03	0.16
(1,1195)	1:140:A:LYS:H	1:141:A:ASP:H	7	0.14	0.03	0.13
(1,963)	1:110:A:PHE:HA	1:111:A:ARG:H	7	0.13	0.01	0.13
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB2	6	1.4	0.58	1.38
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB3	6	1.4	0.58	1.38
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB2	6	1.39	0.93	1.29
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB3	6	1.39	0.93	1.29
(1,2135)	1:238:A:VAL:H	1:238:A:VAL:HG23	6	1.28	0.22	1.38
(1,1087)	1:131:A:THR:HG23	1:134:A:LEU:H	6	1.14	0.41	1.28
(1,582)	1:67:A:VAL:HG13	1:68:A:ALA:H	6	1.08	0.27	1.01

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,294)	1:30:A:GLU:HG2	1:31:A:ILE:HA	6	0.99	0.1	1.05
(1,294)	1:30:A:GLU:HG3	1:31:A:ILE:HA	6	0.99	0.1	1.05
(1,1462)	1:176:A:LEU:HG	1:237:A:GLU:H	6	0.93	0.53	1.06
(2,33)	1:109:A:MET:O	1:113:A:ILE:H	6	0.91	0.81	0.68
(1,1731)	1:198:A:VAL:HG13	1:210:A:ILE:HG23	6	0.88	0.53	0.84
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG2	6	0.87	0.45	0.82
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG3	6	0.87	0.45	0.82
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG2	6	0.78	0.6	0.57
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG3	6	0.78	0.6	0.57
(1,695)	1:74:A:ILE:HG12	1:80:A:ASP:HA	6	0.7	0.11	0.68
(1,767)	1:82:A:GLN:HB2	1:83:A:THR:H	6	0.56	0.04	0.56
(1,767)	1:82:A:GLN:HB3	1:83:A:THR:H	6	0.56	0.04	0.56
(1,243)	1:24:A:ARG:HB2	1:27:A:LYS:H	6	0.55	0.41	0.4
(1,243)	1:24:A:ARG:HB3	1:27:A:LYS:H	6	0.55	0.41	0.4
(1,1563)	1:185:A:GLY:HA2	1:188:A:LEU:HD13	6	0.52	0.38	0.36
(1,1563)	1:185:A:GLY:HA3	1:188:A:LEU:HD13	6	0.52	0.38	0.36
(1,385)	1:45:A:VAL:HA	1:45:A:VAL:HG23	6	0.49	0.13	0.5
(1,1924)	1:221:A:GLU:HB2	1:222:A:ILE:HB	6	0.48	0.36	0.25
(1,1924)	1:221:A:GLU:HB3	1:222:A:ILE:HB	6	0.48	0.36	0.25
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB2	6	0.46	0.14	0.52
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB3	6	0.46	0.14	0.52
(1,316)	1:32:A:ALA:HB3	1:55:A:THR:H	6	0.45	0.22	0.48
(1,291)	1:30:A:GLU:HB2	1:31:A:ILE:H	6	0.44	0.14	0.49
(1,291)	1:30:A:GLU:HB3	1:31:A:ILE:H	6	0.44	0.14	0.49
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB2	6	0.43	0.13	0.36
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB3	6	0.43	0.13	0.36
(1,24)	1:9:A:THR:HB	1:9:A:THR:HG23	6	0.42	0.22	0.58
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG13	6	0.42	0.2	0.35
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG23	6	0.42	0.2	0.35
(1,399)	1:47:A:LYS:HG2	1:48:A:ASP:H	6	0.42	0.4	0.18
(1,399)	1:47:A:LYS:HG3	1:48:A:ASP:H	6	0.42	0.4	0.18
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB3	6	0.42	0.2	0.4
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB2	6	0.42	0.2	0.4
(1,379)	1:44:A:GLY:HA2	1:45:A:VAL:H	6	0.41	0.09	0.38
(1,379)	1:44:A:GLY:HA3	1:45:A:VAL:H	6	0.41	0.09	0.38
(1,532)	1:61:A:ASN:HA	1:64:A:LYS:H	6	0.4	0.33	0.29
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD2	6	0.38	0.19	0.44
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD3	6	0.38	0.19	0.44
(1,1415)	1:171:A:ARG:HA	1:172:A:ALA:H	6	0.38	0.14	0.36
(1,2169)	1:244:A:VAL:HG13	1:245:A:GLU:H	6	0.37	0.19	0.37
(1,2208)	1:249:A:GLU:HG2	1:250:A:LYS:H	6	0.36	0.14	0.35
(1,2208)	1:249:A:GLU:HG3	1:250:A:LYS:H	6	0.36	0.14	0.35

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,13)	1:7:A:THR:HB	1:15:A:THR:HB	6	0.35	0.14	0.34
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB2	6	0.35	0.18	0.3
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB3	6	0.35	0.18	0.3
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB2	6	0.35	0.18	0.3
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB3	6	0.35	0.18	0.3
(1,960)	1:109:A:MET:HB2	1:110:A:PHE:H	6	0.34	0.06	0.32
(1,960)	1:109:A:MET:HB3	1:110:A:PHE:H	6	0.34	0.06	0.32
(1,601)	1:69:A:LYS:HG2	1:70:A:LYS:H	6	0.33	0.14	0.33
(1,601)	1:69:A:LYS:HG3	1:70:A:LYS:H	6	0.33	0.14	0.33
(1,216)	1:23:A:LYS:H	1:29:A:PHE:H	6	0.33	0.18	0.29
(1,1542)	1:182:A:VAL:HG13	1:183:A:ASN:HA	6	0.32	0.18	0.27
(2,67)	1:220:A:ARG:O	1:224:A:GLU:H	6	0.32	0.19	0.24
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	6	0.32	0.16	0.26
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	6	0.32	0.16	0.26
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	6	0.32	0.16	0.26
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	6	0.32	0.16	0.26
(1,1576)	1:186:A:LYS:HA	1:189:A:LYS:H	6	0.31	0.08	0.31
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB2	6	0.3	0.19	0.22
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB3	6	0.3	0.19	0.22
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB2	6	0.3	0.19	0.22
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB3	6	0.3	0.19	0.22
(1,1226)	1:145:A:SER:HA	1:146:A:VAL:H	6	0.29	0.15	0.26
(1,1119)	1:133:A:ILE:HA	1:137:A:ARG:H	6	0.28	0.13	0.24
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB2	6	0.28	0.14	0.26
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB3	6	0.28	0.14	0.26
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB2	6	0.28	0.14	0.26
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB3	6	0.28	0.14	0.26
(1,179)	1:22:A:MET:H	1:23:A:LYS:HA	6	0.28	0.11	0.33
(1,709)	1:75:A:SER:H	1:78:A:GLY:H	6	0.27	0.12	0.3
(1,392)	1:46:A:GLU:HB2	1:47:A:LYS:H	6	0.26	0.12	0.22
(1,392)	1:46:A:GLU:HB3	1:47:A:LYS:H	6	0.26	0.12	0.22
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG12	6	0.26	0.12	0.2
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG13	6	0.26	0.12	0.2
(1,79)	1:14:A:LEU:HA	1:17:A:VAL:HB	6	0.25	0.18	0.18
(1,2070)	1:230:A:THR:H	1:231:A:LYS:H	6	0.25	0.15	0.2
(1,26)	1:11:A:GLN:H	1:13:A:ARG:H	6	0.23	0.13	0.19
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB2	6	0.22	0.08	0.23
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB3	6	0.22	0.08	0.23
(1,1097)	1:132:A:VAL:HG13	1:132:A:VAL:HG23	6	0.22	0.01	0.23
(1,763)	1:82:A:GLN:H	1:84:A:GLU:H	6	0.22	0.08	0.22
(1,350)	1:39:A:VAL:H	1:39:A:VAL:HG23	6	0.2	0.07	0.17
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG2	6	0.2	0.08	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG3	6	0.2	0.08	0.16
(1,2226)	1:251:A:PHE:HB2	1:252:A:GLU:H	6	0.19	0.07	0.19
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB2	6	0.19	0.04	0.19
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB3	6	0.19	0.04	0.19
(1,1169)	1:137:A:ARG:HB2	1:138:A:ALA:H	6	0.19	0.04	0.19
(1,1169)	1:137:A:ARG:HB3	1:138:A:ALA:H	6	0.19	0.04	0.19
(1,646)	1:72:A:ASP:HA	1:76:A:ALA:H	6	0.18	0.1	0.14
(1,877)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	6	0.18	0.04	0.19
(1,877)	1:89:A:ILE:HG13	1:89:A:ILE:HG23	6	0.18	0.04	0.19
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB2	6	0.18	0.06	0.16
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB3	6	0.18	0.06	0.16
(1,1874)	1:210:A:ILE:HB	1:211:A:VAL:HA	6	0.16	0.05	0.16
(1,782)	1:84:A:GLU:H	1:85:A:ILE:HA	6	0.16	0.02	0.16
(1,1134)	1:135:A:ILE:H	1:136:A:GLU:H	6	0.16	0.04	0.16
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE2	6	0.15	0.04	0.14
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE3	6	0.15	0.04	0.14
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE2	6	0.15	0.04	0.14
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE3	6	0.15	0.04	0.14
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD2	5	1.27	0.23	1.13
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD3	5	1.27	0.23	1.13
(1,841)	1:87:A:LYS:HE2	1:88:A:GLN:HA	5	1.16	0.43	1.33
(1,841)	1:87:A:LYS:HE3	1:88:A:GLN:HA	5	1.16	0.43	1.33
(2,34)	1:110:A:PHE:O	1:114:A:ALA:H	5	1.05	0.73	1.42
(2,37)	1:113:A:ILE:O	1:117:A:VAL:H	5	0.92	0.96	0.44
(1,476)	1:58:A:VAL:H	1:67:A:VAL:HG13	5	0.92	0.71	0.69
(2,35)	1:111:A:ARG:O	1:115:A:THR:H	5	0.79	1.23	0.18
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG12	5	0.74	0.43	0.46
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG13	5	0.74	0.43	0.46
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG12	5	0.74	0.43	0.46
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG13	5	0.74	0.43	0.46
(1,2159)	1:243:A:ASP:HB2	1:244:A:VAL:HG13	5	0.7	0.46	0.47
(1,2159)	1:243:A:ASP:HB3	1:244:A:VAL:HG13	5	0.7	0.46	0.47
(1,1000)	1:116:A:ILE:HB	1:117:A:VAL:HB	5	0.65	0.48	0.41
(1,245)	1:25:A:ALA:HB3	1:26:A:GLY:H	5	0.63	0.12	0.64
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG2	5	0.59	0.28	0.52
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG3	5	0.59	0.28	0.52
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG2	5	0.59	0.28	0.52
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG3	5	0.59	0.28	0.52
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG2	5	0.59	0.36	0.52
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG3	5	0.59	0.36	0.52
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG2	5	0.58	0.28	0.44
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG3	5	0.58	0.28	0.44

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG2	5	0.58	0.28	0.44
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG3	5	0.58	0.28	0.44
(1,644)	1:72:A:ASP:HA	1:74:A:ILE:HG23	5	0.56	0.32	0.41
(1,2136)	1:238:A:VAL:HA	1:238:A:VAL:HG23	5	0.54	0.0	0.54
(2,29)	1:84:A:GLU:O	1:88:A:GLN:H	5	0.52	0.18	0.6
(1,22)	1:9:A:THR:HA	1:9:A:THR:HG23	5	0.47	0.25	0.66
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD2	5	0.47	0.3	0.37
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD3	5	0.47	0.3	0.37
(1,261)	1:28:A:ARG:H	1:60:A:VAL:HA	5	0.47	0.26	0.39
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB2	5	0.47	0.13	0.48
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB3	5	0.47	0.13	0.48
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB2	5	0.47	0.13	0.48
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB3	5	0.47	0.13	0.48
(1,2191)	1:247:A:GLY:HA2	1:249:A:GLU:H	5	0.46	0.13	0.54
(1,2191)	1:247:A:GLY:HA3	1:249:A:GLU:H	5	0.46	0.13	0.54
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	5	0.46	0.42	0.21
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	5	0.46	0.42	0.21
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	5	0.46	0.42	0.21
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	5	0.46	0.42	0.21
(1,330)	1:34:A:TYR:H	1:53:A:LEU:H	5	0.43	0.45	0.15
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB2	5	0.43	0.19	0.58
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB3	5	0.43	0.19	0.58
(1,1268)	1:154:A:GLN:HA	1:156:A:ALA:H	5	0.43	0.41	0.22
(1,1857)	1:208:A:LEU:H	1:208:A:LEU:HD13	5	0.42	0.11	0.44
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB2	5	0.42	0.2	0.46
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB3	5	0.42	0.2	0.46
(1,363)	1:41:A:TRP:HA	1:46:A:GLU:HA	5	0.41	0.33	0.26
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB2	5	0.4	0.1	0.36
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB3	5	0.4	0.1	0.36
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG2	5	0.39	0.22	0.39
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG3	5	0.39	0.22	0.39
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG2	5	0.39	0.22	0.39
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG3	5	0.39	0.22	0.39
(1,1075)	1:129:A:PRO:HG2	1:130:A:TYR:HA	5	0.39	0.14	0.36
(1,1075)	1:129:A:PRO:HG3	1:130:A:TYR:HA	5	0.39	0.14	0.36
(1,742)	1:79:A:THR:HG23	1:81:A:ASP:H	5	0.38	0.26	0.27
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB2	5	0.37	0.14	0.41
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB3	5	0.37	0.14	0.41
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB2	5	0.37	0.14	0.41
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB3	5	0.37	0.14	0.41
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD13	5	0.35	0.2	0.3
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD23	5	0.35	0.2	0.3

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG2	5	0.33	0.19	0.23
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG3	5	0.33	0.19	0.23
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD2	5	0.33	0.23	0.21
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD3	5	0.33	0.23	0.21
(1,496)	1:59:A:PHE:HA	1:67:A:VAL:HB	5	0.33	0.1	0.27
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG12	5	0.32	0.11	0.3
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG13	5	0.32	0.11	0.3
(1,1279)	1:155:A:GLN:HG2	1:158:A:GLU:H	5	0.31	0.19	0.28
(1,1279)	1:155:A:GLN:HG3	1:158:A:GLU:H	5	0.31	0.19	0.28
(1,173)	1:21:A:ARG:HB2	1:89:A:ILE:HG23	5	0.3	0.08	0.26
(1,173)	1:21:A:ARG:HB3	1:89:A:ILE:HG23	5	0.3	0.08	0.26
(1,569)	1:66:A:GLN:HA	1:67:A:VAL:HB	5	0.3	0.35	0.12
(1,829)	1:87:A:LYS:HA	1:90:A:LEU:H	5	0.3	0.11	0.32
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE2	5	0.29	0.18	0.18
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE3	5	0.29	0.18	0.18
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE2	5	0.29	0.18	0.18
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE3	5	0.29	0.18	0.18
(1,1211)	1:142:A:ILE:HA	1:142:A:ILE:HD13	5	0.29	0.1	0.31
(1,483)	1:58:A:VAL:HG13	1:73:A:LEU:HG	5	0.28	0.1	0.27
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB2	5	0.27	0.16	0.23
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB3	5	0.27	0.16	0.23
(2,50)	1:159:A:VAL:O	1:163:A:LEU:H	5	0.27	0.16	0.21
(1,495)	1:59:A:PHE:HA	1:67:A:VAL:HA	5	0.26	0.07	0.26
(2,47)	1:156:A:ALA:O	1:160:A:ILE:H	5	0.25	0.13	0.18
(1,519)	1:60:A:VAL:HG23	1:61:A:ASN:H	5	0.24	0.1	0.19
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG2	5	0.24	0.05	0.25
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG3	5	0.24	0.05	0.25
(1,1901)	1:219:A:PHE:H	1:222:A:ILE:H	5	0.23	0.12	0.24
(1,753)	1:81:A:ASP:H	1:84:A:GLU:H	5	0.23	0.07	0.24
(1,475)	1:58:A:VAL:H	1:58:A:VAL:HB	5	0.22	0.13	0.16
(1,1919)	1:221:A:GLU:HA	1:224:A:GLU:H	5	0.22	0.09	0.19
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG2	5	0.22	0.12	0.16
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG3	5	0.22	0.12	0.16
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE2	5	0.21	0.07	0.18
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE3	5	0.21	0.07	0.18
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE2	5	0.21	0.07	0.18
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE3	5	0.21	0.07	0.18
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE2	5	0.21	0.11	0.17
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE3	5	0.21	0.11	0.17
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE2	5	0.21	0.11	0.17
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE3	5	0.21	0.11	0.17
(1,1854)	1:207:A:GLN:HA	1:208:A:LEU:H	5	0.19	0.04	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,22)	1:72:A:ASP:O	1:76:A:ALA:H	5	0.19	0.06	0.18
(1,1078)	1:130:A:TYR:HA	1:131:A:THR:H	5	0.19	0.01	0.19
(1,1915)	1:221:A:GLU:H	1:222:A:ILE:H	5	0.19	0.04	0.18
(1,2212)	1:250:A:LYS:H	1:251:A:PHE:HA	5	0.19	0.05	0.21
(1,1090)	1:132:A:VAL:H	1:133:A:ILE:H	5	0.18	0.06	0.17
(1,1186)	1:138:A:ALA:HA	1:141:A:ASP:H	5	0.18	0.09	0.14
(2,60)	1:180:A:LEU:O	1:208:A:LEU:H	5	0.15	0.05	0.14
(1,966)	1:111:A:ARG:H	1:112:A:ASP:HA	5	0.15	0.03	0.15
(2,3)	1:20:A:VAL:O	1:31:A:ILE:H	5	0.15	0.04	0.13
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB2	5	0.14	0.02	0.13
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB3	5	0.14	0.02	0.13
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB2	5	0.13	0.02	0.12
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB3	5	0.13	0.02	0.12
(1,2206)	1:249:A:GLU:HA	1:250:A:LYS:H	5	0.12	0.01	0.12
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG2	4	1.22	0.43	1.12
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG3	4	1.22	0.43	1.12
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG2	4	1.22	0.43	1.12
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG3	4	1.22	0.43	1.12
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE2	4	1.04	0.09	1.06
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE3	4	1.04	0.09	1.06
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE2	4	1.04	0.09	1.06
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE3	4	1.04	0.09	1.06
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD2	4	1.02	0.68	1.14
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD3	4	1.02	0.68	1.14
(1,353)	1:39:A:VAL:HB	1:97:A:VAL:HG13	4	1.02	0.84	0.72
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB2	4	0.97	0.37	0.92
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB3	4	0.97	0.37	0.92
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE2	4	0.9	0.36	0.97
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE3	4	0.9	0.36	0.97
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE2	4	0.9	0.36	0.97
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE3	4	0.9	0.36	0.97
(1,1587)	1:187:A:LYS:H	1:188:A:LEU:HG	4	0.86	0.26	0.99
(1,256)	1:27:A:LYS:HG2	1:60:A:VAL:HA	4	0.86	0.42	0.96
(1,256)	1:27:A:LYS:HG3	1:60:A:VAL:HA	4	0.86	0.42	0.96
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG2	4	0.82	0.66	0.75
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG3	4	0.82	0.66	0.75
(1,1426)	1:173:A:HIS:HB2	1:215:A:ASP:HA	4	0.82	0.69	0.55
(1,1426)	1:173:A:HIS:HB3	1:215:A:ASP:HA	4	0.82	0.69	0.55
(1,1608)	1:188:A:LEU:HB2	1:192:A:LEU:H	4	0.77	0.35	0.6
(1,1608)	1:188:A:LEU:HB3	1:192:A:LEU:H	4	0.77	0.35	0.6
(1,1180)	1:138:A:ALA:H	1:138:A:ALA:HB3	4	0.75	0.02	0.74
(1,896)	1:90:A:LEU:HD13	1:95:A:VAL:HG23	4	0.74	0.38	0.6

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG13	4	0.74	0.38	0.6
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG23	4	0.74	0.38	0.6
(1,1751)	1:199:A:ILE:HG23	1:200:A:GLU:H	4	0.74	0.44	0.75
(1,2184)	1:246:A:GLU:HA	1:247:A:GLY:H	4	0.7	0.49	0.74
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB2	4	0.69	0.52	0.52
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB3	4	0.69	0.52	0.52
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG2	4	0.69	0.4	0.71
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG3	4	0.69	0.4	0.71
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG2	4	0.69	0.4	0.71
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG3	4	0.69	0.4	0.71
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB2	4	0.66	0.29	0.67
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB3	4	0.66	0.29	0.67
(1,1243)	1:152:A:THR:HB	1:153:A:LYS:H	4	0.61	0.29	0.72
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG2	4	0.6	0.37	0.63
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG3	4	0.6	0.37	0.63
(1,31)	1:12:A:ILE:H	1:12:A:ILE:HB	4	0.6	0.27	0.7
(1,1062)	1:126:A:THR:H	1:127:A:LYS:H	4	0.6	0.79	0.16
(1,331)	1:34:A:TYR:H	1:53:A:LEU:HA	4	0.59	0.38	0.44
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	4	0.58	0.35	0.42
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	4	0.58	0.35	0.42
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	4	0.58	0.35	0.42
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	4	0.58	0.35	0.42
(1,191)	1:22:A:MET:H	1:89:A:ILE:HD13	4	0.58	0.28	0.62
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD2	4	0.56	0.44	0.4
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD3	4	0.56	0.44	0.4
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD2	4	0.56	0.44	0.4
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD3	4	0.56	0.44	0.4
(1,25)	1:11:A:GLN:H	1:12:A:ILE:H	4	0.56	0.45	0.44
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB2	4	0.52	0.4	0.44
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB3	4	0.52	0.4	0.44
(1,474)	1:57:A:SER:HB2	1:69:A:LYS:HA	4	0.52	0.23	0.62
(1,474)	1:57:A:SER:HB3	1:69:A:LYS:HA	4	0.52	0.23	0.62
(1,358)	1:41:A:TRP:H	1:44:A:GLY:H	4	0.5	0.3	0.44
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG12	4	0.49	0.37	0.38
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG13	4	0.49	0.37	0.38
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB2	4	0.47	0.11	0.48
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB3	4	0.47	0.11	0.48
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG3	4	0.46	0.32	0.3
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG2	4	0.46	0.32	0.3
(1,368)	1:43:A:SER:H	1:43:A:SER:HB2	4	0.45	0.18	0.53
(1,368)	1:43:A:SER:H	1:43:A:SER:HB3	4	0.45	0.18	0.53
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD2	4	0.45	0.1	0.42

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD3	4	0.45	0.1	0.42
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD2	4	0.45	0.1	0.42
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD3	4	0.45	0.1	0.42
(1,1770)	1:200:A:GLU:HB2	1:202:A:GLU:H	4	0.45	0.27	0.38
(1,1770)	1:200:A:GLU:HB3	1:202:A:GLU:H	4	0.45	0.27	0.38
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG13	4	0.44	0.08	0.45
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG23	4	0.44	0.08	0.45
(1,1489)	1:178:A:PHE:H	1:211:A:VAL:HA	4	0.44	0.24	0.37
(1,1442)	1:175:A:ARG:HG2	1:199:A:ILE:HD13	4	0.44	0.37	0.26
(1,1442)	1:175:A:ARG:HG3	1:199:A:ILE:HD13	4	0.44	0.37	0.26
(1,2016)	1:226:A:ILE:HG23	1:231:A:LYS:HA	4	0.41	0.15	0.45
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	4	0.39	0.15	0.4
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	4	0.39	0.15	0.4
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	4	0.39	0.15	0.4
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	4	0.39	0.15	0.4
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB2	4	0.38	0.33	0.22
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB3	4	0.38	0.33	0.22
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG2	4	0.38	0.23	0.32
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG3	4	0.38	0.23	0.32
(1,183)	1:22:A:MET:H	1:29:A:PHE:H	4	0.38	0.21	0.28
(1,2065)	1:229:A:GLU:HB2	1:230:A:THR:HG23	4	0.38	0.19	0.38
(1,2065)	1:229:A:GLU:HB3	1:230:A:THR:HG23	4	0.38	0.19	0.38
(1,1079)	1:131:A:THR:H	1:131:A:THR:HG23	4	0.36	0.06	0.4
(1,1053)	1:122:A:VAL:HG23	1:123:A:ASN:H	4	0.36	0.19	0.36
(1,1274)	1:155:A:GLN:HA	1:159:A:VAL:H	4	0.36	0.23	0.32
(1,445)	1:53:A:LEU:HA	1:55:A:THR:H	4	0.34	0.12	0.35
(1,1120)	1:133:A:ILE:HB	1:133:A:ILE:HD13	4	0.34	0.01	0.34
(1,1891)	1:216:A:PRO:HA	1:217:A:GLY:H	4	0.33	0.05	0.33
(1,327)	1:34:A:TYR:H	1:52:A:VAL:HA	4	0.32	0.03	0.32
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB2	4	0.32	0.21	0.26
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB3	4	0.32	0.21	0.26
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB2	4	0.32	0.21	0.26
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB3	4	0.32	0.21	0.26
(1,2098)	1:232:A:GLY:H	1:233:A:LYS:H	4	0.32	0.11	0.32
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	4	0.32	0.15	0.31
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	4	0.32	0.15	0.31
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	4	0.32	0.15	0.31
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	4	0.32	0.15	0.31
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB2	4	0.32	0.1	0.29
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB3	4	0.32	0.1	0.29
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA2	4	0.32	0.21	0.23
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA3	4	0.32	0.21	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1414)	1:171:A:ARG:H	1:172:A:ALA:HA	4	0.31	0.12	0.32
(1,1502)	1:179:A:ILE:HA	1:179:A:ILE:HD13	4	0.3	0.23	0.19
(1,1378)	1:165:A:GLU:H	1:166:A:LYS:H	4	0.3	0.07	0.3
(1,91)	1:15:A:THR:HA	1:17:A:VAL:H	4	0.3	0.15	0.28
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB2	4	0.28	0.18	0.24
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB3	4	0.28	0.18	0.24
(1,1589)	1:187:A:LYS:HA	1:189:A:LYS:H	4	0.27	0.08	0.29
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB2	4	0.27	0.14	0.23
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB3	4	0.27	0.14	0.23
(1,252)	1:27:A:LYS:HB2	1:28:A:ARG:H	4	0.26	0.11	0.28
(1,252)	1:27:A:LYS:HB3	1:28:A:ARG:H	4	0.26	0.11	0.28
(1,2195)	1:248:A:ASP:H	1:249:A:GLU:HA	4	0.26	0.1	0.23
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG2	4	0.24	0.11	0.24
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG3	4	0.24	0.11	0.24
(1,1005)	1:117:A:VAL:H	1:119:A:ASP:H	4	0.23	0.09	0.22
(1,116)	1:19:A:VAL:H	1:19:A:VAL:HG23	4	0.23	0.13	0.19
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE2	4	0.23	0.1	0.2
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE3	4	0.23	0.1	0.2
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE2	4	0.23	0.08	0.24
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE3	4	0.23	0.08	0.24
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE2	4	0.23	0.08	0.24
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE3	4	0.23	0.08	0.24
(1,1308)	1:159:A:VAL:H	1:162:A:GLN:H	4	0.22	0.06	0.22
(1,632)	1:71:A:GLU:HA	1:74:A:ILE:H	4	0.22	0.08	0.21
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD2	4	0.22	0.03	0.2
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD3	4	0.22	0.03	0.2
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD2	4	0.22	0.03	0.2
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD3	4	0.22	0.03	0.2
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA2	4	0.21	0.11	0.16
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA3	4	0.21	0.11	0.16
(1,2200)	1:248:A:ASP:HA	1:250:A:LYS:H	4	0.21	0.07	0.18
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB2	4	0.2	0.02	0.19
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB3	4	0.2	0.02	0.19
(1,764)	1:82:A:GLN:H	1:85:A:ILE:H	4	0.2	0.03	0.19
(1,828)	1:87:A:LYS:HA	1:89:A:ILE:H	4	0.2	0.07	0.18
(1,514)	1:60:A:VAL:HB	1:66:A:GLN:H	4	0.19	0.05	0.2
(1,1509)	1:180:A:LEU:H	1:208:A:LEU:HA	4	0.18	0.08	0.16
(1,397)	1:47:A:LYS:H	1:48:A:ASP:HA	4	0.18	0.01	0.18
(1,733)	1:78:A:GLY:H	1:79:A:THR:H	4	0.18	0.09	0.15
(1,1511)	1:180:A:LEU:HB2	1:185:A:GLY:H	4	0.18	0.03	0.18
(1,1511)	1:180:A:LEU:HB3	1:185:A:GLY:H	4	0.18	0.03	0.18
(1,1004)	1:117:A:VAL:H	1:118:A:ALA:H	4	0.17	0.03	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2103)	1:233:A:LYS:H	1:234:A:GLY:H	4	0.17	0.06	0.14
(1,1520)	1:181:A:PRO:HA	1:207:A:GLN:HA	4	0.17	0.03	0.17
(1,716)	1:75:A:SER:HB2	1:77:A:PHE:H	4	0.16	0.04	0.16
(1,716)	1:75:A:SER:HB3	1:77:A:PHE:H	4	0.16	0.04	0.16
(1,800)	1:85:A:ILE:H	1:88:A:GLN:H	4	0.16	0.06	0.14
(1,2096)	1:231:A:LYS:HG2	1:232:A:GLY:H	4	0.16	0.05	0.14
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB2	4	0.14	0.03	0.13
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB3	4	0.14	0.03	0.13
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB2	4	0.14	0.03	0.13
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB3	4	0.14	0.03	0.13
(1,1625)	1:189:A:LYS:HA	1:192:A:LEU:H	4	0.14	0.03	0.12
(1,2094)	1:231:A:LYS:HG2	1:233:A:LYS:H	4	0.13	0.02	0.14
(1,2094)	1:231:A:LYS:HG3	1:233:A:LYS:H	4	0.13	0.02	0.14
(1,720)	1:76:A:ALA:H	1:77:A:PHE:HA	4	0.12	0.02	0.12
(2,55)	1:178:A:PHE:H	1:210:A:ILE:O	4	0.12	0.02	0.11
(1,1182)	1:138:A:ALA:H	1:139:A:MET:HA	4	0.12	0.01	0.12
(1,1528)	1:182:A:VAL:H	1:182:A:VAL:HG13	4	0.11	0.0	0.11
(1,1853)	1:207:A:GLN:H	1:208:A:LEU:HA	4	0.11	0.01	0.11
(1,334)	1:38:A:VAL:HA	1:38:A:VAL:HG13	4	0.11	0.0	0.11
(1,1311)	1:159:A:VAL:HB	1:160:A:ILE:HB	3	1.05	0.83	0.69
(1,1972)	1:225:A:LEU:HB2	1:228:A:LYS:HE2	3	1.03	1.06	0.44
(1,1972)	1:225:A:LEU:HB2	1:228:A:LYS:HE3	3	1.03	1.06	0.44
(1,1972)	1:225:A:LEU:HB3	1:228:A:LYS:HE2	3	1.03	1.06	0.44
(1,1972)	1:225:A:LEU:HB3	1:228:A:LYS:HE3	3	1.03	1.06	0.44
(1,2158)	1:243:A:ASP:HB3	1:244:A:VAL:H	3	0.98	0.29	1.04
(1,2158)	1:243:A:ASP:HB2	1:244:A:VAL:H	3	0.98	0.29	1.04
(1,2158)	1:243:A:ASP:HB3	1:244:A:VAL:H	3	0.98	0.29	1.04
(1,2024)	1:227:A:LYS:H	1:230:A:THR:H	3	0.81	0.58	0.48
(1,1316)	1:160:A:ILE:H	1:161:A:LYS:HG2	3	0.79	0.41	0.66
(1,1316)	1:160:A:ILE:H	1:161:A:LYS:HG3	3	0.79	0.41	0.66
(1,351)	1:39:A:VAL:H	1:40:A:GLY:H	3	0.78	0.35	0.71
(1,70)	1:13:A:ARG:HB2	1:15:A:THR:HG23	3	0.72	0.54	0.59
(1,70)	1:13:A:ARG:HB3	1:15:A:THR:HG23	3	0.72	0.54	0.59
(1,1478)	1:177:A:ARG:HB2	1:209:A:GLU:HG2	3	0.7	0.19	0.61
(1,1478)	1:177:A:ARG:HB2	1:209:A:GLU:HG3	3	0.7	0.19	0.61
(1,1478)	1:177:A:ARG:HB3	1:209:A:GLU:HG2	3	0.7	0.19	0.61
(1,1478)	1:177:A:ARG:HB3	1:209:A:GLU:HG3	3	0.7	0.19	0.61
(1,2225)	1:251:A:PHE:HB2	1:252:A:GLU:HG2	3	0.68	0.2	0.72
(1,2225)	1:251:A:PHE:HB2	1:252:A:GLU:HG3	3	0.68	0.2	0.72
(1,2225)	1:251:A:PHE:HB3	1:252:A:GLU:HG2	3	0.68	0.2	0.72
(1,2225)	1:251:A:PHE:HB3	1:252:A:GLU:HG3	3	0.68	0.2	0.72
(1,386)	1:45:A:VAL:HA	1:46:A:GLU:H	3	0.67	0.19	0.62

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1056)	1:124:A:PRO:HA	1:125:A:GLU:HG2	3	0.67	0.31	0.69
(1,1056)	1:124:A:PRO:HA	1:125:A:GLU:HG3	3	0.67	0.31	0.69
(1,1817)	1:203:A:ASP:H	1:248:A:ASP:H	3	0.65	0.14	0.7
(2,71)	1:226:A:ILE:O	1:230:A:THR:H	3	0.58	0.58	0.2
(1,835)	1:87:A:LYS:HB2	1:88:A:GLN:H	3	0.54	0.21	0.41
(1,835)	1:87:A:LYS:HB3	1:88:A:GLN:H	3	0.54	0.21	0.41
(1,1459)	1:176:A:LEU:HG	1:177:A:ARG:H	3	0.53	0.04	0.5
(1,1798)	1:202:A:GLU:HA	1:248:A:ASP:H	3	0.52	0.09	0.52
(1,154)	1:20:A:VAL:HG23	1:93:A:GLY:HA2	3	0.51	0.33	0.5
(1,154)	1:20:A:VAL:HG23	1:93:A:GLY:HA3	3	0.51	0.33	0.5
(1,99)	1:17:A:VAL:HG23	1:18:A:ALA:H	3	0.5	0.07	0.48
(1,736)	1:79:A:THR:HA	1:79:A:THR:HG23	3	0.49	0.05	0.47
(1,1241)	1:152:A:THR:HA	1:156:A:ALA:H	3	0.49	0.27	0.58
(1,238)	1:24:A:ARG:H	1:27:A:LYS:HB2	3	0.47	0.27	0.54
(1,238)	1:24:A:ARG:H	1:27:A:LYS:HB3	3	0.47	0.27	0.54
(1,349)	1:39:A:VAL:H	1:39:A:VAL:HB	3	0.47	0.15	0.5
(1,10)	1:7:A:THR:HA	1:15:A:THR:HB	3	0.46	0.17	0.57
(1,2223)	1:251:A:PHE:HB3	1:252:A:GLU:H	3	0.44	0.08	0.41
(1,2223)	1:251:A:PHE:HB2	1:252:A:GLU:H	3	0.44	0.08	0.41
(1,2223)	1:251:A:PHE:HB3	1:252:A:GLU:H	3	0.44	0.08	0.41
(1,86)	1:15:A:THR:H	1:15:A:THR:HG23	3	0.42	0.2	0.53
(1,1537)	1:182:A:VAL:HA	1:182:A:VAL:HG13	3	0.42	0.09	0.36
(1,1537)	1:182:A:VAL:HA	1:182:A:VAL:HG23	3	0.42	0.09	0.36
(1,1076)	1:129:A:PRO:HG2	1:217:A:GLY:HA2	3	0.41	0.21	0.55
(1,1076)	1:129:A:PRO:HG2	1:217:A:GLY:HA3	3	0.41	0.21	0.55
(1,1076)	1:129:A:PRO:HG3	1:217:A:GLY:HA2	3	0.41	0.21	0.55
(1,1076)	1:129:A:PRO:HG3	1:217:A:GLY:HA3	3	0.41	0.21	0.55
(1,1420)	1:172:A:ALA:HA	1:173:A:HIS:H	3	0.38	0.15	0.46
(1,1046)	1:122:A:VAL:HA	1:122:A:VAL:HG13	3	0.38	0.0	0.38
(1,1046)	1:122:A:VAL:HA	1:122:A:VAL:HG23	3	0.38	0.0	0.38
(1,1676)	1:192:A:LEU:HG	1:229:A:GLU:HG2	3	0.36	0.1	0.3
(1,1676)	1:192:A:LEU:HG	1:229:A:GLU:HG3	3	0.36	0.1	0.3
(1,940)	1:95:A:VAL:HG13	1:97:A:VAL:H	3	0.36	0.15	0.41
(1,1898)	1:218:A:CYS:HA	1:221:A:GLU:HB2	3	0.36	0.06	0.33
(1,1898)	1:218:A:CYS:HA	1:221:A:GLU:HB3	3	0.36	0.06	0.33
(1,1118)	1:133:A:ILE:HA	1:136:A:GLU:HB2	3	0.35	0.11	0.39
(1,1118)	1:133:A:ILE:HA	1:136:A:GLU:HB3	3	0.35	0.11	0.39
(1,1184)	1:138:A:ALA:HA	1:138:A:ALA:HB3	3	0.35	0.0	0.35
(1,1578)	1:186:A:LYS:HA	1:189:A:LYS:HG2	3	0.34	0.14	0.36
(1,1578)	1:186:A:LYS:HA	1:189:A:LYS:HG3	3	0.34	0.14	0.36
(1,1728)	1:198:A:VAL:HB	1:210:A:ILE:HA	3	0.34	0.17	0.39
(1,805)	1:85:A:ILE:HG21	1:88:A:GLN:HB2	3	0.33	0.13	0.29

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,805)	1:85:A:ILE:HG21	1:88:A:GLN:HB3	3	0.33	0.13	0.29
(1,805)	1:85:A:ILE:HG22	1:88:A:GLN:HB2	3	0.33	0.13	0.29
(1,805)	1:85:A:ILE:HG22	1:88:A:GLN:HB3	3	0.33	0.13	0.29
(1,1920)	1:221:A:GLU:HA	1:224:A:GLU:HB2	3	0.33	0.18	0.26
(1,1920)	1:221:A:GLU:HA	1:224:A:GLU:HB3	3	0.33	0.18	0.26
(1,2164)	1:244:A:VAL:HA	1:244:A:VAL:HG13	3	0.32	0.06	0.3
(1,2164)	1:244:A:VAL:HA	1:244:A:VAL:HG23	3	0.32	0.06	0.3
(1,69)	1:13:A:ARG:HB2	1:15:A:THR:HA	3	0.32	0.15	0.32
(1,69)	1:13:A:ARG:HB3	1:15:A:THR:HA	3	0.32	0.15	0.32
(1,998)	1:116:A:ILE:H	1:119:A:ASP:H	3	0.32	0.26	0.16
(1,1592)	1:188:A:LEU:H	1:188:A:LEU:HG	3	0.32	0.16	0.35
(1,4)	1:7:A:THR:H	1:7:A:THR:HB	3	0.31	0.03	0.29
(1,2197)	1:248:A:ASP:HA	1:249:A:GLU:H	3	0.31	0.19	0.24
(1,1055)	1:124:A:PRO:HA	1:125:A:GLU:H	3	0.31	0.24	0.16
(1,1658)	1:191:A:LYS:H	1:193:A:LYS:H	3	0.31	0.03	0.33
(1,400)	1:47:A:LYS:HG2	1:48:A:ASP:HB2	3	0.31	0.18	0.23
(1,400)	1:47:A:LYS:HG2	1:48:A:ASP:HB3	3	0.31	0.18	0.23
(1,400)	1:47:A:LYS:HG3	1:48:A:ASP:HB2	3	0.31	0.18	0.23
(1,400)	1:47:A:LYS:HG3	1:48:A:ASP:HB3	3	0.31	0.18	0.23
(1,1893)	1:216:A:PRO:HA	1:219:A:PHE:H	3	0.3	0.21	0.22
(1,2093)	1:231:A:LYS:HG3	1:232:A:GLY:H	3	0.3	0.11	0.29
(1,2093)	1:231:A:LYS:HG2	1:232:A:GLY:H	3	0.3	0.11	0.29
(1,2093)	1:231:A:LYS:HG3	1:232:A:GLY:H	3	0.3	0.11	0.29
(1,1701)	1:195:A:LEU:HA	1:195:A:LEU:HD13	3	0.29	0.23	0.17
(1,20)	1:8:A:PRO:HD2	1:15:A:THR:HB	3	0.29	0.05	0.3
(1,20)	1:8:A:PRO:HD3	1:15:A:THR:HB	3	0.29	0.05	0.3
(1,196)	1:22:A:MET:HA	1:29:A:PHE:H	3	0.29	0.21	0.16
(1,1970)	1:225:A:LEU:HA	1:229:A:GLU:HB2	3	0.28	0.25	0.11
(1,1970)	1:225:A:LEU:HA	1:229:A:GLU:HB3	3	0.28	0.25	0.11
(1,545)	1:63:A:SER:H	1:64:A:LYS:H	3	0.28	0.21	0.14
(1,2142)	1:241:A:LEU:H	1:242:A:LYS:H	3	0.28	0.07	0.3
(1,694)	1:74:A:ILE:HG12	1:81:A:ASP:H	3	0.27	0.13	0.21
(1,694)	1:74:A:ILE:HG13	1:81:A:ASP:H	3	0.27	0.13	0.21
(1,1383)	1:165:A:GLU:HB2	1:167:A:MET:H	3	0.27	0.13	0.31
(1,1383)	1:165:A:GLU:HB3	1:167:A:MET:H	3	0.27	0.13	0.31
(1,526)	1:61:A:ASN:H	1:66:A:GLN:H	3	0.26	0.18	0.14
(1,1969)	1:225:A:LEU:HA	1:229:A:GLU:H	3	0.26	0.06	0.28
(2,20)	1:70:A:LYS:O	1:74:A:ILE:H	3	0.25	0.1	0.27
(1,964)	1:110:A:PHE:HA	1:112:A:ASP:H	3	0.25	0.02	0.24
(1,1863)	1:208:A:LEU:HB2	1:208:A:LEU:HD13	3	0.24	0.01	0.24
(1,2023)	1:227:A:LYS:H	1:228:A:LYS:HG2	3	0.24	0.1	0.21
(1,2023)	1:227:A:LYS:H	1:228:A:LYS:HG3	3	0.24	0.1	0.21

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1189)	1:138:A:ALA:HB3	1:141:A:ASP:H	3	0.24	0.15	0.16
(1,1317)	1:160:A:ILE:H	1:162:A:GLN:H	3	0.23	0.06	0.22
(1,1435)	1:175:A:ARG:H	1:239:A:LEU:H	3	0.23	0.05	0.27
(1,1277)	1:155:A:GLN:HB2	1:159:A:VAL:H	3	0.23	0.11	0.16
(1,1277)	1:155:A:GLN:HB3	1:159:A:VAL:H	3	0.23	0.11	0.16
(1,1621)	1:189:A:LYS:H	1:190:A:GLU:HG2	3	0.23	0.09	0.22
(1,1621)	1:189:A:LYS:H	1:190:A:GLU:HG3	3	0.23	0.09	0.22
(1,429)	1:52:A:VAL:H	1:52:A:VAL:HB	3	0.23	0.08	0.23
(1,910)	1:92:A:LYS:H	1:93:A:GLY:H	3	0.23	0.07	0.21
(1,1369)	1:164:A:LYS:HA	1:168:A:LYS:HA	3	0.21	0.05	0.24
(1,394)	1:46:A:GLU:HG2	1:47:A:LYS:H	3	0.21	0.03	0.23
(1,394)	1:46:A:GLU:HG3	1:47:A:LYS:H	3	0.21	0.03	0.23
(1,1208)	1:141:A:ASP:HB2	1:166:A:LYS:HE2	3	0.21	0.04	0.22
(1,1208)	1:141:A:ASP:HB2	1:166:A:LYS:HE3	3	0.21	0.04	0.22
(1,1208)	1:141:A:ASP:HB3	1:166:A:LYS:HE2	3	0.21	0.04	0.22
(1,1208)	1:141:A:ASP:HB3	1:166:A:LYS:HE3	3	0.21	0.04	0.22
(1,75)	1:14:A:LEU:H	1:15:A:THR:HA	3	0.2	0.08	0.15
(1,482)	1:58:A:VAL:HG13	1:59:A:PHE:H	3	0.2	0.07	0.16
(2,28)	1:83:A:THR:O	1:87:A:LYS:H	3	0.19	0.08	0.14
(1,1299)	1:158:A:GLU:H	1:161:A:LYS:H	3	0.19	0.06	0.2
(1,2157)	1:243:A:ASP:H	1:244:A:VAL:H	3	0.19	0.09	0.14
(1,1386)	1:166:A:LYS:H	1:167:A:MET:H	3	0.19	0.09	0.14
(1,1849)	1:205:A:GLY:HA2	1:207:A:GLN:H	3	0.18	0.01	0.19
(1,1849)	1:205:A:GLY:HA3	1:207:A:GLN:H	3	0.18	0.01	0.19
(1,2040)	1:227:A:LYS:HD2	1:228:A:LYS:H	3	0.18	0.07	0.17
(1,2040)	1:227:A:LYS:HD3	1:228:A:LYS:H	3	0.18	0.07	0.17
(1,244)	1:25:A:ALA:HA	1:27:A:LYS:H	3	0.18	0.09	0.12
(1,424)	1:51:A:GLU:H	1:52:A:VAL:H	3	0.18	0.03	0.18
(1,2203)	1:249:A:GLU:H	1:249:A:GLU:HG2	3	0.18	0.08	0.13
(1,2203)	1:249:A:GLU:H	1:249:A:GLU:HG3	3	0.18	0.08	0.13
(1,1569)	1:186:A:LYS:H	1:187:A:LYS:HB2	3	0.18	0.07	0.15
(1,1569)	1:186:A:LYS:H	1:187:A:LYS:HB3	3	0.18	0.07	0.15
(2,66)	1:219:A:PHE:O	1:223:A:ASP:H	3	0.17	0.01	0.17
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG3	3	0.17	0.05	0.17
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG2	3	0.17	0.05	0.17
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG3	3	0.17	0.05	0.17
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG2	3	0.17	0.05	0.17
(1,642)	1:72:A:ASP:H	1:75:A:SER:H	3	0.16	0.06	0.15
(1,326)	1:34:A:TYR:H	1:34:A:TYR:HB2	3	0.15	0.03	0.14
(1,326)	1:34:A:TYR:H	1:34:A:TYR:HB3	3	0.15	0.03	0.14
(1,550)	1:64:A:LYS:H	1:66:A:GLN:H	3	0.15	0.03	0.17
(1,1733)	1:199:A:ILE:H	1:199:A:ILE:HB	3	0.15	0.02	0.16

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1626)	1:189:A:LYS:HA	1:192:A:LEU:HB2	3	0.15	0.01	0.16
(1,1626)	1:189:A:LYS:HA	1:192:A:LEU:HB3	3	0.15	0.01	0.16
(1,1708)	1:196:A:ILE:H	1:198:A:VAL:H	3	0.13	0.0	0.13
(1,2165)	1:244:A:VAL:HA	1:245:A:GLU:H	3	0.13	0.02	0.14
(1,794)	1:85:A:ILE:H	1:85:A:ILE:HB	3	0.13	0.04	0.1
(1,1016)	1:118:A:ALA:H	1:119:A:ASP:HA	3	0.13	0.01	0.14
(1,1133)	1:134:A:LEU:H	1:135:A:ILE:HA	3	0.12	0.02	0.11
(1,1706)	1:196:A:ILE:H	1:196:A:ILE:HB	3	0.12	0.0	0.12
(1,1968)	1:225:A:LEU:HA	1:228:A:LYS:HE2	2	1.48	1.04	1.48
(1,1968)	1:225:A:LEU:HA	1:228:A:LYS:HE3	2	1.48	1.04	1.48
(1,1933)	1:222:A:ILE:HG12	1:226:A:ILE:H	2	1.36	0.08	1.36
(1,1933)	1:222:A:ILE:HG13	1:226:A:ILE:H	2	1.36	0.08	1.36
(1,240)	1:24:A:ARG:HA	1:24:A:ARG:HD2	2	1.32	0.02	1.32
(1,240)	1:24:A:ARG:HA	1:24:A:ARG:HD3	2	1.32	0.02	1.32
(1,2014)	1:226:A:ILE:HG23	1:230:A:THR:HG23	2	1.1	0.48	1.1
(1,745)	1:80:A:ASP:H	1:81:A:ASP:H	2	0.78	0.15	0.78
(1,1668)	1:191:A:LYS:HE2	1:229:A:GLU:HG2	2	0.76	0.04	0.76
(1,1668)	1:191:A:LYS:HE2	1:229:A:GLU:HG3	2	0.76	0.04	0.76
(1,1668)	1:191:A:LYS:HE3	1:229:A:GLU:HG2	2	0.76	0.04	0.76
(1,1668)	1:191:A:LYS:HE3	1:229:A:GLU:HG3	2	0.76	0.04	0.76
(1,1934)	1:222:A:ILE:HG12	1:226:A:ILE:HG12	2	0.76	0.02	0.76
(1,1934)	1:222:A:ILE:HG12	1:226:A:ILE:HG13	2	0.76	0.02	0.76
(1,1934)	1:222:A:ILE:HG13	1:226:A:ILE:HG12	2	0.76	0.02	0.76
(1,1934)	1:222:A:ILE:HG13	1:226:A:ILE:HG13	2	0.76	0.02	0.76
(1,1377)	1:165:A:GLU:H	1:165:A:GLU:HG2	2	0.74	0.03	0.74
(1,1377)	1:165:A:GLU:H	1:165:A:GLU:HG3	2	0.74	0.03	0.74
(1,979)	1:111:A:ARG:HG2	1:136:A:GLU:HB2	2	0.71	0.23	0.71
(1,979)	1:111:A:ARG:HG2	1:136:A:GLU:HB3	2	0.71	0.23	0.71
(1,979)	1:111:A:ARG:HG3	1:136:A:GLU:HB2	2	0.71	0.23	0.71
(1,979)	1:111:A:ARG:HG3	1:136:A:GLU:HB3	2	0.71	0.23	0.71
(1,222)	1:23:A:LYS:HA	1:28:A:ARG:HG2	2	0.67	0.13	0.67
(1,222)	1:23:A:LYS:HA	1:28:A:ARG:HG3	2	0.67	0.13	0.67
(1,534)	1:61:A:ASN:HB2	1:64:A:LYS:HG2	2	0.66	0.05	0.66
(1,534)	1:61:A:ASN:HB2	1:64:A:LYS:HG3	2	0.66	0.05	0.66
(1,534)	1:61:A:ASN:HB3	1:64:A:LYS:HG2	2	0.66	0.05	0.66
(1,534)	1:61:A:ASN:HB3	1:64:A:LYS:HG3	2	0.66	0.05	0.66
(1,382)	1:45:A:VAL:H	1:45:A:VAL:HG23	2	0.66	0.48	0.66
(1,1742)	1:199:A:ILE:H	1:213:A:LEU:H	2	0.6	0.08	0.6
(1,365)	1:41:A:TRP:HA	1:46:A:GLU:HG2	2	0.6	0.39	0.6
(1,365)	1:41:A:TRP:HA	1:46:A:GLU:HG3	2	0.6	0.39	0.6
(1,1411)	1:170:A:GLU:HA	1:171:A:ARG:H	2	0.59	0.22	0.59
(1,1885)	1:212:A:CYS:HA	1:213:A:LEU:H	2	0.57	0.01	0.57

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,323)	1:33:A:CYS:HA	1:53:A:LEU:HA	2	0.56	0.32	0.56
(1,1312)	1:159:A:VAL:HB	1:161:A:LYS:H	2	0.53	0.43	0.53
(1,1326)	1:161:A:LYS:H	1:161:A:LYS:HG2	2	0.5	0.26	0.5
(1,1326)	1:161:A:LYS:H	1:161:A:LYS:HG3	2	0.5	0.26	0.5
(1,464)	1:55:A:THR:HA	1:55:A:THR:HG23	2	0.48	0.01	0.48
(1,780)	1:84:A:GLU:H	1:84:A:GLU:HG2	2	0.48	0.24	0.48
(1,780)	1:84:A:GLU:H	1:84:A:GLU:HG3	2	0.48	0.24	0.48
(1,1690)	1:193:A:LYS:HG2	1:198:A:VAL:HG13	2	0.48	0.24	0.48
(1,1690)	1:193:A:LYS:HG3	1:198:A:VAL:HG13	2	0.48	0.24	0.48
(1,1690)	1:193:A:LYS:HG2	1:198:A:VAL:HG23	2	0.48	0.24	0.48
(1,1690)	1:193:A:LYS:HG3	1:198:A:VAL:HG23	2	0.48	0.24	0.48
(1,1977)	1:225:A:LEU:HG	1:226:A:ILE:HD13	2	0.47	0.34	0.47
(1,2213)	1:250:A:LYS:HA	1:250:A:LYS:HE2	2	0.46	0.14	0.46
(1,2213)	1:250:A:LYS:HA	1:250:A:LYS:HE3	2	0.46	0.14	0.46
(1,439)	1:52:A:VAL:HG23	1:53:A:LEU:H	2	0.46	0.05	0.46
(1,1249)	1:153:A:LYS:H	1:154:A:GLN:H	2	0.45	0.28	0.45
(1,738)	1:79:A:THR:HA	1:81:A:ASP:H	2	0.45	0.14	0.45
(1,931)	1:95:A:VAL:H	1:97:A:VAL:H	2	0.44	0.16	0.44
(1,951)	1:108:A:GLN:HA	1:111:A:ARG:H	2	0.44	0.03	0.44
(1,795)	1:85:A:ILE:H	1:85:A:ILE:HG12	2	0.42	0.32	0.42
(1,795)	1:85:A:ILE:H	1:85:A:ILE:HG13	2	0.42	0.32	0.42
(1,1154)	1:136:A:GLU:HB2	1:139:A:MET:HB2	2	0.42	0.22	0.42
(1,1154)	1:136:A:GLU:HB2	1:139:A:MET:HB3	2	0.42	0.22	0.42
(1,1154)	1:136:A:GLU:HB3	1:139:A:MET:HB2	2	0.42	0.22	0.42
(1,1154)	1:136:A:GLU:HB3	1:139:A:MET:HB3	2	0.42	0.22	0.42
(1,205)	1:22:A:MET:HB2	1:92:A:LYS:H	2	0.42	0.15	0.42
(1,205)	1:22:A:MET:HB3	1:92:A:LYS:H	2	0.42	0.15	0.42
(1,528)	1:61:A:ASN:H	1:66:A:GLN:HG2	2	0.4	0.02	0.4
(1,528)	1:61:A:ASN:H	1:66:A:GLN:HG3	2	0.4	0.02	0.4
(1,743)	1:79:A:THR:HG23	1:84:A:GLU:HB2	2	0.4	0.18	0.4
(1,743)	1:79:A:THR:HG23	1:84:A:GLU:HB3	2	0.4	0.18	0.4
(1,1922)	1:221:A:GLU:HB2	1:222:A:ILE:H	2	0.38	0.19	0.38
(1,1922)	1:221:A:GLU:HB3	1:222:A:ILE:H	2	0.38	0.19	0.38
(1,1951)	1:224:A:GLU:H	1:227:A:LYS:HG2	2	0.38	0.14	0.38
(1,1951)	1:224:A:GLU:H	1:227:A:LYS:HG3	2	0.38	0.14	0.38
(1,332)	1:34:A:TYR:H	1:54:A:GLN:H	2	0.36	0.07	0.36
(1,336)	1:38:A:VAL:HB	1:39:A:VAL:H	2	0.36	0.09	0.36
(1,1640)	1:189:A:LYS:HG2	1:193:A:LYS:HE2	2	0.36	0.21	0.36
(1,1640)	1:189:A:LYS:HG2	1:193:A:LYS:HE3	2	0.36	0.21	0.36
(1,1640)	1:189:A:LYS:HG3	1:193:A:LYS:HE2	2	0.36	0.21	0.36
(1,1640)	1:189:A:LYS:HG3	1:193:A:LYS:HE3	2	0.36	0.21	0.36
(1,2116)	1:236:A:LEU:H	1:236:A:LEU:HG	2	0.34	0.11	0.34

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,172)	1:21:A:ARG:HB2	1:30:A:GLU:HA	2	0.34	0.08	0.34
(1,172)	1:21:A:ARG:HB3	1:30:A:GLU:HA	2	0.34	0.08	0.34
(1,1441)	1:175:A:ARG:HG3	1:176:A:LEU:H	2	0.34	0.23	0.34
(1,1441)	1:175:A:ARG:HG2	1:176:A:LEU:H	2	0.34	0.23	0.34
(1,1441)	1:175:A:ARG:HG3	1:176:A:LEU:H	2	0.34	0.23	0.34
(1,1480)	1:177:A:ARG:HB2	1:211:A:VAL:HA	2	0.33	0.01	0.33
(1,1480)	1:177:A:ARG:HB3	1:211:A:VAL:HA	2	0.33	0.01	0.33
(1,1382)	1:165:A:GLU:HB2	1:166:A:LYS:H	2	0.32	0.08	0.32
(1,1382)	1:165:A:GLU:HB3	1:166:A:LYS:H	2	0.32	0.08	0.32
(1,419)	1:50:A:ASP:H	1:53:A:LEU:H	2	0.32	0.1	0.32
(1,1958)	1:225:A:LEU:H	1:225:A:LEU:HG	2	0.32	0.05	0.32
(1,973)	1:111:A:ARG:HB2	1:114:A:ALA:H	2	0.32	0.12	0.32
(1,973)	1:111:A:ARG:HB3	1:114:A:ALA:H	2	0.32	0.12	0.32
(1,754)	1:81:A:ASP:H	1:84:A:GLU:HB2	2	0.3	0.06	0.3
(1,754)	1:81:A:ASP:H	1:84:A:GLU:HB3	2	0.3	0.06	0.3
(1,1036)	1:120:A:LYS:HA	1:120:A:LYS:HE2	2	0.3	0.1	0.3
(1,1036)	1:120:A:LYS:HA	1:120:A:LYS:HE3	2	0.3	0.1	0.3
(1,1355)	1:163:A:LEU:H	1:166:A:LYS:H	2	0.29	0.15	0.29
(1,1164)	1:137:A:ARG:HA	1:137:A:ARG:HG2	2	0.29	0.13	0.29
(1,1164)	1:137:A:ARG:HA	1:137:A:ARG:HG3	2	0.29	0.13	0.29
(1,276)	1:29:A:PHE:HA	1:60:A:VAL:HA	2	0.28	0.08	0.28
(1,456)	1:54:A:GLN:HB3	1:55:A:THR:H	2	0.28	0.1	0.28
(1,456)	1:54:A:GLN:HB2	1:55:A:THR:H	2	0.28	0.1	0.28
(1,456)	1:54:A:GLN:HB3	1:55:A:THR:H	2	0.28	0.1	0.28
(1,1591)	1:187:A:LYS:HB2	1:189:A:LYS:H	2	0.26	0.12	0.26
(1,1591)	1:187:A:LYS:HB3	1:189:A:LYS:H	2	0.26	0.12	0.26
(1,1021)	1:118:A:ALA:HA	1:135:A:ILE:HG12	2	0.26	0.01	0.26
(1,1021)	1:118:A:ALA:HA	1:135:A:ILE:HG13	2	0.26	0.01	0.26
(1,1488)	1:178:A:PHE:H	1:211:A:VAL:H	2	0.26	0.13	0.26
(1,1346)	1:162:A:GLN:H	1:165:A:GLU:H	2	0.26	0.1	0.26
(1,1957)	1:224:A:GLU:HB2	1:225:A:LEU:HA	2	0.26	0.06	0.26
(1,1957)	1:224:A:GLU:HB3	1:225:A:LEU:HA	2	0.26	0.06	0.26
(1,1247)	1:153:A:LYS:H	1:153:A:LYS:HG3	2	0.25	0.02	0.25
(1,1247)	1:153:A:LYS:H	1:153:A:LYS:HG2	2	0.25	0.02	0.25
(1,1663)	1:191:A:LYS:HB2	1:192:A:LEU:H	2	0.24	0.01	0.24
(1,1663)	1:191:A:LYS:HB3	1:192:A:LEU:H	2	0.24	0.01	0.24
(1,1405)	1:169:A:ILE:HG12	1:170:A:GLU:H	2	0.24	0.1	0.24
(1,1405)	1:169:A:ILE:HG13	1:170:A:GLU:H	2	0.24	0.1	0.24
(1,751)	1:81:A:ASP:H	1:81:A:ASP:HB2	2	0.24	0.08	0.24
(1,751)	1:81:A:ASP:H	1:81:A:ASP:HB3	2	0.24	0.08	0.24
(1,1250)	1:153:A:LYS:H	1:154:A:GLN:HA	2	0.23	0.12	0.23
(1,184)	1:22:A:MET:H	1:29:A:PHE:HA	2	0.23	0.06	0.23

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,589)	1:68:A:ALA:HB3	1:72:A:ASP:HB2	2	0.22	0.1	0.22
(1,589)	1:68:A:ALA:HB3	1:72:A:ASP:HB3	2	0.22	0.1	0.22
(1,1431)	1:174:A:MET:HB2	1:175:A:ARG:HB2	2	0.22	0.04	0.22
(1,1431)	1:174:A:MET:HB2	1:175:A:ARG:HB3	2	0.22	0.04	0.22
(1,1431)	1:174:A:MET:HB3	1:175:A:ARG:HB2	2	0.22	0.04	0.22
(1,1431)	1:174:A:MET:HB3	1:175:A:ARG:HB3	2	0.22	0.04	0.22
(1,957)	1:109:A:MET:H	1:111:A:ARG:HB2	2	0.22	0.11	0.22
(1,957)	1:109:A:MET:H	1:111:A:ARG:HB3	2	0.22	0.11	0.22
(1,42)	1:12:A:ILE:HA	1:13:A:ARG:HB2	2	0.22	0.07	0.22
(1,42)	1:12:A:ILE:HA	1:13:A:ARG:HB3	2	0.22	0.07	0.22
(1,1205)	1:141:A:ASP:H	1:142:A:ILE:HB	2	0.21	0.02	0.21
(1,2027)	1:227:A:LYS:HA	1:227:A:LYS:HE2	2	0.21	0.02	0.21
(1,2027)	1:227:A:LYS:HA	1:227:A:LYS:HE3	2	0.21	0.02	0.21
(1,1368)	1:164:A:LYS:HA	1:167:A:MET:HA	2	0.21	0.08	0.21
(1,1445)	1:175:A:ARG:HG2	1:176:A:LEU:H	2	0.21	0.0	0.21
(1,2133)	1:237:A:GLU:HG2	1:238:A:VAL:H	2	0.21	0.0	0.21
(1,2133)	1:237:A:GLU:HG3	1:238:A:VAL:H	2	0.21	0.0	0.21
(1,1403)	1:169:A:ILE:HB	1:169:A:ILE:HD13	2	0.2	0.0	0.2
(1,1895)	1:216:A:PRO:HG2	1:217:A:GLY:HA2	2	0.2	0.1	0.2
(1,1895)	1:216:A:PRO:HG2	1:217:A:GLY:HA3	2	0.2	0.1	0.2
(1,1895)	1:216:A:PRO:HG3	1:217:A:GLY:HA2	2	0.2	0.1	0.2
(1,1895)	1:216:A:PRO:HG3	1:217:A:GLY:HA3	2	0.2	0.1	0.2
(1,1989)	1:226:A:ILE:H	1:227:A:LYS:HG2	2	0.2	0.03	0.2
(1,1989)	1:226:A:ILE:H	1:227:A:LYS:HG3	2	0.2	0.03	0.2
(1,824)	1:87:A:LYS:H	1:89:A:ILE:HB	2	0.2	0.08	0.2
(1,64)	1:13:A:ARG:HA	1:15:A:THR:H	2	0.2	0.03	0.2
(1,623)	1:70:A:LYS:HG2	1:71:A:GLU:HA	2	0.2	0.04	0.2
(1,623)	1:70:A:LYS:HG3	1:71:A:GLU:HA	2	0.2	0.04	0.2
(1,1080)	1:131:A:THR:H	1:133:A:ILE:H	2	0.2	0.03	0.2
(1,1293)	1:157:A:LEU:HA	1:160:A:ILE:HB	2	0.2	0.06	0.2
(2,46)	1:155:A:GLN:O	1:159:A:VAL:H	2	0.2	0.09	0.2
(1,884)	1:90:A:LEU:H	1:90:A:LEU:HD23	2	0.2	0.09	0.2
(2,5)	1:22:A:MET:O	1:29:A:PHE:H	2	0.2	0.05	0.2
(1,604)	1:69:A:LYS:HG3	1:71:A:GLU:H	2	0.19	0.07	0.19
(1,604)	1:69:A:LYS:HG2	1:71:A:GLU:H	2	0.19	0.07	0.19
(1,604)	1:69:A:LYS:HG3	1:71:A:GLU:H	2	0.19	0.07	0.19
(1,604)	1:69:A:LYS:HG2	1:71:A:GLU:H	2	0.19	0.07	0.19
(1,1110)	1:133:A:ILE:H	1:135:A:ILE:H	2	0.18	0.06	0.18
(1,1955)	1:224:A:GLU:HA	1:227:A:LYS:HE2	2	0.18	0.05	0.18
(1,1955)	1:224:A:GLU:HA	1:227:A:LYS:HE3	2	0.18	0.05	0.18
(2,51)	1:175:A:ARG:O	1:239:A:LEU:H	2	0.18	0.06	0.18
(1,850)	1:88:A:GLN:H	1:91:A:THR:H	2	0.18	0.04	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2214)	1:250:A:LYS:HA	1:251:A:PHE:H	2	0.18	0.06	0.18
(1,57)	1:13:A:ARG:H	1:13:A:ARG:HB2	2	0.18	0.04	0.18
(1,57)	1:13:A:ARG:H	1:13:A:ARG:HB3	2	0.18	0.04	0.18
(1,1744)	1:199:A:ILE:HA	1:200:A:GLU:HB2	2	0.18	0.06	0.18
(1,1744)	1:199:A:ILE:HA	1:200:A:GLU:HB3	2	0.18	0.06	0.18
(1,369)	1:43:A:SER:H	1:44:A:GLY:H	2	0.17	0.04	0.17
(1,1157)	1:137:A:ARG:H	1:137:A:ARG:HB2	2	0.17	0.04	0.17
(1,1157)	1:137:A:ARG:H	1:137:A:ARG:HB3	2	0.17	0.04	0.17
(1,493)	1:59:A:PHE:HA	1:60:A:VAL:HB	2	0.16	0.03	0.16
(1,734)	1:79:A:THR:H	1:79:A:THR:HG23	2	0.16	0.05	0.16
(1,785)	1:84:A:GLU:HA	1:84:A:GLU:HG2	2	0.16	0.05	0.16
(1,785)	1:84:A:GLU:HA	1:84:A:GLU:HG3	2	0.16	0.05	0.16
(1,1264)	1:154:A:GLN:H	1:155:A:GLN:H	2	0.16	0.04	0.16
(1,1475)	1:177:A:ARG:HA	1:210:A:ILE:HA	2	0.16	0.05	0.16
(1,1743)	1:199:A:ILE:HA	1:199:A:ILE:HG23	2	0.16	0.03	0.16
(1,2015)	1:226:A:ILE:HG23	1:231:A:LYS:H	2	0.16	0.01	0.16
(2,27)	1:82:A:GLN:O	1:86:A:CYS:H	2	0.16	0.02	0.16
(2,4)	1:21:A:ARG:H	1:94:A:GLU:O	2	0.16	0.05	0.16
(1,320)	1:33:A:CYS:H	1:34:A:TYR:HA	2	0.15	0.02	0.15
(1,797)	1:85:A:ILE:H	1:86:A:CYS:H	2	0.15	0.02	0.15
(1,817)	1:86:A:CYS:HA	1:90:A:LEU:HB2	2	0.15	0.02	0.15
(1,817)	1:86:A:CYS:HA	1:90:A:LEU:HB3	2	0.15	0.02	0.15
(1,1524)	1:181:A:PRO:HG2	1:182:A:VAL:H	2	0.15	0.0	0.15
(1,1524)	1:181:A:PRO:HG3	1:182:A:VAL:H	2	0.15	0.0	0.15
(2,57)	1:179:A:ILE:H	1:235:A:SER:O	2	0.15	0.03	0.15
(1,102)	1:18:A:ALA:H	1:19:A:VAL:HA	2	0.15	0.0	0.15
(1,281)	1:30:A:GLU:H	1:30:A:GLU:HB2	2	0.15	0.03	0.15
(1,281)	1:30:A:GLU:H	1:30:A:GLU:HB3	2	0.15	0.03	0.15
(1,1909)	1:220:A:ARG:HA	1:224:A:GLU:H	2	0.14	0.04	0.14
(1,2219)	1:251:A:PHE:H	1:251:A:PHE:HB2	2	0.14	0.0	0.14
(1,2219)	1:251:A:PHE:H	1:251:A:PHE:HB3	2	0.14	0.0	0.14
(1,178)	1:22:A:MET:H	1:23:A:LYS:H	2	0.14	0.01	0.14
(1,260)	1:28:A:ARG:H	1:29:A:PHE:H	2	0.13	0.0	0.13
(1,904)	1:91:A:THR:HB	1:92:A:LYS:H	2	0.13	0.01	0.13
(1,239)	1:24:A:ARG:HA	1:24:A:ARG:HG2	2	0.12	0.02	0.12
(1,239)	1:24:A:ARG:HA	1:24:A:ARG:HG3	2	0.12	0.02	0.12
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG3	2	0.12	0.02	0.12
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG2	2	0.12	0.02	0.12
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG3	2	0.12	0.02	0.12
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG2	2	0.12	0.02	0.12
(1,1283)	1:156:A:ALA:H	1:157:A:LEU:HA	2	0.12	0.02	0.12
(1,1315)	1:160:A:ILE:H	1:161:A:LYS:HB2	2	0.12	0.02	0.12

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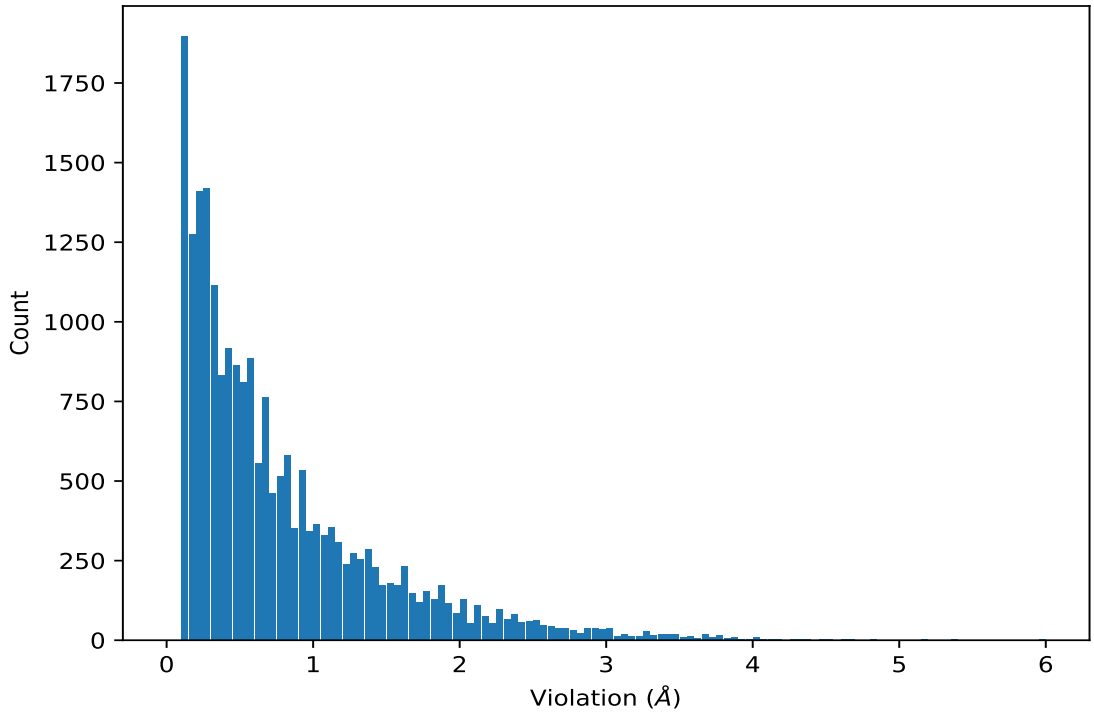
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1315)	1:160:A:ILE:H	1:161:A:LYS:HB3	2	0.12	0.02	0.12
(2,15)	1:60:A:VAL:H	1:66:A:GLN:O	2	0.12	0.02	0.12
(1,492)	1:59:A:PHE:H	1:68:A:ALA:H	2	0.12	0.01	0.12
(1,1083)	1:131:A:THR:HA	1:133:A:ILE:H	2	0.12	0.01	0.12
(1,1105)	1:133:A:ILE:H	1:133:A:ILE:HG12	2	0.12	0.01	0.12
(1,1105)	1:133:A:ILE:H	1:133:A:ILE:HG13	2	0.12	0.01	0.12
(2,49)	1:158:A:GLU:O	1:162:A:GLN:H	2	0.12	0.0	0.12
(1,593)	1:69:A:LYS:H	1:71:A:GLU:H	2	0.11	0.01	0.11
(1,27)	1:11:A:GLN:H	1:13:A:ARG:HB2	2	0.11	0.0	0.11
(1,27)	1:11:A:GLN:H	1:13:A:ARG:HB3	2	0.11	0.0	0.11

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

9.5 All violated distance restraints

9.5.1 Histogram : Distribution of distance violations

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



9.5.2 Table : All distance violations (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)
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	9	5.99
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	9	5.99
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	18	5.96
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	10	5.47
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	10	5.38
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	10	5.38
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	5	5.23
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	14	5.16
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	14	5.16
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	18	5.15
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	13	5.14
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	17	5.1
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	18	4.83
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	9	4.81
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	4	4.71
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	2	4.69
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	11	4.66
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	6	4.61
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	6	4.61
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	19	4.6
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	5	4.51
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	16	4.5
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	8	4.47
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	16	4.47
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	16	4.47
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	11	4.36
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	11	4.36
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	1	4.35
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	9	4.34
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	4	4.3
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	4	4.26
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	4	4.26
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	20	4.22
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	15	4.18
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	15	4.18
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	9	4.18
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	14	4.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	1	4.13
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	2	4.12
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	17	4.07
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	12	4.07
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	1	4.03
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	1	4.03
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	18	4.02
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	2	4.02
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	16	4.01
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	15	4.01
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	1	4.0
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	1	4.0
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	9	3.95
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	9	3.95
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	2	3.94
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	15	3.94
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	1	3.93
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	17	3.93
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	11	3.9
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	11	3.9
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	11	3.89
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	17	3.89
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	17	3.89
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	2	3.86
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	20	3.85
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	20	3.85
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	12	3.84
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	14	3.84
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	19	3.83
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	7	3.82
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	7	3.82
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	16	3.81
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	16	3.81
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	17	3.79
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	7	3.79
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	7	3.79
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	14	3.78
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	14	3.78
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	18	3.78
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	18	3.78
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	3	3.77
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	17	3.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	13	3.76
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	10	3.76
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	10	3.76
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	4	3.75
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	17	3.75
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	17	3.75
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	15	3.73
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	5	3.73
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	11	3.73
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	13	3.72
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	17	3.71
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	10	3.71
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	10	3.71
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	4	3.7
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB2	18	3.69
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB3	18	3.69
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	7	3.69
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	18	3.68
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	11	3.68
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	9	3.68
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	9	3.68
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	10	3.68
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	10	3.68
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	17	3.67
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	20	3.66
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	20	3.66
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	19	3.66
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	19	3.66
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	5	3.66
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	2	3.66
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	2	3.66
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	2	3.66
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	2	3.66
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	15	3.65
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	15	3.65
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	3	3.64
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	10	3.64
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	2	3.6
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	5	3.59
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	14	3.58
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	3	3.57
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	3	3.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	18	3.57
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	18	3.57
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	3	3.57
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	10	3.57
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	10	3.57
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	9	3.56
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	9	3.56
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	7	3.56
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	16	3.56
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	15	3.55
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	15	3.55
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	9	3.52
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	12	3.51
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	12	3.51
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	20	3.51
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	12	3.51
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	7	3.51
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	17	3.5
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	10	3.5
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	15	3.49
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	15	3.49
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	1	3.49
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	14	3.49
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	14	3.49
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	17	3.49
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	17	3.49
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	20	3.47
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	20	3.47
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	14	3.47
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	14	3.47
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	14	3.47
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	14	3.47
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	19	3.46
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	4	3.45
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	6	3.45
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	6	3.45
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	1	3.45
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	4	3.44
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	13	3.44
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	17	3.44
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	6	3.43
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	20	3.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	20	3.43
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	17	3.43
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	17	3.43
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	10	3.42
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	10	3.42
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	14	3.42
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	10	3.42
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	10	3.42
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	10	3.42
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	1	3.41
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	20	3.41
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	14	3.41
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	17	3.41
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	3	3.4
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	20	3.39
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	20	3.39
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	1	3.39
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	17	3.38
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	15	3.38
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	18	3.38
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	5	3.37
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	15	3.37
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	15	3.37
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	15	3.37
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	13	3.37
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	15	3.37
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	15	3.37
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	8	3.36
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	5	3.36
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	13	3.36
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	6	3.35
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	19	3.34
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	4	3.33
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	4	3.33
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	17	3.33
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	17	3.33
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	17	3.33
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	17	3.33
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	20	3.32
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	3	3.32
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	19	3.32
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	19	3.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	7	3.31
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	14	3.31
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	14	3.31
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	9	3.31
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	12	3.31
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	5	3.3
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	10	3.3
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	3	3.3
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	2	3.29
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	20	3.29
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	20	3.29
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	2	3.28
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	16	3.28
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	16	3.28
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	4	3.27
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	10	3.27
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	10	3.27
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	12	3.26
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	1	3.26
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	13	3.26
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	4	3.26
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	4	3.26
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	12	3.26
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	15	3.26
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	15	3.26
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	8	3.26
(2,35)	1:111:A:ARG:O	1:115:A:THR:H	8	3.25
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	18	3.25
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	2	3.25
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	2	3.25
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	8	3.25
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	8	3.25
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	5	3.25
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	15	3.25
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	11	3.24
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	11	3.24
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	20	3.23
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	4	3.22
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	12	3.22
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	16	3.22
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	16	3.22
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	14	3.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	5	3.21
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	5	3.21
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	7	3.21
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	13	3.21
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	13	3.21
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	19	3.19
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	16	3.19
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	14	3.18
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	11	3.18
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	16	3.18
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	16	3.18
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	18	3.18
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	7	3.18
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	17	3.17
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	17	3.17
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	7	3.17
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	2	3.17
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	6	3.16
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	4	3.16
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	15	3.15
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	15	3.15
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	15	3.15
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	6	3.15
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	6	3.15
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	4	3.15
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	5	3.14
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	5	3.13
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	6	3.13
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	4	3.13
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	3	3.12
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	3	3.12
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	4	3.12
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	10	3.12
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	13	3.11
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	13	3.11
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	8	3.11
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	14	3.1
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	16	3.1
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	16	3.1
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	4	3.09
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	10	3.09
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	10	3.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	16	3.08
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	1	3.08
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	11	3.08
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	11	3.08
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	20	3.08
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	1	3.07
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	19	3.07
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	19	3.07
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	19	3.07
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	19	3.07
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	8	3.06
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	8	3.05
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	16	3.05
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	15	3.05
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	15	3.05
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	12	3.05
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	12	3.05
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	8	3.05
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	8	3.05
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	16	3.04
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	18	3.04
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	18	3.04
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	14	3.04
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	12	3.04
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	18	3.04
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	10	3.04
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	10	3.04
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	10	3.04
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	15	3.03
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	20	3.03
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	7	3.03
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	7	3.03
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	2	3.03
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	2	3.03
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	11	3.02
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	2	3.02
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	19	3.02
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	10	3.02
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	5	3.01
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	13	3.01
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	17	3.01
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	10	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	17	3.01
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	17	3.01
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	2	3.0
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	4	3.0
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	4	3.0
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	15	3.0
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	11	2.99
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	12	2.99
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	13	2.99
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	14	2.99
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	4	2.99
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	4	2.99
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	2	2.99
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	2	2.99
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	2	2.99
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	2	2.99
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	19	2.98
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	17	2.98
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	7	2.98
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	17	2.97
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	5	2.97
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	5	2.97
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	5	2.96
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	5	2.96
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	1	2.96
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	1	2.96
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	1	2.96
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	1	2.96
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	1	2.96
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	1	2.96
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	12	2.96
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	12	2.96
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	12	2.96
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	20	2.96
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	20	2.96
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	20	2.96
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	4	2.96
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	10	2.95
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	9	2.95
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	2	2.95
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	18	2.94
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	18	2.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	12	2.94
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	1	2.94
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	1	2.94
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	1	2.94
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	1	2.94
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	15	2.94
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	12	2.94
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	12	2.94
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	6	2.94
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	6	2.94
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	6	2.94
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	6	2.94
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	8	2.94
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	9	2.94
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	8	2.94
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	20	2.94
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	1	2.93
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	12	2.93
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	12	2.93
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	14	2.93
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	1	2.93
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	14	2.93
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	19	2.93
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	4	2.93
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	13	2.92
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	8	2.92
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	8	2.92
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	8	2.92
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	8	2.92
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	17	2.92
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	11	2.92
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	7	2.92
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	7	2.92
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	7	2.92
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	9	2.92
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	11	2.91
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	19	2.91
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	20	2.9
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	10	2.9
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	2	2.9
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	5	2.9
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	5	2.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	15	2.9
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	15	2.9
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	3	2.9
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	3	2.9
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	3	2.9
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	7	2.89
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	11	2.89
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	11	2.89
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	2	2.89
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	2	2.89
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	6	2.89
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	10	2.89
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	10	2.89
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	12	2.88
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	11	2.88
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	17	2.88
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	15	2.87
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	11	2.87
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	6	2.87
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	9	2.87
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	3	2.87
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	14	2.87
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	1	2.86
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	10	2.86
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	10	2.86
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	19	2.86
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	8	2.85
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	20	2.85
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	20	2.85
(1,306)	1:31:A:ILE:HG23	1:58:A:VAL:HB	19	2.85
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	7	2.85
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	7	2.85
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	4	2.84
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	7	2.84
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	2	2.84
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	10	2.83
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	18	2.83
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	2	2.83
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	12	2.83
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	16	2.82
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	19	2.82
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	7	2.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	5	2.82
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	2	2.82
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	2	2.82
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	2	2.82
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	2	2.82
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	18	2.82
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	18	2.82
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	15	2.81
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	3	2.81
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	2	2.81
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	2	2.81
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	12	2.81
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	14	2.8
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	7	2.8
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	7	2.8
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	14	2.8
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	14	2.8
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	16	2.79
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	16	2.79
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	16	2.79
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	16	2.79
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	4	2.79
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	17	2.79
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	17	2.79
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	17	2.79
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	1	2.79
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	13	2.79
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	9	2.78
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	20	2.77
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	11	2.77
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	5	2.76
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	5	2.76
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	5	2.76
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	19	2.76
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	8	2.76
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	18	2.76
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	17	2.76
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	7	2.75
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	19	2.75
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	17	2.75
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	2	2.75
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	4	2.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	3	2.74
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	14	2.74
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	7	2.74
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	6	2.73
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	6	2.73
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	6	2.73
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	6	2.73
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	7	2.73
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	10	2.72
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	18	2.72
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	10	2.72
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	19	2.72
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	4	2.72
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	4	2.72
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	16	2.72
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	10	2.71
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	10	2.71
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	19	2.71
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	14	2.71
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	9	2.71
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	11	2.71
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	4	2.71
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	13	2.71
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	3	2.71
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	3	2.71
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	17	2.71
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	18	2.7
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	12	2.7
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	3	2.7
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	3	2.7
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	3	2.7
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	3	2.7
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	1	2.7
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	15	2.7
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	15	2.7
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	7	2.7
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	9	2.7
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	9	2.7
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	9	2.7
(2,37)	1:113:A:ILE:O	1:117:A:VAL:H	3	2.69
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	1	2.69
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	11	2.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	17	2.69
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	5	2.69
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	4	2.69
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	4	2.69
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	4	2.69
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	4	2.69
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	17	2.69
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	6	2.69
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	6	2.69
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	5	2.69
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	15	2.69
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	13	2.68
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	6	2.68
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	9	2.68
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	9	2.68
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	6	2.67
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	19	2.67
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	19	2.67
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	15	2.67
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	15	2.67
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	4	2.67
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	4	2.67
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	3	2.67
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	12	2.67
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	7	2.67
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	7	2.67
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	10	2.67
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	2	2.67
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	2	2.67
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	11	2.66
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	6	2.66
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	3	2.66
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	3	2.66
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	3	2.66
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	3	2.66
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	1	2.66
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	4	2.65
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	19	2.65
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	19	2.65
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	10	2.65
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	9	2.65
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	16	2.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	16	2.65
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	19	2.65
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	9	2.64
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	17	2.64
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	17	2.64
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	9	2.64
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	17	2.64
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	18	2.64
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	11	2.64
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	13	2.63
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	19	2.63
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	19	2.63
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	12	2.63
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	12	2.63
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	12	2.63
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	12	2.63
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	8	2.63
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	19	2.63
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	19	2.63
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	7	2.62
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	7	2.62
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	1	2.62
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	18	2.62
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	18	2.62
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	16	2.62
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	16	2.62
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	20	2.61
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	20	2.61
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	17	2.61
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	17	2.61
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	9	2.61
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	10	2.61
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	5	2.61
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	15	2.61
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	14	2.61
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	15	2.61
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	16	2.6
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	5	2.6
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	16	2.59
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	16	2.59
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	9	2.59
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	9	2.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	9	2.59
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	9	2.59
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	20	2.59
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	10	2.59
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	1	2.59
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	1	2.59
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	6	2.59
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	4	2.59
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	15	2.59
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	14	2.58
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	14	2.58
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	3	2.58
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	3	2.58
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	3	2.58
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	3	2.58
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	10	2.58
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	17	2.58
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	4	2.58
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	11	2.58
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	2	2.58
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	3	2.58
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	3	2.58
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	12	2.58
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	3	2.57
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	2	2.57
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	18	2.57
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	18	2.57
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	7	2.57
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	15	2.57
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	8	2.57
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	9	2.57
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	2	2.57
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	18	2.57
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	18	2.57
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	1	2.57
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	6	2.57
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	1	2.57
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	10	2.57
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	10	2.57
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	3	2.56
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	20	2.56
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	8	2.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	13	2.56
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	1	2.55
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	12	2.55
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	11	2.55
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	11	2.55
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	18	2.55
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	18	2.55
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	18	2.55
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	12	2.54
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	20	2.54
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	7	2.54
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	7	2.54
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	5	2.54
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	6	2.54
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	15	2.54
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	15	2.54
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	15	2.54
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	15	2.54
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	9	2.54
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	11	2.53
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	16	2.53
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	11	2.53
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	11	2.53
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	11	2.53
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	11	2.53
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	13	2.53
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	5	2.53
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	4	2.53
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	5	2.53
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	5	2.53
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	20	2.53
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	20	2.53
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	19	2.53
(1,1972)	1:225:A:LEU:HB2	1:228:A:LYS:HE2	19	2.52
(1,1972)	1:225:A:LEU:HB2	1:228:A:LYS:HE3	19	2.52
(1,1972)	1:225:A:LEU:HB3	1:228:A:LYS:HE2	19	2.52
(1,1972)	1:225:A:LEU:HB3	1:228:A:LYS:HE3	19	2.52
(1,1968)	1:225:A:LEU:HA	1:228:A:LYS:HE2	19	2.52
(1,1968)	1:225:A:LEU:HA	1:228:A:LYS:HE3	19	2.52
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	16	2.52
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	20	2.52
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	20	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	1	2.52
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	7	2.51
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	7	2.51
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	7	2.51
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	15	2.51
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	8	2.51
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	16	2.51
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	14	2.51
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	14	2.51
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	16	2.51
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	16	2.51
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	19	2.5
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	10	2.5
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	13	2.5
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	12	2.5
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	12	2.5
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	13	2.5
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	8	2.5
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	15	2.5
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	15	2.5
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	2	2.5
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	11	2.5
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	1	2.49
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	1	2.49
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	18	2.49
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	1	2.49
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	14	2.49
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	14	2.49
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	8	2.49
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	15	2.49
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB2	11	2.49
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB3	11	2.49
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	1	2.49
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	1	2.48
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	19	2.48
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	19	2.48
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	17	2.48
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	17	2.48
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	19	2.48
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	17	2.48
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	17	2.48
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	17	2.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	17	2.48
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	7	2.48
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	13	2.47
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	13	2.47
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	20	2.47
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	14	2.47
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	14	2.47
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	11	2.47
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	5	2.47
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	16	2.47
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	16	2.47
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	17	2.47
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	2	2.47
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	2	2.47
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	11	2.47
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	11	2.47
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	15	2.47
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	10	2.47
(2,33)	1:109:A:MET:O	1:113:A:ILE:H	17	2.46
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	19	2.46
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	19	2.46
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	1	2.46
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	15	2.46
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	15	2.46
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	18	2.46
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	11	2.46
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	10	2.46
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	11	2.46
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	8	2.46
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	16	2.46
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	16	2.46
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB2	20	2.46
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB3	20	2.46
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	16	2.46
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	12	2.45
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	9	2.45
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	15	2.45
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	16	2.45
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	16	2.45
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	5	2.45
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	2	2.45
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	13	2.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	13	2.44
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	20	2.44
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	20	2.44
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	20	2.44
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	20	2.44
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	11	2.44
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	11	2.44
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	1	2.44
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	1	2.44
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	18	2.44
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	15	2.44
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	2	2.44
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	5	2.44
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	5	2.44
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	6	2.43
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	19	2.43
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	19	2.43
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	6	2.43
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	16	2.43
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	20	2.43
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	15	2.43
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	3	2.43
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	13	2.43
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	15	2.43
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	11	2.43
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	11	2.43
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	16	2.43
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	14	2.42
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	14	2.42
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	19	2.42
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	13	2.42
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	16	2.42
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	16	2.42
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	4	2.42
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	10	2.42
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	10	2.42
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	13	2.42
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	18	2.42
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	15	2.41
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	2	2.41
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	6	2.41
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	6	2.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	6	2.41
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	6	2.41
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	17	2.41
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	17	2.41
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	16	2.41
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	11	2.41
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	6	2.41
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	6	2.41
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	6	2.41
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	7	2.41
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	7	2.41
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	16	2.41
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	16	2.41
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	1	2.4
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	18	2.4
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	18	2.4
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	7	2.4
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	13	2.4
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	8	2.4
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	7	2.4
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	7	2.4
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	4	2.4
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	4	2.4
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	14	2.4
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	17	2.39
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	18	2.39
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	18	2.39
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	18	2.39
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	18	2.39
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	16	2.39
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	14	2.39
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	14	2.39
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	5	2.39
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	7	2.39
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	3	2.39
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	7	2.39
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	7	2.39
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	3	2.39
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	14	2.39
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	14	2.39
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	14	2.39
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	15	2.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	15	2.39
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	19	2.39
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	15	2.39
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	3	2.38
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	13	2.38
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	13	2.38
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	16	2.38
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	8	2.38
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	8	2.38
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	3	2.38
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	12	2.38
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	4	2.38
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	2	2.38
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	2	2.38
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	12	2.37
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	12	2.37
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	3	2.37
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	13	2.37
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	13	2.37
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	18	2.37
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	18	2.37
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	20	2.37
(1,353)	1:39:A:VAL:HB	1:97:A:VAL:HG13	11	2.37
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	11	2.37
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	1	2.37
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	7	2.36
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	7	2.36
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	18	2.36
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	18	2.36
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	15	2.36
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	15	2.36
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	16	2.36
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	11	2.36
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	11	2.36
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	8	2.36
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	1	2.36
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	16	2.36
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	18	2.36
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	14	2.36
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	4	2.36
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	1	2.35
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	16	2.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	4	2.35
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	20	2.35
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	2	2.35
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	10	2.35
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	18	2.35
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	11	2.35
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	8	2.35
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	8	2.35
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	4	2.35
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	12	2.35
(1,306)	1:31:A:ILE:HG23	1:58:A:VAL:HB	9	2.35
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	11	2.35
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	11	2.34
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	8	2.34
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	4	2.34
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	19	2.34
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	19	2.34
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	19	2.34
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	13	2.34
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	13	2.34
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	18	2.34
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	14	2.33
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	14	2.33
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	13	2.33
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	13	2.33
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	13	2.33
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	13	2.33
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	4	2.33
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	4	2.33
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	4	2.33
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	13	2.33
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	13	2.33
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	18	2.33
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	18	2.33
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	15	2.32
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	15	2.32
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	16	2.32
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	12	2.32
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	12	2.32
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	9	2.32
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	20	2.32
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	11	2.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	11	2.32
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	1	2.32
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	12	2.32
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	6	2.32
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	6	2.32
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	11	2.32
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	12	2.32
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	12	2.32
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	2	2.32
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	2	2.32
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	2	2.32
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	2	2.32
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	8	2.32
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	9	2.32
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	14	2.32
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	12	2.31
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	16	2.31
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	9	2.31
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	9	2.31
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	9	2.31
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	9	2.31
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	9	2.31
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	17	2.31
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	17	2.31
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	2	2.31
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	11	2.31
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	11	2.31
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	11	2.31
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	5	2.31
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	17	2.31
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	18	2.31
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	18	2.31
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	18	2.31
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	18	2.31
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	6	2.31
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	6	2.31
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	10	2.3
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	13	2.3
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	13	2.3
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	16	2.3
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	9	2.3
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	7	2.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	12	2.3
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	18	2.3
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	5	2.3
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	1	2.3
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	5	2.3
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	9	2.3
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	2	2.3
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	6	2.3
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	9	2.3
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	19	2.3
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	6	2.3
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	17	2.3
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	6	2.3
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	4	2.29
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	20	2.29
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	20	2.29
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	7	2.29
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	7	2.29
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	20	2.29
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	12	2.29
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	12	2.29
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	17	2.29
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	13	2.29
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	4	2.29
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	7	2.29
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	15	2.29
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	2	2.28
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	3	2.28
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	20	2.28
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	10	2.28
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	3	2.28
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	3	2.28
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	19	2.28
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	19	2.28
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	14	2.28
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	18	2.28
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	8	2.27
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	13	2.27
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	3	2.27
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	3	2.27
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	19	2.27
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	16	2.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	4	2.27
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	4	2.27
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	5	2.27
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	12	2.27
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	8	2.27
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	8	2.27
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	7	2.27
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	17	2.27
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	13	2.27
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	13	2.27
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	8	2.27
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	8	2.27
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	6	2.26
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	1	2.26
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	12	2.26
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	12	2.26
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	6	2.26
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	4	2.26
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	5	2.26
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	5	2.26
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	14	2.26
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	14	2.26
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	1	2.26
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	2	2.26
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	16	2.26
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	11	2.26
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	16	2.26
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	18	2.26
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	20	2.26
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	20	2.26
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	2	2.25
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	1	2.25
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	12	2.25
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	19	2.25
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	2	2.25
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	19	2.25
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	8	2.25
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	9	2.25
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	9	2.25
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	9	2.25
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB2	20	2.25
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB3	20	2.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	15	2.25
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	16	2.25
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	14	2.25
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	14	2.25
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	14	2.25
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	14	2.25
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	11	2.24
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	3	2.24
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	15	2.24
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	3	2.24
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	3	2.24
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	3	2.24
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	4	2.24
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	11	2.24
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	5	2.24
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	19	2.24
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	17	2.23
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	19	2.23
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	1	2.23
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	9	2.23
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	1	2.23
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	1	2.23
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	5	2.23
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	18	2.23
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	20	2.23
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	10	2.22
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	2	2.22
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	20	2.22
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	20	2.22
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	18	2.22
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	4	2.22
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	4	2.22
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	19	2.22
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	6	2.22
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	5	2.21
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	5	2.21
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	4	2.21
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	10	2.21
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	11	2.21
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	14	2.21
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	14	2.21
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	17	2.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	12	2.21
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	20	2.21
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	11	2.21
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	3	2.2
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	18	2.2
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	6	2.2
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	4	2.2
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	10	2.2
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	5	2.2
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	2	2.2
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	12	2.2
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	12	2.2
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	15	2.2
(1,476)	1:58:A:VAL:H	1:67:A:VAL:HG13	10	2.2
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	4	2.2
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	2	2.2
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	2	2.2
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	6	2.2
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	6	2.19
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	12	2.19
(1,1311)	1:159:A:VAL:HB	1:160:A:ILE:HB	13	2.19
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	18	2.19
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	11	2.19
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	20	2.19
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	13	2.18
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	16	2.18
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	16	2.18
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	3	2.18
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	3	2.18
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	17	2.18
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	7	2.18
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	20	2.18
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	13	2.18
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	11	2.18
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	18	2.18
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	4	2.18
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	7	2.18
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	18	2.18
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	10	2.18
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	10	2.18
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	10	2.18
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	10	2.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	18	2.18
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	18	2.18
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	20	2.18
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	12	2.18
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	18	2.18
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	18	2.18
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	3	2.18
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	17	2.18
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	19	2.17
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	9	2.17
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	1	2.17
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	12	2.17
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	12	2.17
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	8	2.17
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	12	2.17
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	2	2.17
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	2	2.17
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	19	2.17
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	3	2.17
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	19	2.17
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	14	2.17
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	13	2.17
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	13	2.17
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	13	2.16
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	1	2.16
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	18	2.16
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	18	2.16
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	15	2.16
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	19	2.16
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	19	2.16
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	3	2.16
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	6	2.16
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	3	2.16
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	12	2.15
(1,1975)	1:225:A:LEU:HG	1:226:A:ILE:HA	15	2.15
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	12	2.15
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	12	2.15
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	15	2.15
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	6	2.15
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	6	2.15
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	18	2.15
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	18	2.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	18	2.15
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	1	2.15
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	1	2.15
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	14	2.15
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	9	2.15
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	9	2.15
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	11	2.15
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	11	2.15
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	3	2.15
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	1	2.14
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	5	2.14
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	13	2.14
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	13	2.14
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	1	2.14
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	1	2.14
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	4	2.14
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	4	2.14
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	16	2.14
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	10	2.14
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	12	2.14
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	11	2.14
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	1	2.14
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	13	2.13
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	12	2.13
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	9	2.13
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	20	2.13
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	18	2.13
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	18	2.13
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	9	2.13
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	9	2.13
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	14	2.13
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	6	2.13
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	3	2.13
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	10	2.13
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	10	2.13
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	3	2.13
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	8	2.13
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	15	2.13
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	12	2.13
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	20	2.13
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	20	2.13
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	9	2.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	15	2.13
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	7	2.13
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	6	2.13
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	7	2.13
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	2	2.13
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	1	2.12
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	18	2.12
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	18	2.12
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	4	2.12
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	15	2.12
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	3	2.12
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	3	2.12
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	11	2.12
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	16	2.12
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	3	2.12
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	16	2.12
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	7	2.12
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	7	2.12
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	13	2.12
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	13	2.12
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	20	2.12
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	15	2.11
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	2	2.11
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	2	2.11
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	14	2.11
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	9	2.11
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	7	2.11
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	20	2.11
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	20	2.11
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	20	2.11
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	20	2.11
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	17	2.11
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	18	2.11
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	14	2.11
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	20	2.11
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	4	2.11
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	4	2.11
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	4	2.11
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	4	2.11
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	13	2.11
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	3	2.11
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	1	2.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	16	2.11
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	16	2.11
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	16	2.11
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	16	2.11
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	1	2.11
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	3	2.11
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	3	2.11
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	18	2.11
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	18	2.11
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	20	2.11
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	20	2.11
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	20	2.11
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	16	2.11
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	16	2.11
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	15	2.1
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	15	2.1
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	15	2.1
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	15	2.1
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	2	2.1
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	10	2.1
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	10	2.1
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	15	2.1
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	15	2.1
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	19	2.1
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	15	2.1
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	11	2.1
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	11	2.1
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	6	2.1
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	16	2.1
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	8	2.1
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	8	2.1
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	5	2.1
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	5	2.1
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	17	2.1
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	17	2.1
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	3	2.1
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	12	2.09
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	9	2.09
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	9	2.09
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	14	2.09
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	14	2.09
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	5	2.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	12	2.09
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	4	2.09
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	1	2.09
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	1	2.09
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	2	2.09
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	2	2.09
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	20	2.09
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	15	2.09
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	9	2.09
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	4	2.09
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	4	2.09
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	18	2.08
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	3	2.08
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	12	2.08
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	5	2.08
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	8	2.08
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	12	2.08
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	12	2.08
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	12	2.08
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	1	2.08
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	5	2.08
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	18	2.08
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	18	2.08
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	7	2.08
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	7	2.08
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	11	2.08
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	11	2.08
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	9	2.07
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	8	2.07
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	10	2.07
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	9	2.07
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	12	2.07
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	3	2.07
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	11	2.07
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	6	2.07
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	2	2.07
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	13	2.07
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	6	2.06
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	7	2.06
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	19	2.06
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	5	2.06
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	5	2.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	17	2.06
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	14	2.06
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	9	2.06
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	9	2.06
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	9	2.06
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	20	2.05
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	19	2.05
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	3	2.05
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	4	2.05
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	12	2.05
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	12	2.05
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	14	2.05
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	14	2.05
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	14	2.05
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	14	2.05
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	5	2.05
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	8	2.05
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	8	2.05
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	14	2.05
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	9	2.05
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	14	2.05
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	8	2.05
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	8	2.05
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	1	2.05
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	2	2.04
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	17	2.04
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	17	2.04
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	17	2.04
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	17	2.04
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	13	2.04
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	13	2.04
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	13	2.04
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	10	2.04
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	10	2.04
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB2	1	2.04
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB3	1	2.04
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	10	2.04
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	7	2.04
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	5	2.04
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	5	2.04
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	5	2.04
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	5	2.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	9	2.04
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	4	2.04
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	4	2.04
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	8	2.03
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	2	2.03
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	2	2.03
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	2	2.03
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	16	2.03
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	7	2.03
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	7	2.03
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	7	2.03
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	11	2.03
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	11	2.03
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	14	2.03
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	14	2.03
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	14	2.03
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	14	2.03
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	14	2.03
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	9	2.03
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	7	2.03
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	7	2.03
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	8	2.03
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	7	2.03
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	10	2.03
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	10	2.03
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	10	2.02
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	7	2.02
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	7	2.02
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	1	2.02
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	13	2.02
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	20	2.02
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	15	2.02
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	15	2.02
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	9	2.02
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	9	2.02
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	19	2.02
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	19	2.02
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	14	2.02
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	12	2.02
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	8	2.02
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	8	2.02
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	20	2.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	2	2.01
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	2	2.01
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	17	2.01
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	17	2.01
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	16	2.01
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	16	2.01
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	13	2.01
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	10	2.01
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	17	2.01
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	14	2.01
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	3	2.01
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	18	2.01
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	18	2.01
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	1	2.01
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	6	2.01
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	5	2.01
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	5	2.01
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	5	2.01
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	5	2.01
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	4	2.01
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	18	2.01
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	2	2.01
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	2	2.01
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	6	2.0
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	6	2.0
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	13	2.0
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	14	2.0
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	12	2.0
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	1	2.0
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	18	2.0
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	18	2.0
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	18	2.0
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	18	2.0
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	10	2.0
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	8	2.0
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	4	2.0
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	8	2.0
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	8	2.0
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	8	2.0
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	9	2.0
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	8	2.0
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	8	2.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	12	2.0
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	17	2.0
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	17	2.0
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	20	2.0
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	10	2.0
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	19	2.0
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	19	2.0
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	9	2.0
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	17	1.99
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	7	1.99
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	5	1.99
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	7	1.99
(1,1426)	1:173:A:HIS:HB2	1:215:A:ASP:HA	16	1.99
(1,1426)	1:173:A:HIS:HB3	1:215:A:ASP:HA	16	1.99
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	4	1.99
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	5	1.99
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	17	1.99
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	11	1.99
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	11	1.99
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	17	1.99
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	10	1.99
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	11	1.99
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	11	1.99
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	11	1.98
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	12	1.98
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	12	1.98
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	11	1.98
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	11	1.98
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	18	1.98
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	18	1.98
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	4	1.98
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	18	1.98
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	20	1.98
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	20	1.98
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	6	1.98
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	12	1.98
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	6	1.98
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	2	1.98
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	18	1.98
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	13	1.98
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	7	1.98
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	7	1.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	7	1.98
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	3	1.98
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	3	1.98
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	3	1.98
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	3	1.98
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	7	1.98
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	7	1.98
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	6	1.97
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	7	1.97
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	7	1.97
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	18	1.97
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	18	1.97
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	9	1.97
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	9	1.97
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	9	1.97
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	10	1.97
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	17	1.97
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	1	1.97
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	8	1.97
(1,1062)	1:126:A:THR:H	1:127:A:LYS:H	3	1.97
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	9	1.97
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	12	1.97
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	7	1.97
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	20	1.97
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	15	1.97
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	15	1.97
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	16	1.97
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	13	1.97
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	1	1.96
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	1	1.96
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	8	1.96
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	8	1.96
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	8	1.96
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	8	1.96
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	3	1.96
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	7	1.96
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	7	1.96
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	5	1.96
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	19	1.96
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	7	1.96
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	20	1.96
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	20	1.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	11	1.96
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	14	1.96
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	7	1.96
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	7	1.96
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	15	1.96
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	10	1.96
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	10	1.96
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	5	1.96
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	5	1.96
(1,1936)	1:222:A:ILE:HD13	1:223:A:ASP:HA	17	1.95
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	20	1.95
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	10	1.95
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	18	1.95
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	18	1.95
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	3	1.95
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	16	1.95
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	16	1.95
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	1	1.95
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	20	1.95
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	14	1.95
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	10	1.95
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	8	1.95
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	8	1.95
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	7	1.95
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	7	1.95
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	14	1.95
(2,43)	1:151:A:SER:O	1:155:A:GLN:H	6	1.94
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	20	1.94
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	8	1.94
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	8	1.94
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	1	1.94
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	9	1.94
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	9	1.94
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	4	1.94
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	17	1.94
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	17	1.94
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	17	1.94
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	17	1.94
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	4	1.94
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	4	1.94
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	7	1.94
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	4	1.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	9	1.93
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	4	1.93
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	4	1.93
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	16	1.93
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	16	1.93
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	9	1.93
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	10	1.93
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	11	1.93
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	19	1.93
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	19	1.93
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	5	1.93
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	5	1.93
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	14	1.93
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	14	1.93
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	1	1.93
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	11	1.93
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	10	1.93
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	3	1.93
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	3	1.93
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	15	1.93
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	17	1.93
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	2	1.93
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	2	1.93
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	4	1.93
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	4	1.93
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	4	1.93
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	4	1.93
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	7	1.93
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	10	1.93
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	10	1.93
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	10	1.93
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	10	1.93
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	13	1.93
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	13	1.93
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	13	1.93
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	7	1.93
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	3	1.92
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	2	1.92
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	9	1.92
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG2	20	1.92
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG3	20	1.92
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	9	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	9	1.92
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	12	1.92
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	12	1.92
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	3	1.92
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	3	1.92
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	14	1.92
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	6	1.92
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	15	1.92
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	15	1.92
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	3	1.92
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB2	7	1.92
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB3	7	1.92
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	2	1.92
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	2	1.92
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	14	1.92
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	2	1.92
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	7	1.92
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	7	1.92
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	7	1.91
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	7	1.91
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	9	1.91
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	11	1.91
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	11	1.91
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	19	1.91
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	17	1.91
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	5	1.91
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	5	1.91
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	15	1.91
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	15	1.91
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	14	1.91
(1,452)	1:53:A:LEU:HD13	1:56:A:HIS:HA	1	1.91
(1,452)	1:53:A:LEU:HD23	1:56:A:HIS:HA	1	1.91
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	3	1.91
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	3	1.91
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	20	1.91
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	15	1.91
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	15	1.91
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	11	1.91
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	19	1.91
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	19	1.91
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	19	1.91
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	6	1.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	15	1.9
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	6	1.9
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	7	1.9
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	16	1.9
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	16	1.9
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	8	1.9
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	1	1.9
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	7	1.9
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	6	1.9
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	3	1.9
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	1	1.9
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	1	1.9
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	3	1.9
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	3	1.9
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	15	1.9
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	15	1.9
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	1	1.9
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	10	1.9
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	7	1.9
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	5	1.9
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	5	1.9
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	5	1.9
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	5	1.9
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	20	1.9
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	11	1.9
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	8	1.9
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	8	1.9
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	4	1.9
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	4	1.9
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	4	1.9
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	4	1.9
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	4	1.9
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	16	1.89
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	16	1.89
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	6	1.89
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	1	1.89
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	1	1.89
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	5	1.89
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	5	1.89
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	19	1.89
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	19	1.89
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	17	1.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	3	1.89
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	17	1.89
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	5	1.89
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	20	1.89
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	15	1.89
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	15	1.89
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	17	1.89
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	10	1.89
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	16	1.89
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	17	1.89
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	17	1.89
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	10	1.89
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	5	1.89
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	11	1.89
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	13	1.89
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	6	1.89
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	8	1.89
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	8	1.89
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	17	1.89
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	17	1.89
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	20	1.89
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	19	1.89
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	19	1.89
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	2	1.89
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	16	1.88
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	16	1.88
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	16	1.88
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	16	1.88
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	13	1.88
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	13	1.88
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	11	1.88
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	20	1.88
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	20	1.88
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	10	1.88
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	11	1.88
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	8	1.88
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	20	1.88
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	15	1.88
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	12	1.88
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	10	1.88
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG2	10	1.88
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG3	10	1.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG2	10	1.88
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG3	10	1.88
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	8	1.88
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	8	1.88
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	8	1.88
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	3	1.88
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	3	1.88
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	9	1.88
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	14	1.88
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	5	1.88
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	5	1.88
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	16	1.88
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	5	1.88
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	5	1.88
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	4	1.88
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	20	1.87
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	20	1.87
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	18	1.87
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	18	1.87
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	6	1.87
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	12	1.87
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	12	1.87
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	2	1.87
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	13	1.87
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	2	1.87
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	2	1.87
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	4	1.87
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	16	1.87
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	20	1.87
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	1	1.87
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	7	1.87
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	17	1.87
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	17	1.87
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	7	1.87
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	5	1.87
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	4	1.86
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	4	1.86
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	13	1.86
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	11	1.86
(1,1974)	1:225:A:LEU:HG	1:226:A:ILE:H	15	1.86
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	6	1.86
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	15	1.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	8	1.86
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	7	1.86
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	7	1.86
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	15	1.86
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	15	1.86
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	15	1.86
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	15	1.86
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	18	1.86
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	18	1.86
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	7	1.86
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	18	1.86
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	19	1.86
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	12	1.86
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	15	1.86
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	1	1.86
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	7	1.86
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	7	1.86
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	18	1.85
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	18	1.85
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	18	1.85
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	18	1.85
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	9	1.85
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	9	1.85
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	7	1.85
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	7	1.85
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	13	1.85
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	13	1.85
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	16	1.85
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	13	1.85
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	10	1.85
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	17	1.85
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	17	1.85
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	6	1.85
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	19	1.85
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	19	1.85
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	14	1.85
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	10	1.85
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	13	1.85
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	5	1.85
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	5	1.85
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	20	1.85
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	5	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	15	1.85
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	15	1.85
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	3	1.85
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	16	1.85
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	5	1.84
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	5	1.84
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	7	1.84
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	7	1.84
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	17	1.84
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	12	1.84
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	3	1.84
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	16	1.84
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	11	1.84
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	11	1.84
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	11	1.84
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	11	1.84
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	11	1.84
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	14	1.84
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	14	1.84
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	2	1.84
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	3	1.84
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	3	1.84
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	3	1.84
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	3	1.84
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	9	1.84
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	20	1.83
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	16	1.83
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	2	1.83
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	2	1.83
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	4	1.83
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	10	1.83
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	15	1.83
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	3	1.83
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	3	1.83
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	19	1.83
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	19	1.83
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	5	1.83
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	5	1.83
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	18	1.83
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	4	1.83
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	4	1.83
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	19	1.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	19	1.83
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	6	1.83
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	8	1.83
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	8	1.83
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	19	1.83
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	19	1.83
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	13	1.83
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	10	1.83
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	6	1.82
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	6	1.82
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	3	1.82
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	3	1.82
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	17	1.82
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	17	1.82
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	17	1.82
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	17	1.82
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	7	1.82
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	16	1.82
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	2	1.82
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	4	1.82
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	2	1.82
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	7	1.82
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	1	1.82
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	4	1.82
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	13	1.82
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	5	1.82
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	13	1.82
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	18	1.82
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	10	1.82
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	10	1.82
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	10	1.82
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	10	1.82
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	20	1.82
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	20	1.82
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	20	1.82
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	20	1.82
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	11	1.82
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	11	1.82
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	19	1.82
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	4	1.82
(2,34)	1:110:A:PHE:O	1:114:A:ALA:H	17	1.81
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	18	1.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	18	1.81
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	9	1.81
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	1	1.81
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB2	17	1.81
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB3	17	1.81
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	11	1.81
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	6	1.81
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	10	1.81
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	10	1.81
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	3	1.81
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	11	1.81
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	15	1.81
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	8	1.81
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	6	1.81
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	12	1.81
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	8	1.81
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	8	1.81
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	8	1.81
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	8	1.81
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	15	1.81
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	15	1.81
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	11	1.8
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	18	1.8
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	18	1.8
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	2	1.8
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	2	1.8
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	2	1.8
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	2	1.8
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	1	1.8
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	15	1.8
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	15	1.8
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	2	1.8
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	18	1.8
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	13	1.8
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	5	1.8
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	12	1.8
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	4	1.8
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	3	1.8
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	4	1.8
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	4	1.8
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	1	1.8
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG2	16	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG3	16	1.8
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	10	1.8
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	16	1.8
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	19	1.8
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	19	1.8
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	2	1.8
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	3	1.8
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	18	1.79
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	8	1.79
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	8	1.79
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	20	1.79
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	9	1.79
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	7	1.79
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	18	1.79
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	3	1.79
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	3	1.79
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	3	1.79
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	3	1.79
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	20	1.79
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	7	1.79
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	17	1.79
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	8	1.79
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	8	1.79
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	4	1.79
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	4	1.79
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	7	1.79
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	3	1.79
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	3	1.79
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	11	1.79
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	14	1.79
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	7	1.79
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	2	1.79
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	16	1.79
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	14	1.79
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	14	1.79
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	20	1.78
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	1	1.78
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	1	1.78
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	1	1.78
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	1	1.78
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	13	1.78
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	3	1.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	3	1.78
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	6	1.78
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	6	1.78
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	9	1.78
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	9	1.78
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	9	1.78
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	9	1.78
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	19	1.78
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	11	1.78
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	11	1.78
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	17	1.78
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	4	1.78
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	17	1.78
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	17	1.78
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	5	1.78
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	8	1.78
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	2	1.78
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	1	1.78
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	19	1.78
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	19	1.78
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	18	1.78
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	20	1.78
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	4	1.78
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	9	1.77
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	2	1.77
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	18	1.77
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	7	1.77
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	9	1.77
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	9	1.77
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	9	1.77
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	9	1.77
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	5	1.77
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	16	1.77
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	16	1.77
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	5	1.77
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	9	1.77
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	3	1.77
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	15	1.77
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	15	1.77
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	16	1.77
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	3	1.77
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	19	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	18	1.77
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	18	1.77
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	2	1.77
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	14	1.77
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	17	1.77
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	18	1.77
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	18	1.77
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	9	1.77
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	13	1.77
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	4	1.76
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	19	1.76
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	17	1.76
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	16	1.76
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	17	1.76
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	17	1.76
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	19	1.76
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	19	1.76
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	19	1.76
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	19	1.76
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	2	1.76
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	2	1.76
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	17	1.76
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	8	1.76
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	8	1.76
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	6	1.76
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	6	1.76
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	15	1.76
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	8	1.76
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	10	1.76
(1,841)	1:87:A:LYS:HE2	1:88:A:GLN:HA	18	1.76
(1,841)	1:87:A:LYS:HE3	1:88:A:GLN:HA	18	1.76
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	2	1.76
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	18	1.76
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	6	1.76
(1,306)	1:31:A:ILE:HG23	1:58:A:VAL:HB	2	1.76
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	16	1.76
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	16	1.76
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	16	1.76
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	16	1.76
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	17	1.76
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	2	1.76
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	2	1.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	2	1.76
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	2	1.76
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	11	1.75
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	11	1.75
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	19	1.75
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	19	1.75
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	19	1.75
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	19	1.75
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	14	1.75
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	14	1.75
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	15	1.75
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	10	1.75
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	19	1.75
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	19	1.75
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	1	1.75
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	8	1.75
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	5	1.75
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	5	1.75
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	16	1.75
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	16	1.75
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	17	1.75
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	20	1.75
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	8	1.75
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	8	1.75
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	8	1.75
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	8	1.75
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	18	1.75
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	14	1.75
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	15	1.75
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	3	1.75
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	3	1.75
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	1	1.75
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	7	1.75
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	7	1.75
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	3	1.75
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	1	1.74
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	1	1.74
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	13	1.74
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	12	1.74
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	6	1.74
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	6	1.74
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	17	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	17	1.74
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	17	1.74
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	17	1.74
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	17	1.74
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	17	1.74
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	11	1.74
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	15	1.74
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	6	1.74
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	12	1.74
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	6	1.74
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	6	1.74
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	2	1.74
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	19	1.74
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	5	1.74
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	5	1.74
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	8	1.74
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	13	1.74
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	17	1.74
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	2	1.74
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	1	1.74
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	6	1.74
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	8	1.73
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	20	1.73
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	9	1.73
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	18	1.73
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	9	1.73
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	18	1.73
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	4	1.73
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	20	1.73
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	5	1.73
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	12	1.73
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	12	1.73
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	12	1.73
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	12	1.73
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	15	1.73
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	12	1.73
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	1	1.73
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	16	1.73
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	12	1.73
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	13	1.73
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	13	1.73
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	18	1.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	18	1.73
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	5	1.73
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	6	1.73
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	5	1.73
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	5	1.73
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	5	1.73
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	7	1.72
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	7	1.72
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	7	1.72
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	7	1.72
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	4	1.72
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	17	1.72
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	20	1.72
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	20	1.72
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	2	1.72
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	6	1.72
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	6	1.72
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	10	1.72
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	8	1.72
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	8	1.72
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	11	1.72
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	11	1.72
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	13	1.72
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	19	1.72
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	1	1.72
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	1	1.72
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	15	1.72
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	15	1.72
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	15	1.72
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	14	1.72
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	14	1.72
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	3	1.72
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	12	1.72
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	12	1.72
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	1	1.72
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	1	1.72
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	1	1.72
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	18	1.72
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	18	1.72
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	7	1.72
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	18	1.72
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	5	1.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	5	1.72
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	12	1.72
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	18	1.72
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	18	1.72
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	18	1.72
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	17	1.71
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	11	1.71
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	2	1.71
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	2	1.71
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	12	1.71
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	10	1.71
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	14	1.71
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	17	1.71
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	3	1.71
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	3	1.71
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	3	1.71
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	3	1.71
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	17	1.71
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	1	1.71
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	18	1.71
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	17	1.71
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	5	1.71
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD2	19	1.71
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD3	19	1.71
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	17	1.71
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	17	1.71
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	13	1.71
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	13	1.71
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	14	1.7
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	14	1.7
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	14	1.7
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	14	1.7
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	14	1.7
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	3	1.7
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	10	1.7
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	5	1.7
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	11	1.7
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	16	1.7
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	16	1.7
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	5	1.7
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	5	1.7
(1,307)	1:31:A:ILE:HG23	1:59:A:PHE:H	19	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	17	1.7
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	1	1.7
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	6	1.7
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	7	1.7
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	7	1.7
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	7	1.7
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	17	1.7
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	19	1.69
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	19	1.69
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	10	1.69
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	10	1.69
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	10	1.69
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	10	1.69
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	8	1.69
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	18	1.69
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD2	4	1.69
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD3	4	1.69
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	12	1.69
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	12	1.69
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	12	1.69
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	12	1.69
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	15	1.69
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	18	1.69
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	3	1.69
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	11	1.69
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	1	1.69
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	1	1.69
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	9	1.69
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	9	1.69
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	3	1.69
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	20	1.69
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	20	1.69
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	20	1.69
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	19	1.69
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	19	1.69
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	5	1.69
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	5	1.69
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	10	1.69
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	10	1.69
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	2	1.68
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	10	1.68
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	10	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	3	1.68
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	1	1.68
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	3	1.68
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	3	1.68
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	13	1.68
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	13	1.68
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	11	1.68
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	11	1.68
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	11	1.68
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	11	1.68
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	7	1.68
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	7	1.68
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	7	1.68
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	7	1.68
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	1	1.68
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	1	1.68
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	9	1.68
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	9	1.68
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	19	1.68
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	19	1.68
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	11	1.68
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	15	1.68
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	20	1.68
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	11	1.68
(2,34)	1:110:A:PHE:O	1:114:A:ALA:H	3	1.67
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	10	1.67
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	14	1.67
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	14	1.67
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	3	1.67
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	3	1.67
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	10	1.67
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	10	1.67
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	19	1.67
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	18	1.67
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	19	1.67
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	18	1.67
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	6	1.67
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	12	1.67
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	8	1.67
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	8	1.67
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	12	1.67
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	18	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	19	1.67
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	3	1.67
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	8	1.67
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	13	1.67
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	13	1.67
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	8	1.67
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	8	1.67
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	17	1.67
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	15	1.67
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	15	1.67
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	4	1.67
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG2	3	1.67
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG3	3	1.67
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	3	1.67
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	3	1.67
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	18	1.67
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	9	1.67
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	11	1.67
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	11	1.67
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	11	1.67
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	13	1.67
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	19	1.67
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	12	1.66
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	17	1.66
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	4	1.66
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	4	1.66
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	4	1.66
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	4	1.66
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	5	1.66
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	15	1.66
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	17	1.66
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	8	1.66
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	19	1.66
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	19	1.66
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	20	1.66
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	13	1.66
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	7	1.66
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	2	1.66
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	2	1.66
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	5	1.66
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	14	1.66
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	1	1.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	12	1.66
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	11	1.66
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	12	1.66
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	13	1.66
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	12	1.66
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	12	1.66
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	19	1.65
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	19	1.65
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	19	1.65
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	19	1.65
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	3	1.65
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	18	1.65
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	16	1.65
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	16	1.65
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	15	1.65
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	15	1.65
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	10	1.65
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	4	1.65
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	15	1.65
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	19	1.65
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	11	1.65
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	5	1.65
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	7	1.65
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	15	1.65
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	15	1.65
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	15	1.65
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	15	1.65
(1,710)	1:75:A:SER:H	1:79:A:THR:H	16	1.65
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB2	6	1.65
(1,702)	1:74:A:ILE:HD13	1:75:A:SER:HB3	6	1.65
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	1	1.65
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	20	1.65
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	20	1.65
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	20	1.65
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	20	1.65
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	14	1.65
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	8	1.65
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	5	1.65
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	5	1.65
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	14	1.65
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	14	1.65
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	14	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	14	1.65
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	17	1.65
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	2	1.65
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	5	1.65
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	17	1.65
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	17	1.65
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	14	1.65
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	20	1.64
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	19	1.64
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	19	1.64
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	17	1.64
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	17	1.64
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	14	1.64
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	14	1.64
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	20	1.64
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	11	1.64
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	11	1.64
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	18	1.64
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	3	1.64
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	2	1.64
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	2	1.64
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	5	1.64
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	3	1.64
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	13	1.64
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	13	1.64
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	13	1.64
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	13	1.64
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	3	1.64
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	3	1.64
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	3	1.64
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	19	1.64
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	4	1.64
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	2	1.64
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	4	1.64
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	9	1.64
(1,2024)	1:227:A:LYS:H	1:230:A:THR:H	4	1.63
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	19	1.63
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	9	1.63
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	12	1.63
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	1	1.63
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	15	1.63
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	10	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	14	1.63
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	9	1.63
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	9	1.63
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	3	1.63
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	3	1.63
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	6	1.63
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	6	1.63
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	6	1.63
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	7	1.63
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	7	1.63
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	20	1.63
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	2	1.63
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	2	1.63
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	15	1.63
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	9	1.63
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	7	1.63
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD2	15	1.63
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD3	15	1.63
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	7	1.63
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	10	1.63
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	9	1.63
(1,582)	1:67:A:VAL:HG13	1:68:A:ALA:H	10	1.63
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB2	17	1.63
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB3	17	1.63
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB2	17	1.63
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB3	17	1.63
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	1	1.63
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	1	1.63
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	3	1.63
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	2	1.63
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	2	1.63
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	7	1.63
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	7	1.63
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	7	1.63
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	12	1.63
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	12	1.63
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	18	1.63
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	7	1.62
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	7	1.62
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	7	1.62
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	19	1.62
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	19	1.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	6	1.62
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	6	1.62
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	4	1.62
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	11	1.62
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	14	1.62
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	6	1.62
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	6	1.62
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	16	1.62
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	16	1.62
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	15	1.62
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	19	1.62
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	1	1.62
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	1	1.62
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	8	1.62
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	8	1.62
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	8	1.62
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	5	1.62
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	7	1.62
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	3	1.62
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	6	1.62
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	17	1.62
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	17	1.62
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	19	1.62
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	15	1.62
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	15	1.62
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	7	1.62
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	7	1.62
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	1	1.61
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	5	1.61
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	5	1.61
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	15	1.61
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	2	1.61
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	9	1.61
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	7	1.61
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	7	1.61
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	6	1.61
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	3	1.61
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	1	1.61
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	1	1.61
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	1	1.61
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	8	1.61
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	12	1.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	17	1.61
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	19	1.61
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	18	1.61
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	18	1.61
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	18	1.61
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	18	1.61
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	4	1.61
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	11	1.61
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	11	1.61
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	8	1.61
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	11	1.61
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	14	1.61
(1,703)	1:74:A:ILE:HD13	1:79:A:THR:HA	15	1.61
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	2	1.61
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	2	1.61
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	2	1.61
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	2	1.61
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	19	1.61
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	6	1.61
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	6	1.61
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	13	1.61
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	17	1.61
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	17	1.61
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	12	1.61
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	19	1.61
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	16	1.61
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	10	1.61
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	2	1.61
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	2	1.61
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	15	1.61
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	15	1.61
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	15	1.61
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	16	1.61
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	16	1.61
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	12	1.6
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	12	1.6
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	20	1.6
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	11	1.6
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	14	1.6
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	14	1.6
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	8	1.6
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	13	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	13	1.6
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	10	1.6
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	10	1.6
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	12	1.6
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	18	1.6
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	18	1.6
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	10	1.6
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	20	1.6
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	20	1.6
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	3	1.6
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	3	1.6
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	17	1.6
(1,703)	1:74:A:ILE:HD13	1:79:A:THR:HA	8	1.6
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	10	1.6
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	10	1.6
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	8	1.6
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	12	1.6
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	1	1.6
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	1	1.6
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	1	1.6
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	1	1.6
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	5	1.6
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	11	1.6
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	5	1.6
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	7	1.6
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	11	1.6
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	11	1.6
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	17	1.59
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	10	1.59
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	1	1.59
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	13	1.59
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	2	1.59
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	9	1.59
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	9	1.59
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	14	1.59
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	14	1.59
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	1	1.59
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	1	1.59
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	9	1.59
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	13	1.59
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	13	1.59
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	12	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	17	1.59
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	10	1.59
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	15	1.59
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	7	1.59
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	1	1.59
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	6	1.59
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	18	1.59
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	3	1.59
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	17	1.59
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	14	1.59
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	8	1.59
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	15	1.59
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	16	1.58
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	18	1.58
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	17	1.58
(1,2014)	1:226:A:ILE:HG23	1:230:A:THR:HG23	13	1.58
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	12	1.58
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	14	1.58
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	14	1.58
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	2	1.58
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	12	1.58
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	6	1.58
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	3	1.58
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	3	1.58
(1,1688)	1:193:A:LYS:HB2	1:198:A:VAL:HG23	1	1.58
(1,1688)	1:193:A:LYS:HB3	1:198:A:VAL:HG23	1	1.58
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	13	1.58
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	10	1.58
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	5	1.58
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	2	1.58
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	2	1.58
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	15	1.58
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	15	1.58
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	5	1.58
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	6	1.58
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	6	1.58
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	10	1.58
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	10	1.58
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	17	1.58
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	18	1.58
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	18	1.58
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	2	1.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	8	1.58
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	8	1.58
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	1	1.58
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	1	1.58
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	10	1.57
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	10	1.57
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	12	1.57
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	16	1.57
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	14	1.57
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	14	1.57
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	5	1.57
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	5	1.57
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	5	1.57
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	15	1.57
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	15	1.57
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	9	1.57
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	9	1.57
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	3	1.57
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	3	1.57
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	12	1.57
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	12	1.57
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	7	1.57
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	12	1.57
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	15	1.57
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	2	1.57
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	2	1.57
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	7	1.57
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	7	1.57
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	11	1.57
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	1	1.57
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	1	1.57
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	1	1.57
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	1	1.57
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	1	1.57
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	16	1.57
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	16	1.57
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	16	1.57
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	16	1.57
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	15	1.57
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	15	1.57
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	12	1.57
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	10	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	3	1.56
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	3	1.56
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	14	1.56
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	3	1.56
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	1	1.56
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	1	1.56
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	10	1.56
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	10	1.56
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	17	1.56
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	6	1.56
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	17	1.56
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	19	1.56
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	8	1.56
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	2	1.56
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	16	1.56
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	13	1.56
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	13	1.56
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	1	1.56
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	17	1.56
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	17	1.56
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	18	1.56
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	14	1.56
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	8	1.56
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	8	1.56
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	8	1.56
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	5	1.56
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	2	1.56
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	9	1.56
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	1	1.56
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	15	1.55
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	4	1.55
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	11	1.55
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	11	1.55
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	8	1.55
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	16	1.55
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	16	1.55
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	3	1.55
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	3	1.55
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	2	1.55
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	1	1.55
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	1	1.55
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	5	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	5	1.55
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	1	1.55
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	1	1.55
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	15	1.55
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	16	1.55
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	19	1.55
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	19	1.55
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	11	1.55
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	11	1.55
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	11	1.55
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	11	1.55
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	9	1.55
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	2	1.55
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	6	1.55
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	18	1.55
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	1	1.55
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	9	1.55
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	17	1.55
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	17	1.55
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	7	1.55
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	13	1.55
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	13	1.55
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	13	1.55
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	5	1.55
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	5	1.55
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	19	1.55
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	18	1.55
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	4	1.55
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	1	1.55
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	1	1.55
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	1	1.55
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	12	1.54
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	4	1.54
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	20	1.54
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	20	1.54
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	8	1.54
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	8	1.54
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	8	1.54
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	16	1.54
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	18	1.54
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	16	1.54
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	10	1.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	10	1.54
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	10	1.54
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	10	1.54
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	7	1.54
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	7	1.54
(1,1087)	1:131:A:THR:HG23	1:134:A:LEU:H	7	1.54
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	17	1.54
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	1	1.54
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	17	1.54
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	17	1.54
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	17	1.54
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	17	1.54
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	12	1.54
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	11	1.54
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	20	1.54
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	1	1.54
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	6	1.54
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	15	1.54
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	13	1.54
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	19	1.53
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	17	1.53
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	16	1.53
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	1	1.53
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	17	1.53
(1,1731)	1:198:A:VAL:HG13	1:210:A:ILE:HG23	12	1.53
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	11	1.53
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	5	1.53
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	5	1.53
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	17	1.53
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	17	1.53
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	2	1.53
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	11	1.53
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	11	1.53
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	11	1.53
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	15	1.53
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	10	1.53
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	10	1.53
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	16	1.53
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	11	1.53
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	20	1.53
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	18	1.53
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	15	1.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	18	1.53
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	18	1.53
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	15	1.53
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	1	1.53
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	1	1.53
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	6	1.53
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	6	1.53
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	2	1.53
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	2	1.53
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	13	1.53
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	11	1.53
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	11	1.53
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	11	1.53
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	11	1.53
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	13	1.53
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	19	1.53
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	2	1.53
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	2	1.53
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	8	1.52
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	8	1.52
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	1	1.52
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	1	1.52
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	4	1.52
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	3	1.52
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	3	1.52
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	19	1.52
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	11	1.52
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	1	1.52
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	4	1.52
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	4	1.52
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	16	1.52
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	16	1.52
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	16	1.52
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	16	1.52
(1,1462)	1:176:A:LEU:HG	1:237:A:GLU:H	19	1.52
(1,1341)	1:161:A:LYS:HE2	1:169:A:ILE:HD13	5	1.52
(1,1341)	1:161:A:LYS:HE3	1:169:A:ILE:HD13	5	1.52
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	15	1.52
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	8	1.52
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	3	1.52
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	3	1.52
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	12	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	16	1.52
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	1	1.52
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	17	1.52
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	9	1.52
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	8	1.52
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	6	1.52
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	18	1.52
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	17	1.52
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	19	1.52
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	16	1.52
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	16	1.52
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	8	1.51
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	20	1.51
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	15	1.51
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	2	1.51
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	3	1.51
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	11	1.51
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	11	1.51
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	11	1.51
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	11	1.51
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	11	1.51
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	6	1.51
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	15	1.51
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	10	1.51
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	3	1.51
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	3	1.51
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	7	1.51
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	14	1.51
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	3	1.51
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	7	1.51
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	18	1.51
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG13	11	1.51
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG23	11	1.51
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	3	1.51
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	3	1.51
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	1	1.51
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	1	1.51
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	18	1.51
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	18	1.51
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	18	1.51
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	18	1.51
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	2	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	9	1.51
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	9	1.51
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	13	1.51
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB2	9	1.5
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB3	9	1.5
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	12	1.5
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	17	1.5
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	19	1.5
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	8	1.5
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	18	1.5
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	18	1.5
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	8	1.5
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	17	1.5
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	17	1.5
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	17	1.5
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	17	1.5
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	1	1.5
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	13	1.5
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	5	1.5
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	9	1.5
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	4	1.5
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	1	1.5
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	17	1.5
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	4	1.5
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	1	1.5
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	16	1.5
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	16	1.5
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	16	1.5
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	9	1.5
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	8	1.5
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	17	1.5
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	17	1.5
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	18	1.5
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	18	1.5
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	14	1.5
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	14	1.5
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	15	1.5
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	4	1.5
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	10	1.5
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	7	1.5
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	7	1.5
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	11	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	11	1.49
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	13	1.49
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	20	1.49
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	6	1.49
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	6	1.49
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	1	1.49
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	1	1.49
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	19	1.49
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	19	1.49
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	13	1.49
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	13	1.49
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	6	1.49
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	6	1.49
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	8	1.49
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	8	1.49
(1,1462)	1:176:A:LEU:HG	1:237:A:GLU:H	9	1.49
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	17	1.49
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	6	1.49
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	11	1.49
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	3	1.49
(1,1087)	1:131:A:THR:HG23	1:134:A:LEU:H	10	1.49
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	16	1.49
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	16	1.49
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	11	1.49
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	11	1.49
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	3	1.49
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	20	1.49
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	20	1.49
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	20	1.49
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	20	1.49
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	9	1.49
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	9	1.49
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	9	1.49
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	13	1.49
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	13	1.49
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	20	1.49
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	20	1.49
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	11	1.49
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	18	1.49
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	17	1.49
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	17	1.49
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	17	1.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	14	1.49
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	11	1.48
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	4	1.48
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	13	1.48
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	19	1.48
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	19	1.48
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	14	1.48
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	12	1.48
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	12	1.48
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	12	1.48
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	12	1.48
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	13	1.48
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	12	1.48
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	19	1.48
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	19	1.48
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	6	1.48
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	12	1.48
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	20	1.48
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	11	1.48
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	11	1.48
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	11	1.48
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	16	1.48
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	20	1.48
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	7	1.48
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	7	1.48
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	12	1.48
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	14	1.48
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	14	1.48
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	14	1.48
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	14	1.48
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	1	1.48
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	2	1.48
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	2	1.48
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	2	1.48
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	2	1.48
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	10	1.48
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	10	1.48
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	17	1.48
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	17	1.48
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	8	1.48
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	5	1.48
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	12	1.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	16	1.48
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	5	1.48
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	9	1.48
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	1	1.47
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	1	1.47
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	1	1.47
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	1	1.47
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	20	1.47
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	20	1.47
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	14	1.47
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	14	1.47
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	5	1.47
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	19	1.47
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	1	1.47
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	1	1.47
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	13	1.47
(1,1731)	1:198:A:VAL:HG13	1:210:A:ILE:HG23	4	1.47
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG2	7	1.47
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG3	7	1.47
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	16	1.47
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	16	1.47
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	16	1.47
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	6	1.47
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	13	1.47
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	18	1.47
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	18	1.47
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	4	1.47
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	2	1.47
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	2	1.47
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	12	1.47
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	12	1.47
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	9	1.47
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	9	1.47
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	7	1.47
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	7	1.47
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	7	1.47
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	5	1.47
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	4	1.47
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	1	1.47
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	19	1.47
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	19	1.47
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	6	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	8	1.47
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	4	1.47
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	4	1.47
(1,307)	1:31:A:ILE:HG23	1:59:A:PHE:H	2	1.47
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	12	1.47
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	12	1.47
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	12	1.47
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	12	1.47
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	12	1.47
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	12	1.47
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	19	1.47
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	19	1.47
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	17	1.47
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	6	1.46
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	20	1.46
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	7	1.46
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	17	1.46
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	17	1.46
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	17	1.46
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	10	1.46
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	13	1.46
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	11	1.46
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	5	1.46
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	13	1.46
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	2	1.46
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	20	1.46
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	1	1.46
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	1	1.46
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	18	1.46
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	12	1.46
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	10	1.46
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	6	1.46
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	13	1.46
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	6	1.46
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	16	1.46
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	8	1.46
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	9	1.46
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	3	1.46
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	3	1.46
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB2	20	1.46
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB3	20	1.46
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	14	1.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	14	1.46
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	14	1.46
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	14	1.46
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	5	1.46
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	5	1.46
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	1	1.45
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	6	1.45
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	6	1.45
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	6	1.45
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	6	1.45
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	20	1.45
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	16	1.45
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	19	1.45
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	13	1.45
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	2	1.45
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	10	1.45
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	13	1.45
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	13	1.45
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB2	4	1.45
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB3	4	1.45
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	19	1.45
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	7	1.45
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	7	1.45
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	4	1.45
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	16	1.45
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	1	1.45
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	16	1.45
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	16	1.45
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	1	1.45
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	4	1.45
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	15	1.45
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	15	1.45
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	19	1.45
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	19	1.45
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	17	1.45
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	17	1.45
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	1	1.45
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	1	1.45
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	17	1.45
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	17	1.45
(1,2135)	1:238:A:VAL:H	1:238:A:VAL:HG23	12	1.44
(1,1933)	1:222:A:ILE:HG12	1:226:A:ILE:H	19	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1933)	1:222:A:ILE:HG13	1:226:A:ILE:H	19	1.44
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	8	1.44
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	1	1.44
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	16	1.44
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	3	1.44
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG12	4	1.44
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG13	4	1.44
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG12	4	1.44
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG13	4	1.44
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	1	1.44
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	1	1.44
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	11	1.44
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	11	1.44
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	13	1.44
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	13	1.44
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	2	1.44
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	15	1.44
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	19	1.44
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	6	1.44
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	3	1.44
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	3	1.44
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	10	1.44
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	10	1.44
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	10	1.44
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	15	1.44
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	15	1.44
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	20	1.44
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	2	1.44
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	7	1.44
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	14	1.44
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	6	1.44
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	11	1.44
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	11	1.44
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	11	1.44
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	11	1.44
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	16	1.44
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	16	1.44
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	19	1.44
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	10	1.44
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	2	1.44
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	11	1.44
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	6	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	6	1.44
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	6	1.44
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	20	1.44
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	5	1.44
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	2	1.44
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	10	1.44
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	10	1.44
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	10	1.44
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	3	1.44
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	3	1.44
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	6	1.44
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	6	1.44
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	2	1.44
(1,70)	1:13:A:ARG:HB2	1:15:A:THR:HG23	7	1.44
(1,70)	1:13:A:ARG:HB3	1:15:A:THR:HG23	7	1.44
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	15	1.44
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	19	1.43
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	19	1.43
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	11	1.43
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	11	1.43
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	8	1.43
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	8	1.43
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	15	1.43
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	6	1.43
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	1	1.43
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	1	1.43
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	2	1.43
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	14	1.43
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	14	1.43
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	5	1.43
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	12	1.43
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	18	1.43
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	18	1.43
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	11	1.43
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	2	1.43
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	16	1.43
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	17	1.43
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	17	1.43
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	17	1.43
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	17	1.43
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	17	1.43
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	16	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	16	1.43
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	17	1.43
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	17	1.43
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	18	1.43
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	9	1.43
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	9	1.43
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	6	1.43
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	9	1.43
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	13	1.43
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	13	1.43
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	13	1.43
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	13	1.43
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	20	1.43
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	10	1.43
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	10	1.43
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	9	1.43
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	16	1.43
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	14	1.43
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	9	1.43
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	19	1.43
(1,307)	1:31:A:ILE:HG23	1:59:A:PHE:H	9	1.43
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	18	1.43
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	9	1.43
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	9	1.43
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	15	1.43
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	9	1.43
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	9	1.43
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	9	1.43
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	9	1.43
(2,34)	1:110:A:PHE:O	1:114:A:ALA:H	8	1.42
(1,2159)	1:243:A:ASP:HB2	1:244:A:VAL:HG13	1	1.42
(1,2159)	1:243:A:ASP:HB3	1:244:A:VAL:HG13	1	1.42
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	16	1.42
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	2	1.42
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	9	1.42
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	9	1.42
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	5	1.42
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	16	1.42
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	16	1.42
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	5	1.42
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	14	1.42
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	12	1.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	15	1.42
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	9	1.42
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	10	1.42
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	10	1.42
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	10	1.42
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	10	1.42
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	16	1.42
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	16	1.42
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	3	1.42
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	17	1.42
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	20	1.42
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	17	1.42
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	17	1.42
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	10	1.42
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	14	1.42
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	16	1.42
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	16	1.42
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	5	1.42
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	3	1.42
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	7	1.42
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	15	1.42
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	17	1.42
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	17	1.42
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	7	1.42
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	17	1.41
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	8	1.41
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	16	1.41
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	3	1.41
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	17	1.41
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	17	1.41
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	6	1.41
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	6	1.41
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	18	1.41
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	18	1.41
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	8	1.41
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	17	1.41
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	11	1.41
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	1	1.41
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	3	1.41
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	5	1.41
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	3	1.41
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	18	1.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	2	1.41
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	2	1.41
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	2	1.41
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	2	1.41
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	20	1.41
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	6	1.41
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	13	1.41
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	6	1.41
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	6	1.41
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	8	1.41
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	2	1.41
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	20	1.41
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	15	1.41
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	20	1.41
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	20	1.41
(1,339)	1:38:A:VAL:HG13	1:39:A:VAL:H	17	1.41
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	12	1.41
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	10	1.41
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	13	1.41
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	14	1.41
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	14	1.41
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	14	1.41
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	14	1.41
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	10	1.41
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	13	1.4
(1,2135)	1:238:A:VAL:H	1:238:A:VAL:HG23	11	1.4
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	10	1.4
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	10	1.4
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	11	1.4
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	11	1.4
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	18	1.4
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	5	1.4
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	9	1.4
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	5	1.4
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	7	1.4
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	7	1.4
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	16	1.4
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	12	1.4
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	12	1.4
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	8	1.4
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	17	1.4
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	6	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	8	1.4
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	9	1.4
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	3	1.4
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	11	1.4
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	10	1.4
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	4	1.4
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	20	1.4
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	15	1.4
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	9	1.4
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	9	1.4
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	14	1.4
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	8	1.4
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	15	1.4
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	16	1.4
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	10	1.4
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	10	1.4
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	6	1.4
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	12	1.4
(2,71)	1:226:A:ILE:O	1:230:A:THR:H	4	1.39
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	4	1.39
(1,2135)	1:238:A:VAL:H	1:238:A:VAL:HG23	8	1.39
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	5	1.39
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	20	1.39
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	20	1.39
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	9	1.39
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	16	1.39
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	18	1.39
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	2	1.39
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	8	1.39
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	6	1.39
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	6	1.39
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	17	1.39
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	17	1.39
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	4	1.39
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	6	1.39
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	6	1.39
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	17	1.39
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	13	1.39
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	17	1.39
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	17	1.39
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	10	1.39
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	16	1.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	16	1.39
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	4	1.39
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	9	1.39
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	9	1.39
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	3	1.39
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	20	1.39
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	19	1.39
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	10	1.39
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	2	1.39
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	10	1.39
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	20	1.39
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	6	1.39
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	15	1.39
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	5	1.39
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	18	1.39
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	18	1.39
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	19	1.39
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	19	1.39
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	17	1.39
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	17	1.39
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	7	1.39
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	7	1.39
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	10	1.39
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	19	1.38
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	19	1.38
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	10	1.38
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	10	1.38
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	11	1.38
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	11	1.38
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	11	1.38
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	19	1.38
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	15	1.38
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	12	1.38
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	6	1.38
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	6	1.38
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	14	1.38
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	14	1.38
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	15	1.38
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	6	1.38
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	20	1.38
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	17	1.38
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	11	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	15	1.38
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	1	1.38
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	1	1.38
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	1	1.38
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	1	1.38
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	17	1.38
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	17	1.38
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	17	1.38
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	17	1.38
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	13	1.38
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	15	1.38
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	15	1.38
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	19	1.38
(1,841)	1:87:A:LYS:HE2	1:88:A:GLN:HA	10	1.38
(1,841)	1:87:A:LYS:HE3	1:88:A:GLN:HA	10	1.38
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	3	1.38
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	5	1.38
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	18	1.38
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	17	1.38
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	1	1.38
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	1	1.38
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	8	1.38
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	5	1.38
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	1	1.38
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	6	1.38
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	6	1.38
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	7	1.37
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	10	1.37
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	4	1.37
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	12	1.37
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	14	1.37
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	20	1.37
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	16	1.37
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	18	1.37
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	16	1.37
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	9	1.37
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	9	1.37
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG2	14	1.37
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG3	14	1.37
(1,1608)	1:188:A:LEU:HB2	1:192:A:LEU:H	17	1.37
(1,1608)	1:188:A:LEU:HB3	1:192:A:LEU:H	17	1.37
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	4	1.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	13	1.37
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	13	1.37
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	14	1.37
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	4	1.37
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	4	1.37
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	19	1.37
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	5	1.37
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	15	1.37
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	10	1.37
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	10	1.37
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	3	1.37
(1,1087)	1:131:A:THR:HG23	1:134:A:LEU:H	9	1.37
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	16	1.37
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	14	1.37
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	6	1.37
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	5	1.37
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	3	1.37
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	3	1.37
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	3	1.37
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	3	1.37
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	20	1.37
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	4	1.37
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	17	1.37
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	14	1.37
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	14	1.37
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	11	1.37
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	11	1.37
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	19	1.37
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	19	1.37
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	13	1.37
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	13	1.37
(2,33)	1:109:A:MET:O	1:113:A:ILE:H	14	1.36
(1,2135)	1:238:A:VAL:H	1:238:A:VAL:HG23	15	1.36
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	16	1.36
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	18	1.36
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	13	1.36
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	13	1.36
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	2	1.36
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	9	1.36
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	17	1.36
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	4	1.36
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	17	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	17	1.36
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	6	1.36
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	6	1.36
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	5	1.36
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	5	1.36
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	9	1.36
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	9	1.36
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	15	1.36
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	15	1.36
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	13	1.36
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	2	1.36
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	8	1.36
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	15	1.36
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	15	1.36
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	14	1.36
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	19	1.36
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	7	1.36
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	12	1.36
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	9	1.36
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	10	1.36
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	5	1.36
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	13	1.36
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	1	1.36
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	1	1.36
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	18	1.36
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	1	1.36
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	3	1.36
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	17	1.36
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	19	1.36
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	20	1.36
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	1	1.36
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	3	1.36
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	18	1.36
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	11	1.36
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	11	1.36
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	10	1.36
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	10	1.36
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	19	1.36
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	20	1.36
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	12	1.36
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	3	1.36
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	3	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	5	1.36
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	5	1.36
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	16	1.35
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	16	1.35
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	16	1.35
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	16	1.35
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	18	1.35
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	19	1.35
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	3	1.35
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	3	1.35
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	11	1.35
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	2	1.35
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	17	1.35
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	18	1.35
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	18	1.35
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	9	1.35
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	10	1.35
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	10	1.35
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	17	1.35
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	9	1.35
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	9	1.35
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	3	1.35
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	3	1.35
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	2	1.35
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	2	1.35
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	2	1.35
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	2	1.35
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	2	1.35
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	3	1.35
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	3	1.35
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	20	1.35
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	13	1.35
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	13	1.35
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	20	1.35
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	1	1.35
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	10	1.35
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	10	1.35
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	4	1.35
(1,1000)	1:116:A:ILE:HB	1:117:A:VAL:HB	19	1.35
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	15	1.35
(1,896)	1:90:A:LEU:HD13	1:95:A:VAL:HG23	14	1.35
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG13	14	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG23	14	1.35
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	9	1.35
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	14	1.35
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	14	1.35
(1,710)	1:75:A:SER:H	1:79:A:THR:H	11	1.35
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	4	1.35
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	14	1.35
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	4	1.35
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	10	1.35
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	19	1.35
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	19	1.35
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	2	1.35
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	2	1.35
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	9	1.35
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	8	1.35
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	10	1.34
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	16	1.34
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	1	1.34
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	1	1.34
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	5	1.34
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	5	1.34
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	4	1.34
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	13	1.34
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	13	1.34
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	2	1.34
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	2	1.34
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	19	1.34
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	8	1.34
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	5	1.34
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	13	1.34
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	2	1.34
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD2	8	1.34
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD3	8	1.34
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	14	1.34
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	16	1.34
(1,1316)	1:160:A:ILE:H	1:161:A:LYS:HG2	20	1.34
(1,1316)	1:160:A:ILE:H	1:161:A:LYS:HG3	20	1.34
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	8	1.34
(1,1198)	1:140:A:LYS:H	1:143:A:HIS:H	20	1.34
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	10	1.34
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	1	1.34
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	1	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	15	1.34
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	3	1.34
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	13	1.34
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	13	1.34
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	17	1.34
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	14	1.34
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	7	1.34
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	18	1.34
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	18	1.34
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	17	1.34
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	17	1.34
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	17	1.34
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	8	1.34
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	14	1.34
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	14	1.34
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	16	1.34
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	14	1.34
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	4	1.34
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	17	1.34
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	8	1.34
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	8	1.34
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	8	1.34
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	20	1.34
(1,240)	1:24:A:ARG:HA	1:24:A:ARG:HD2	19	1.34
(1,240)	1:24:A:ARG:HA	1:24:A:ARG:HD3	19	1.34
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	14	1.34
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	14	1.34
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	16	1.34
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	16	1.34
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	14	1.34
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	14	1.34
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	6	1.34
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	17	1.34
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	5	1.34
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	4	1.34
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	14	1.34
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	12	1.34
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	1	1.33
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	5	1.33
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	7	1.33
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	18	1.33
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	18	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	1	1.33
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	2	1.33
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	2	1.33
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	10	1.33
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	2	1.33
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	2	1.33
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	12	1.33
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	2	1.33
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	12	1.33
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	1	1.33
(1,1349)	1:162:A:GLN:HG2	1:163:A:LEU:HA	1	1.33
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	1	1.33
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	7	1.33
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	7	1.33
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	14	1.33
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	6	1.33
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	8	1.33
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	8	1.33
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	17	1.33
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	17	1.33
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	3	1.33
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	19	1.33
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	20	1.33
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	20	1.33
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	20	1.33
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	20	1.33
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE2	6	1.33
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE3	6	1.33
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE2	6	1.33
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE3	6	1.33
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	5	1.33
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	5	1.33
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	6	1.33
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	6	1.33
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	14	1.33
(1,841)	1:87:A:LYS:HE2	1:88:A:GLN:HA	16	1.33
(1,841)	1:87:A:LYS:HE3	1:88:A:GLN:HA	16	1.33
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	18	1.33
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	5	1.33
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	10	1.33
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	16	1.33
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	5	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	5	1.33
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	9	1.33
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	20	1.33
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	14	1.33
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	14	1.33
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	14	1.33
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	14	1.33
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	15	1.33
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	15	1.33
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	12	1.32
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	5	1.32
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	13	1.32
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	16	1.32
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	16	1.32
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	5	1.32
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	5	1.32
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	1	1.32
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	2	1.32
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	5	1.32
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	15	1.32
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	15	1.32
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	20	1.32
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	9	1.32
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	7	1.32
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	10	1.32
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	18	1.32
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	18	1.32
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	14	1.32
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	2	1.32
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	12	1.32
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	5	1.32
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	5	1.32
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	10	1.32
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	20	1.32
(1,710)	1:75:A:SER:H	1:79:A:THR:H	2	1.32
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	15	1.32
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	15	1.32
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	8	1.32
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	3	1.32
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	3	1.32
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	1	1.32
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	9	1.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	16	1.32
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	16	1.32
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	5	1.32
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	5	1.32
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	15	1.32
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	18	1.31
(1,2135)	1:238:A:VAL:H	1:238:A:VAL:HG23	6	1.31
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	17	1.31
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	11	1.31
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	18	1.31
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	20	1.31
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	8	1.31
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	10	1.31
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	1	1.31
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	16	1.31
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	17	1.31
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	17	1.31
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	15	1.31
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	15	1.31
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	13	1.31
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	13	1.31
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	13	1.31
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	13	1.31
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	4	1.31
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	4	1.31
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	14	1.31
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	1	1.31
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	1	1.31
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	1	1.31
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	1	1.31
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB2	8	1.31
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB3	8	1.31
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	7	1.31
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	14	1.31
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	14	1.31
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	5	1.31
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	18	1.31
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	2	1.31
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	2	1.31
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	14	1.31
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	1	1.31
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	1	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	4	1.31
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	2	1.31
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	9	1.31
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	4	1.31
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	17	1.31
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	15	1.3
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	15	1.3
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	15	1.3
(1,2158)	1:243:A:ASP:HB3	1:244:A:VAL:H	20	1.3
(1,2158)	1:243:A:ASP:HB2	1:244:A:VAL:H	20	1.3
(1,2158)	1:243:A:ASP:HB3	1:244:A:VAL:H	20	1.3
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	1	1.3
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	13	1.3
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	13	1.3
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	19	1.3
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	9	1.3
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	6	1.3
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	19	1.3
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	5	1.3
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	5	1.3
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD2	1	1.3
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD3	1	1.3
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD2	1	1.3
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD3	1	1.3
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	12	1.3
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	19	1.3
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	19	1.3
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	6	1.3
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	12	1.3
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	10	1.3
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	2	1.3
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	2	1.3
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	7	1.3
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	6	1.3
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	14	1.3
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	5	1.3
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	20	1.3
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	3	1.3
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	18	1.3
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	18	1.3
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	20	1.3
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	9	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	17	1.3
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	17	1.3
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	15	1.3
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	12	1.3
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	7	1.3
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	12	1.3
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	10	1.3
(1,243)	1:24:A:ARG:HB2	1:27:A:LYS:H	10	1.3
(1,243)	1:24:A:ARG:HB3	1:27:A:LYS:H	10	1.3
(1,240)	1:24:A:ARG:HA	1:24:A:ARG:HD2	7	1.3
(1,240)	1:24:A:ARG:HA	1:24:A:ARG:HD3	7	1.3
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	2	1.3
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	12	1.3
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	12	1.3
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	18	1.3
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	10	1.3
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	10	1.3
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	8	1.29
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	13	1.29
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	11	1.29
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	10	1.29
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	10	1.29
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	18	1.29
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	7	1.29
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	7	1.29
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	11	1.29
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	16	1.29
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	1	1.29
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	1	1.29
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	6	1.29
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	18	1.29
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	16	1.29
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	16	1.29
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	6	1.29
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	12	1.29
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	12	1.29
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	17	1.29
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	15	1.29
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	3	1.29
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	20	1.29
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	20	1.29
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	20	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	20	1.29
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	20	1.29
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	20	1.29
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	12	1.29
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	7	1.29
(1,703)	1:74:A:ILE:HD13	1:79:A:THR:HA	2	1.29
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	18	1.29
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	6	1.29
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	16	1.29
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	16	1.29
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	10	1.29
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	3	1.29
(1,330)	1:34:A:TYR:H	1:53:A:LEU:H	9	1.29
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	17	1.29
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	8	1.29
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	8	1.29
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	17	1.29
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	10	1.29
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	11	1.28
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	19	1.28
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	13	1.28
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	3	1.28
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	3	1.28
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	17	1.28
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	17	1.28
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	16	1.28
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	16	1.28
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	16	1.28
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	16	1.28
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	16	1.28
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	16	1.28
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	14	1.28
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	8	1.28
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	17	1.28
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	17	1.28
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	15	1.28
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	19	1.28
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	19	1.28
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	20	1.28
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	3	1.28
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	6	1.28
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	20	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	7	1.28
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	7	1.28
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	18	1.28
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	3	1.28
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	13	1.28
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	18	1.28
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	17	1.28
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	17	1.28
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	11	1.28
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	15	1.28
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	13	1.28
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	10	1.28
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	9	1.28
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	7	1.28
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	16	1.28
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	9	1.28
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	4	1.28
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	3	1.28
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG2	18	1.28
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG3	18	1.28
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG2	18	1.28
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG3	18	1.28
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	11	1.28
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	1	1.28
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	11	1.28
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	13	1.28
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	8	1.28
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	17	1.28
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	4	1.28
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	13	1.28
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	3	1.28
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	3	1.28
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	3	1.28
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	3	1.28
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	9	1.28
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	9	1.28
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	11	1.28
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	11	1.28
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	17	1.28
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	9	1.28
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	8	1.28
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	8	1.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	15	1.28
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	15	1.28
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	2	1.28
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	2	1.28
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	7	1.28
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	1	1.28
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	9	1.28
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	5	1.27
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	5	1.27
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	5	1.27
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	7	1.27
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	15	1.27
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	19	1.27
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	18	1.27
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	20	1.27
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	20	1.27
(1,1933)	1:222:A:ILE:HG12	1:226:A:ILE:H	12	1.27
(1,1933)	1:222:A:ILE:HG13	1:226:A:ILE:H	12	1.27
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	18	1.27
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	18	1.27
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	14	1.27
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	14	1.27
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	14	1.27
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	14	1.27
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	6	1.27
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	5	1.27
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	12	1.27
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	12	1.27
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	16	1.27
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	16	1.27
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	17	1.27
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	16	1.27
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	4	1.27
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	4	1.27
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	18	1.27
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	18	1.27
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	11	1.27
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	15	1.27
(1,1349)	1:162:A:GLN:HG2	1:163:A:LEU:HA	15	1.27
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	15	1.27
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	14	1.27
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	14	1.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	14	1.27
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	14	1.27
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	18	1.27
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	14	1.27
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	14	1.27
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	7	1.27
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	15	1.27
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	18	1.27
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	18	1.27
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	14	1.27
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	14	1.27
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	16	1.27
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	19	1.27
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	5	1.27
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	14	1.27
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	17	1.27
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	1	1.27
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	1	1.27
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	1	1.27
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	1	1.27
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	1	1.27
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	1	1.27
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	6	1.27
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	4	1.27
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	8	1.27
(1,415)	1:49:A:LEU:HA	1:52:A:VAL:HG23	11	1.27
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	1	1.27
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	1	1.27
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	4	1.27
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	4	1.27
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	13	1.27
(1,256)	1:27:A:LYS:HG2	1:60:A:VAL:HA	7	1.27
(1,256)	1:27:A:LYS:HG3	1:60:A:VAL:HA	7	1.27
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	14	1.27
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	10	1.27
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	10	1.27
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	19	1.27
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	19	1.27
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	14	1.27
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	5	1.27
(2,43)	1:151:A:SER:O	1:155:A:GLN:H	13	1.26
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	17	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	18	1.26
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	8	1.26
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	14	1.26
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	18	1.26
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	14	1.26
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	14	1.26
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	19	1.26
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	7	1.26
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	3	1.26
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	19	1.26
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	9	1.26
(1,1198)	1:140:A:LYS:H	1:143:A:HIS:H	9	1.26
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	8	1.26
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	20	1.26
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	20	1.26
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	1	1.26
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	13	1.26
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	19	1.26
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	3	1.26
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	2	1.26
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	3	1.26
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	5	1.26
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	3	1.26
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	12	1.26
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	12	1.26
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	19	1.26
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG2	15	1.26
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG3	15	1.26
(1,452)	1:53:A:LEU:HD13	1:56:A:HIS:HA	18	1.26
(1,452)	1:53:A:LEU:HD23	1:56:A:HIS:HA	18	1.26
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	12	1.26
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	13	1.26
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	7	1.26
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	7	1.26
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	7	1.26
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	3	1.25
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	3	1.25
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	3	1.25
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	15	1.25
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	20	1.25
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	20	1.25
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	12	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	12	1.25
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	3	1.25
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	18	1.25
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	1	1.25
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	11	1.25
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	11	1.25
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	13	1.25
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	12	1.25
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	2	1.25
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	2	1.25
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	4	1.25
(1,1268)	1:154:A:GLN:HA	1:156:A:ALA:H	10	1.25
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	13	1.25
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	3	1.25
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	3	1.25
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	6	1.25
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	6	1.25
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	16	1.25
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	11	1.25
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	6	1.25
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	14	1.25
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	14	1.25
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	11	1.25
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	8	1.25
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	15	1.25
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	2	1.25
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	5	1.25
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	5	1.25
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	5	1.25
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	5	1.25
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	14	1.25
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	14	1.25
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	6	1.25
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	10	1.25
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	10	1.25
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	3	1.25
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	3	1.25
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	8	1.25
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	18	1.25
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	5	1.24
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	5	1.24
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	7	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	9	1.24
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	17	1.24
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	17	1.24
(1,1751)	1:199:A:ILE:HG23	1:200:A:GLU:H	16	1.24
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	20	1.24
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	13	1.24
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	13	1.24
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	2	1.24
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	12	1.24
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	10	1.24
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	10	1.24
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	11	1.24
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	11	1.24
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	4	1.24
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	2	1.24
(1,1310)	1:159:A:VAL:HB	1:160:A:ILE:H	13	1.24
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	13	1.24
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	2	1.24
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	6	1.24
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	10	1.24
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	19	1.24
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	5	1.24
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	5	1.24
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	5	1.24
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	5	1.24
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	4	1.24
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	8	1.24
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	5	1.24
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	17	1.24
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	17	1.24
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	5	1.24
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	13	1.24
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	11	1.24
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	17	1.24
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	17	1.24
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	6	1.24
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	13	1.24
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	18	1.24
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	14	1.24
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	14	1.24
(1,399)	1:47:A:LYS:HG2	1:48:A:ASP:H	10	1.24
(1,399)	1:47:A:LYS:HG3	1:48:A:ASP:H	10	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	9	1.24
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	5	1.24
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	17	1.24
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	17	1.24
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	14	1.24
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	12	1.23
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	9	1.23
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	15	1.23
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG2	12	1.23
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG3	12	1.23
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG2	12	1.23
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG3	12	1.23
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	17	1.23
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	11	1.23
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	11	1.23
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	7	1.23
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	7	1.23
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	10	1.23
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	19	1.23
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	19	1.23
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	7	1.23
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	7	1.23
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	10	1.23
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	19	1.23
(1,1349)	1:162:A:GLN:HG2	1:163:A:LEU:HA	19	1.23
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	19	1.23
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	17	1.23
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	17	1.23
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	3	1.23
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	7	1.23
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	10	1.23
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	9	1.23
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	2	1.23
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	19	1.23
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	19	1.23
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	6	1.23
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	1	1.23
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	5	1.23
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	15	1.23
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	15	1.23
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	16	1.23
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	14	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	9	1.23
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	12	1.23
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	8	1.23
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	20	1.23
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	20	1.23
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	11	1.23
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	11	1.23
(1,351)	1:39:A:VAL:H	1:40:A:GLY:H	20	1.23
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	3	1.23
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	20	1.23
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	20	1.23
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	1	1.23
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	18	1.23
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	18	1.23
(1,25)	1:11:A:GLN:H	1:12:A:ILE:H	20	1.23
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	8	1.23
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	7	1.22
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	5	1.22
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	3	1.22
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	6	1.22
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	6	1.22
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	12	1.22
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	17	1.22
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	17	1.22
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	8	1.22
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	8	1.22
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	9	1.22
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	9	1.22
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	19	1.22
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	19	1.22
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	1	1.22
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	3	1.22
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	12	1.22
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	15	1.22
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	2	1.22
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	2	1.22
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	5	1.22
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	19	1.22
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	19	1.22
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	18	1.22
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	18	1.22
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	18	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	18	1.22
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	4	1.22
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	4	1.22
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	4	1.22
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	4	1.22
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	4	1.22
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	19	1.22
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	14	1.22
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	19	1.22
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	19	1.22
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	4	1.22
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	2	1.22
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	12	1.22
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	19	1.22
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	6	1.22
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	7	1.22
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	7	1.22
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	8	1.22
(1,331)	1:34:A:TYR:H	1:53:A:LEU:HA	9	1.22
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	15	1.22
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	15	1.22
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	3	1.22
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	2	1.22
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	18	1.22
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	18	1.22
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	1	1.22
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	1	1.22
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	14	1.22
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	14	1.22
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	7	1.22
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	7	1.22
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	1	1.22
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	19	1.22
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	18	1.21
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	4	1.21
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	9	1.21
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	9	1.21
(1,2184)	1:246:A:GLU:HA	1:247:A:GLY:H	9	1.21
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	16	1.21
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	16	1.21
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	18	1.21
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	18	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	18	1.21
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	12	1.21
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	11	1.21
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	9	1.21
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	9	1.21
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	3	1.21
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	19	1.21
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	16	1.21
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	16	1.21
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	2	1.21
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	2	1.21
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	5	1.21
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	5	1.21
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	7	1.21
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	7	1.21
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	2	1.21
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	9	1.21
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	5	1.21
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	4	1.21
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	14	1.21
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	8	1.21
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	8	1.21
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	8	1.21
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	8	1.21
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	19	1.21
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	10	1.21
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	13	1.21
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	17	1.21
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	20	1.21
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	2	1.21
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB2	15	1.21
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB3	15	1.21
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	15	1.21
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	7	1.21
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	2	1.21
(1,967)	1:111:A:ARG:H	1:114:A:ALA:H	3	1.21
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG13	11	1.21
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG23	11	1.21
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	17	1.21
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	1	1.21
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	1	1.21
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	1	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	1	1.21
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	16	1.21
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	16	1.21
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	6	1.21
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	11	1.21
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	11	1.21
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	11	1.21
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	11	1.21
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	8	1.21
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	19	1.21
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	19	1.21
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	16	1.21
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	8	1.21
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	8	1.21
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	18	1.21
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	2	1.21
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	1	1.21
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	5	1.21
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	3	1.21
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	10	1.21
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	10	1.21
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	1	1.21
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	1	1.21
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	12	1.21
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	12	1.21
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	1	1.2
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	7	1.2
(2,43)	1:151:A:SER:O	1:155:A:GLN:H	14	1.2
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	17	1.2
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	8	1.2
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	20	1.2
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	11	1.2
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	9	1.2
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	7	1.2
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	7	1.2
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	4	1.2
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	20	1.2
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	8	1.2
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	2	1.2
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	7	1.2
(1,1087)	1:131:A:THR:HG23	1:134:A:LEU:H	18	1.2
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	1	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	12	1.2
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	9	1.2
(1,1024)	1:118:A:ALA:HB3	1:132:A:VAL:H	14	1.2
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	10	1.2
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	6	1.2
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG2	20	1.2
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG3	20	1.2
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	19	1.2
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	19	1.2
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	20	1.2
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	20	1.2
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	1	1.2
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	13	1.2
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	13	1.2
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	17	1.2
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	7	1.2
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	20	1.2
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	2	1.2
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	13	1.2
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	2	1.2
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	18	1.2
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	18	1.2
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	4	1.2
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	16	1.2
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	16	1.2
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	6	1.2
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	6	1.2
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	6	1.2
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	6	1.2
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	2	1.2
(1,256)	1:27:A:LYS:HG2	1:60:A:VAL:HA	3	1.2
(1,256)	1:27:A:LYS:HG3	1:60:A:VAL:HA	3	1.2
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	5	1.2
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	19	1.2
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	1	1.2
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	18	1.2
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	1	1.2
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	17	1.2
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	17	1.2
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	12	1.19
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	10	1.19
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	11	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	9	1.19
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	11	1.19
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	17	1.19
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	10	1.19
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	1	1.19
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	12	1.19
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	12	1.19
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	13	1.19
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	13	1.19
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	17	1.19
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	13	1.19
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	13	1.19
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	13	1.19
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	13	1.19
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	3	1.19
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	16	1.19
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	18	1.19
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	19	1.19
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	12	1.19
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	14	1.19
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	14	1.19
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	3	1.19
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	3	1.19
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	13	1.19
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	10	1.19
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	10	1.19
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	7	1.19
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	1	1.19
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	19	1.19
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	19	1.19
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	7	1.19
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	4	1.19
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	2	1.19
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	5	1.19
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	13	1.19
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	9	1.19
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	3	1.19
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	14	1.19
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	14	1.19
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	7	1.19
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	7	1.19
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	4	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	2	1.19
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	18	1.19
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	19	1.19
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	17	1.19
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	17	1.19
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	4	1.19
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	4	1.19
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	1	1.19
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	1	1.19
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	13	1.19
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	4	1.19
(1,306)	1:31:A:ILE:HG23	1:58:A:VAL:HB	16	1.19
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	1	1.19
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	2	1.19
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	2	1.19
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	2	1.19
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	2	1.19
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	6	1.19
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	6	1.19
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	16	1.19
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	15	1.19
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	15	1.18
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	17	1.18
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	15	1.18
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	9	1.18
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	9	1.18
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	7	1.18
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	7	1.18
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	1	1.18
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	6	1.18
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	14	1.18
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	3	1.18
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	3	1.18
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	12	1.18
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	1	1.18
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	7	1.18
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	10	1.18
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	10	1.18
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	10	1.18
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	10	1.18
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	1	1.18
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	11	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	12	1.18
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	17	1.18
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	16	1.18
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	4	1.18
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	17	1.18
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	1	1.18
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	1	1.18
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	5	1.18
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	2	1.18
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	18	1.18
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	18	1.18
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	12	1.18
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	13	1.18
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	14	1.18
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	18	1.18
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	15	1.18
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	9	1.18
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	16	1.18
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	16	1.18
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	7	1.18
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB2	17	1.18
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB3	17	1.18
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	2	1.18
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	20	1.18
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	20	1.18
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	7	1.18
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	17	1.18
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	17	1.18
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	18	1.18
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	12	1.18
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	12	1.18
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	4	1.17
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	7	1.17
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	9	1.17
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	20	1.17
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	4	1.17
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	16	1.17
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	4	1.17
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	10	1.17
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	6	1.17
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	6	1.17
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	4	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	4	1.17
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	7	1.17
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	5	1.17
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	5	1.17
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	1	1.17
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	11	1.17
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	11	1.17
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	15	1.17
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	13	1.17
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	15	1.17
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	16	1.17
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	8	1.17
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	8	1.17
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	8	1.17
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	10	1.17
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	10	1.17
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	2	1.17
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	16	1.17
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	12	1.17
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	12	1.17
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	17	1.17
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	6	1.17
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	9	1.17
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	13	1.17
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	16	1.17
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG13	10	1.17
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG23	10	1.17
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	7	1.17
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	7	1.17
(1,710)	1:75:A:SER:H	1:79:A:THR:H	8	1.17
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	6	1.17
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	6	1.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	7	1.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	7	1.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	7	1.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	7	1.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	17	1.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	17	1.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	17	1.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	17	1.17
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	11	1.17
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	17	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	1	1.17
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	1	1.17
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	9	1.17
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	9	1.17
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	19	1.17
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	11	1.17
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	12	1.17
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	12	1.17
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	12	1.17
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	12	1.17
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	4	1.17
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	1	1.17
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	8	1.17
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	10	1.17
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	16	1.17
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	13	1.17
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	16	1.17
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	15	1.17
(2,37)	1:113:A:ILE:O	1:117:A:VAL:H	19	1.16
(2,36)	1:112:A:ASP:O	1:116:A:ILE:H	7	1.16
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	4	1.16
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	15	1.16
(1,2184)	1:246:A:GLU:HA	1:247:A:GLY:H	1	1.16
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	7	1.16
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	19	1.16
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	19	1.16
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	15	1.16
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	16	1.16
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	7	1.16
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	16	1.16
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	16	1.16
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	10	1.16
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	10	1.16
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	3	1.16
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	3	1.16
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	5	1.16
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	13	1.16
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	3	1.16
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	3	1.16
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	16	1.16
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	16	1.16
(1,1443)	1:175:A:ARG:HG2	1:211:A:VAL:HG13	13	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1443)	1:175:A:ARG:HG3	1:211:A:VAL:HG13	13	1.16
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	1	1.16
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	18	1.16
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	4	1.16
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	8	1.16
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	1	1.16
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	9	1.16
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	9	1.16
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	17	1.16
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	17	1.16
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	9	1.16
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	12	1.16
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	12	1.16
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	16	1.16
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	12	1.16
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	2	1.16
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	7	1.16
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	9	1.16
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	18	1.16
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	2	1.16
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	17	1.16
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	16	1.16
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	17	1.16
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	1	1.16
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	1	1.16
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	11	1.16
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	11	1.16
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	8	1.16
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	3	1.16
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	7	1.16
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	4	1.16
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	4	1.16
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	1	1.16
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	12	1.16
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	14	1.16
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	14	1.16
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	16	1.16
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	8	1.16
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	14	1.16
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	4	1.15
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	2	1.15
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	15	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	15	1.15
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	1	1.15
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	10	1.15
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	4	1.15
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	14	1.15
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	18	1.15
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	18	1.15
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	13	1.15
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	6	1.15
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	18	1.15
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	2	1.15
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	17	1.15
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	14	1.15
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	14	1.15
(1,1563)	1:185:A:GLY:HA2	1:188:A:LEU:HD13	3	1.15
(1,1563)	1:185:A:GLY:HA3	1:188:A:LEU:HD13	3	1.15
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	11	1.15
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	12	1.15
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	20	1.15
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	15	1.15
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	2	1.15
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	1	1.15
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG2	20	1.15
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG3	20	1.15
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	12	1.15
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	19	1.15
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	20	1.15
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	8	1.15
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	12	1.15
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	18	1.15
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	1	1.15
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	5	1.15
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	6	1.15
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	10	1.15
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	12	1.15
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	12	1.15
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	15	1.15
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	15	1.15
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	6	1.15
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	1	1.15
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	10	1.15
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	10	1.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,582)	1:67:A:VAL:HG13	1:68:A:ALA:H	7	1.15
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	9	1.15
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	7	1.15
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	3	1.15
(1,382)	1:45:A:VAL:H	1:45:A:VAL:HG23	20	1.15
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	9	1.15
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	9	1.15
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	18	1.15
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	19	1.15
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	20	1.15
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	6	1.15
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	6	1.15
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	1	1.15
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	12	1.15
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	18	1.15
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	18	1.15
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	18	1.15
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	18	1.15
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	8	1.15
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	12	1.15
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	5	1.14
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	10	1.14
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	1	1.14
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	14	1.14
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	15	1.14
(1,1816)	1:203:A:ASP:H	1:210:A:ILE:HD13	2	1.14
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	20	1.14
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	20	1.14
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	12	1.14
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	12	1.14
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	18	1.14
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	13	1.14
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	13	1.14
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	12	1.14
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	19	1.14
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	1	1.14
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	8	1.14
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	8	1.14
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	10	1.14
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	19	1.14
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	19	1.14
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	19	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	19	1.14
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	18	1.14
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	4	1.14
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	14	1.14
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	7	1.14
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	18	1.14
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	12	1.14
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	19	1.14
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	12	1.14
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	1	1.14
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	16	1.14
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	16	1.14
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	13	1.14
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	19	1.14
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	19	1.14
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	15	1.14
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	16	1.14
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	16	1.14
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	16	1.14
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	16	1.14
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	4	1.14
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	4	1.14
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	4	1.14
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	4	1.14
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	9	1.14
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	9	1.14
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	16	1.14
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	7	1.14
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	7	1.14
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	18	1.14
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	20	1.13
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	4	1.13
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	4	1.13
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	6	1.13
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	12	1.13
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	12	1.13
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	12	1.13
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	12	1.13
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	12	1.13
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	3	1.13
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	5	1.13
(1,1731)	1:198:A:VAL:HG13	1:210:A:ILE:HG23	15	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	8	1.13
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	8	1.13
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	16	1.13
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	16	1.13
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD2	18	1.13
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD3	18	1.13
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	16	1.13
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	4	1.13
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	3	1.13
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	9	1.13
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	9	1.13
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	8	1.13
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	3	1.13
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	17	1.13
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	6	1.13
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	2	1.13
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	2	1.13
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	11	1.13
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	11	1.13
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	13	1.13
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	14	1.13
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	7	1.13
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	7	1.13
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	15	1.13
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	12	1.13
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	6	1.13
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	5	1.13
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	5	1.13
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	5	1.13
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	5	1.13
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	10	1.13
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	10	1.13
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	10	1.13
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	10	1.13
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE2	18	1.13
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE3	18	1.13
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE2	18	1.13
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE3	18	1.13
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	17	1.13
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	12	1.13
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	12	1.13
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	9	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	15	1.13
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	4	1.13
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	4	1.13
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	1	1.13
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	9	1.13
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	1	1.13
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	10	1.13
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	6	1.12
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	1	1.12
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	1	1.12
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	1	1.12
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	1	1.12
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	16	1.12
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	18	1.12
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	5	1.12
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	5	1.12
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	8	1.12
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	8	1.12
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	4	1.12
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	17	1.12
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	6	1.12
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	20	1.12
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	20	1.12
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	20	1.12
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	20	1.12
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	11	1.12
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	11	1.12
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	6	1.12
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	6	1.12
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	17	1.12
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	2	1.12
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	2	1.12
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	3	1.12
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	3	1.12
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	7	1.12
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD2	2	1.12
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD3	2	1.12
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	11	1.12
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	14	1.12
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	9	1.12
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	9	1.12
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	6	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	6	1.12
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	6	1.12
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	6	1.12
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	4	1.12
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	4	1.12
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	7	1.12
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	1	1.12
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	2	1.12
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	5	1.12
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	5	1.12
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	20	1.12
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	20	1.12
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	1	1.12
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	1	1.12
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	14	1.12
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG2	2	1.12
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG3	2	1.12
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG2	2	1.12
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG3	2	1.12
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	2	1.12
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	2	1.12
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	7	1.12
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	11	1.12
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	3	1.12
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	16	1.12
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	16	1.12
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	5	1.12
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	5	1.12
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	11	1.12
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	13	1.12
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	13	1.12
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	14	1.11
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	9	1.11
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	9	1.11
(1,1924)	1:221:A:GLU:HB2	1:222:A:ILE:HB	19	1.11
(1,1924)	1:221:A:GLU:HB3	1:222:A:ILE:HB	19	1.11
(1,1785)	1:201:A:SER:HB2	1:247:A:GLY:HA2	1	1.11
(1,1785)	1:201:A:SER:HB2	1:247:A:GLY:HA3	1	1.11
(1,1785)	1:201:A:SER:HB3	1:247:A:GLY:HA2	1	1.11
(1,1785)	1:201:A:SER:HB3	1:247:A:GLY:HA3	1	1.11
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	10	1.11
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	10	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	16	1.11
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	16	1.11
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	19	1.11
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	18	1.11
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	18	1.11
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	8	1.11
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	6	1.11
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	17	1.11
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	15	1.11
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB2	15	1.11
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB3	15	1.11
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	19	1.11
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	19	1.11
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	17	1.11
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	17	1.11
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	19	1.11
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	2	1.11
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	7	1.11
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	13	1.11
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	10	1.11
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	17	1.11
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	19	1.11
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	5	1.11
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	6	1.11
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	7	1.11
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	19	1.11
(1,532)	1:61:A:ASN:HA	1:64:A:LYS:H	17	1.11
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	4	1.11
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	4	1.11
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	11	1.11
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	14	1.11
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	14	1.11
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	8	1.11
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	20	1.11
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	17	1.11
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	14	1.11
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	14	1.11
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	14	1.11
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	19	1.11
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	19	1.11
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	2	1.11
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	2	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	9	1.11
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	9	1.11
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	1	1.11
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	9	1.11
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	4	1.11
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	18	1.1
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	2	1.1
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	8	1.1
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	18	1.1
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	4	1.1
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	1	1.1
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	1	1.1
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	12	1.1
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	16	1.1
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	10	1.1
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	19	1.1
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	15	1.1
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	14	1.1
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	2	1.1
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	13	1.1
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	1	1.1
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	11	1.1
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	1	1.1
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	15	1.1
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	15	1.1
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	14	1.1
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	14	1.1
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	4	1.1
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	9	1.1
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	13	1.1
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	9	1.1
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	20	1.1
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	20	1.1
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	18	1.1
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	18	1.1
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	18	1.1
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	18	1.1
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	12	1.1
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	5	1.1
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	5	1.1
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	14	1.1
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	14	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	14	1.1
(1,644)	1:72:A:ASP:HA	1:74:A:ILE:HG23	1	1.1
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	14	1.1
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	10	1.1
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	11	1.1
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	16	1.1
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	16	1.1
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	5	1.1
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	13	1.1
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	20	1.1
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	13	1.1
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	18	1.1
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	8	1.1
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	16	1.1
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	16	1.1
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	16	1.1
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	9	1.1
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	18	1.09
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	8	1.09
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG12	20	1.09
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG13	20	1.09
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	14	1.09
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	14	1.09
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	20	1.09
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	20	1.09
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	11	1.09
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	11	1.09
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG2	12	1.09
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG3	12	1.09
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	14	1.09
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	14	1.09
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	10	1.09
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	15	1.09
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	11	1.09
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	3	1.09
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG2	6	1.09
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG3	6	1.09
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	15	1.09
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	4	1.09
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	8	1.09
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	8	1.09
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	17	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	15	1.09
(1,1000)	1:116:A:ILE:HB	1:117:A:VAL:HB	14	1.09
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	14	1.09
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	17	1.09
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	6	1.09
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	6	1.09
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	4	1.09
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	5	1.09
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	1	1.09
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	13	1.09
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	13	1.09
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	13	1.09
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	13	1.09
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	10	1.09
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	17	1.09
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	18	1.09
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	11	1.09
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	20	1.09
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	20	1.09
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	8	1.09
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	17	1.09
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	17	1.09
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	18	1.09
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	3	1.09
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	5	1.09
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	5	1.09
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	14	1.09
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	8	1.08
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	1	1.08
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	1	1.08
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	3	1.08
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	5	1.08
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	12	1.08
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	12	1.08
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	7	1.08
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	7	1.08
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	11	1.08
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	9	1.08
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	9	1.08
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	10	1.08
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	7	1.08
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	20	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1751)	1:199:A:ILE:HG23	1:200:A:GLU:H	3	1.08
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	1	1.08
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	7	1.08
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	2	1.08
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	2	1.08
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	14	1.08
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	1	1.08
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	1	1.08
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	1	1.08
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	1	1.08
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	15	1.08
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	4	1.08
(1,1462)	1:176:A:LEU:HG	1:237:A:GLU:H	20	1.08
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	20	1.08
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	20	1.08
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	3	1.08
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB2	18	1.08
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB3	18	1.08
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	2	1.08
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	2	1.08
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	2	1.08
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	2	1.08
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	2	1.08
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	10	1.08
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	10	1.08
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	6	1.08
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	6	1.08
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	11	1.08
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	11	1.08
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	1	1.08
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	11	1.08
(1,710)	1:75:A:SER:H	1:79:A:THR:H	12	1.08
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	16	1.08
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	16	1.08
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	4	1.08
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	15	1.08
(1,582)	1:67:A:VAL:HG13	1:68:A:ALA:H	17	1.08
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	17	1.08
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	7	1.08
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	7	1.08
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	2	1.08
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	16	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	20	1.08
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	5	1.08
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	5	1.08
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	5	1.08
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	5	1.08
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	5	1.08
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	8	1.08
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	2	1.08
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	11	1.07
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	16	1.07
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	12	1.07
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	6	1.07
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	13	1.07
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	13	1.07
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	13	1.07
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	3	1.07
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	3	1.07
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	14	1.07
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	14	1.07
(1,1593)	1:188:A:LEU:H	1:188:A:LEU:HD13	3	1.07
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	4	1.07
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	11	1.07
(1,1442)	1:175:A:ARG:HG2	1:199:A:ILE:HD13	11	1.07
(1,1442)	1:175:A:ARG:HG3	1:199:A:ILE:HD13	11	1.07
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	8	1.07
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	8	1.07
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	12	1.07
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	12	1.07
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	11	1.07
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	16	1.07
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	18	1.07
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	4	1.07
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	4	1.07
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	9	1.07
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	16	1.07
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	13	1.07
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	19	1.07
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	5	1.07
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	10	1.07
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	10	1.07
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	16	1.07
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	16	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	16	1.07
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	16	1.07
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	11	1.07
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	11	1.07
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	11	1.07
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	11	1.07
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	8	1.07
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	10	1.07
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	10	1.07
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	10	1.07
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	16	1.07
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	19	1.07
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	19	1.07
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	19	1.07
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	19	1.07
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	19	1.07
(1,307)	1:31:A:ILE:HG23	1:59:A:PHE:H	5	1.07
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	13	1.07
(1,294)	1:30:A:GLU:HG2	1:31:A:ILE:HA	1	1.07
(1,294)	1:30:A:GLU:HG3	1:31:A:ILE:HA	1	1.07
(1,294)	1:30:A:GLU:HG2	1:31:A:ILE:HA	5	1.07
(1,294)	1:30:A:GLU:HG3	1:31:A:ILE:HA	5	1.07
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	7	1.07
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	18	1.07
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	2	1.07
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	2	1.07
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	7	1.07
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	6	1.07
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	9	1.07
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	9	1.07
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	14	1.07
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	14	1.07
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	18	1.06
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	19	1.06
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	15	1.06
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	8	1.06
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	5	1.06
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	9	1.06
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	4	1.06
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	4	1.06
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	1	1.06
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	8	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	13	1.06
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	13	1.06
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	7	1.06
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	11	1.06
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	4	1.06
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	4	1.06
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD2	9	1.06
(1,1554)	1:184:A:GLU:HA	1:187:A:LYS:HD3	9	1.06
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	9	1.06
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	6	1.06
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	6	1.06
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	10	1.06
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	19	1.06
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	5	1.06
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	20	1.06
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	12	1.06
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	19	1.06
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	18	1.06
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	18	1.06
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	2	1.06
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	1	1.06
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	1	1.06
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	1	1.06
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	14	1.06
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	14	1.06
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	19	1.06
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	10	1.06
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	9	1.06
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	9	1.06
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	18	1.06
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	18	1.06
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	14	1.06
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE2	3	1.06
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE3	3	1.06
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE2	3	1.06
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE3	3	1.06
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE2	4	1.06
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE3	4	1.06
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE2	4	1.06
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE3	4	1.06
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	9	1.06
(1,476)	1:58:A:VAL:H	1:67:A:VAL:HG13	17	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	19	1.06
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	19	1.06
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	19	1.06
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	7	1.06
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	3	1.06
(1,363)	1:41:A:TRP:HA	1:46:A:GLU:HA	18	1.06
(1,353)	1:39:A:VAL:HB	1:97:A:VAL:HG13	5	1.06
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	6	1.06
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	8	1.06
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	8	1.06
(1,294)	1:30:A:GLU:HG2	1:31:A:ILE:HA	13	1.06
(1,294)	1:30:A:GLU:HG3	1:31:A:ILE:HA	13	1.06
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	20	1.06
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	9	1.06
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	7	1.06
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	7	1.06
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	20	1.06
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	20	1.06
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	20	1.06
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	20	1.06
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	3	1.06
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	1	1.06
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	18	1.05
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	19	1.05
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	19	1.05
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	9	1.05
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	11	1.05
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	11	1.05
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	11	1.05
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	9	1.05
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	9	1.05
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	7	1.05
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG12	9	1.05
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG13	9	1.05
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG12	9	1.05
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG13	9	1.05
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	9	1.05
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	9	1.05
(1,1672)	1:192:A:LEU:H	1:193:A:LYS:HG2	17	1.05
(1,1672)	1:192:A:LEU:H	1:193:A:LYS:HG3	17	1.05
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	19	1.05
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	19	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	10	1.05
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	12	1.05
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	5	1.05
(1,1587)	1:187:A:LYS:H	1:188:A:LEU:HG	14	1.05
(1,1587)	1:187:A:LYS:H	1:188:A:LEU:HG	17	1.05
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	9	1.05
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	14	1.05
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	15	1.05
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	8	1.05
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	8	1.05
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	8	1.05
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	8	1.05
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	6	1.05
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	14	1.05
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	14	1.05
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	4	1.05
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	9	1.05
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	9	1.05
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	11	1.05
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	11	1.05
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	2	1.05
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	6	1.05
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	7	1.05
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	16	1.05
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	6	1.05
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE2	20	1.05
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE3	20	1.05
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE2	20	1.05
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE3	20	1.05
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB2	15	1.05
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB3	15	1.05
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB2	1	1.05
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB3	1	1.05
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	9	1.05
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	1	1.05
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	20	1.05
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	3	1.05
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	14	1.05
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	2	1.05
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	8	1.05
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	8	1.05
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	11	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	16	1.05
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	2	1.05
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	12	1.05
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	12	1.05
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	9	1.05
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	2	1.05
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	8	1.05
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	15	1.05
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	13	1.05
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	9	1.05
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	19	1.05
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	13	1.04
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	16	1.04
(1,2158)	1:243:A:ASP:HB3	1:244:A:VAL:H	1	1.04
(1,2158)	1:243:A:ASP:HB2	1:244:A:VAL:H	1	1.04
(1,2158)	1:243:A:ASP:HB3	1:244:A:VAL:H	1	1.04
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	11	1.04
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	13	1.04
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	15	1.04
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	15	1.04
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	6	1.04
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	20	1.04
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	13	1.04
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	4	1.04
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	5	1.04
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	20	1.04
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	14	1.04
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	1	1.04
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	3	1.04
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	16	1.04
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	1	1.04
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	20	1.04
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	17	1.04
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	17	1.04
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	17	1.04
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	17	1.04
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	1	1.04
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	1	1.04
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	7	1.04
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	15	1.04
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	8	1.04
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	8	1.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	9	1.04
(1,1209)	1:142:A:ILE:H	1:143:A:HIS:H	20	1.04
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	10	1.04
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	10	1.04
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	13	1.04
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	13	1.04
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	6	1.04
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	19	1.04
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	7	1.04
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	14	1.04
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	14	1.04
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	16	1.04
(1,710)	1:75:A:SER:H	1:79:A:THR:H	6	1.04
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	9	1.04
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	18	1.04
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	7	1.04
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	5	1.04
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	5	1.04
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	7	1.04
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	7	1.04
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	5	1.04
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	5	1.04
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	17	1.04
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	17	1.04
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	7	1.04
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	7	1.04
(1,294)	1:30:A:GLU:HG2	1:31:A:ILE:HA	17	1.04
(1,294)	1:30:A:GLU:HG3	1:31:A:ILE:HA	17	1.04
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	1	1.04
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	1	1.04
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	4	1.04
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	4	1.04
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	3	1.04
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	15	1.04
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	9	1.04
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	3	1.04
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	4	1.04
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	4	1.04
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	11	1.03
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	14	1.03
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	14	1.03
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	19	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	19	1.03
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	4	1.03
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	14	1.03
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	18	1.03
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	2	1.03
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	9	1.03
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	9	1.03
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	9	1.03
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	9	1.03
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	10	1.03
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	16	1.03
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	16	1.03
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	16	1.03
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	16	1.03
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	13	1.03
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	17	1.03
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	14	1.03
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	8	1.03
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	17	1.03
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	17	1.03
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	19	1.03
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	19	1.03
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	6	1.03
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	6	1.03
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	15	1.03
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	3	1.03
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	5	1.03
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	5	1.03
(1,1462)	1:176:A:LEU:HG	1:237:A:GLU:H	11	1.03
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	4	1.03
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	4	1.03
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	18	1.03
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	6	1.03
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	6	1.03
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	2	1.03
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	2	1.03
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	4	1.03
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	4	1.03
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	13	1.03
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	13	1.03
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	2	1.03
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	17	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	4	1.03
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	4	1.03
(1,1056)	1:124:A:PRO:HA	1:125:A:GLU:HG2	18	1.03
(1,1056)	1:124:A:PRO:HA	1:125:A:GLU:HG3	18	1.03
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	11	1.03
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	11	1.03
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	11	1.03
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	17	1.03
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	20	1.03
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	20	1.03
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	8	1.03
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	8	1.03
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	5	1.03
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	16	1.03
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	15	1.03
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	15	1.03
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	11	1.03
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	12	1.03
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	12	1.03
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	20	1.03
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD2	19	1.03
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD3	19	1.03
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	20	1.03
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	14	1.03
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	15	1.03
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	15	1.03
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	12	1.02
(1,2159)	1:243:A:ASP:HB2	1:244:A:VAL:HG13	20	1.02
(1,2159)	1:243:A:ASP:HB3	1:244:A:VAL:HG13	20	1.02
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	13	1.02
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	19	1.02
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	16	1.02
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	16	1.02
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	9	1.02
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	18	1.02
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	13	1.02
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	14	1.02
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	14	1.02
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	17	1.02
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	3	1.02
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	2	1.02
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	2	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	3	1.02
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	19	1.02
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	10	1.02
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	9	1.02
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	12	1.02
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	12	1.02
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	5	1.02
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	4	1.02
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	4	1.02
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	20	1.02
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	20	1.02
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	6	1.02
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	6	1.02
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	1	1.02
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	3	1.02
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	19	1.02
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	19	1.02
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	6	1.02
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	1	1.02
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	15	1.02
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	19	1.02
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	11	1.02
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	11	1.02
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	15	1.02
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	18	1.02
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	4	1.02
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	20	1.02
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	20	1.02
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	20	1.02
(1,339)	1:38:A:VAL:HG13	1:39:A:VAL:H	5	1.02
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	6	1.02
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	6	1.02
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	5	1.02
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	18	1.02
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	11	1.02
(1,55)	1:12:A:ILE:HD13	1:52:A:VAL:HA	20	1.02
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	14	1.01
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	18	1.01
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	18	1.01
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	18	1.01
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	18	1.01
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	11	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	11	1.01
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	18	1.01
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	9	1.01
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	9	1.01
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	13	1.01
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	3	1.01
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	14	1.01
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	11	1.01
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	20	1.01
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG3	16	1.01
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG2	16	1.01
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	2	1.01
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	2	1.01
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	1	1.01
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	1	1.01
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	13	1.01
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	3	1.01
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	2	1.01
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	5	1.01
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	6	1.01
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	6	1.01
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	15	1.01
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	18	1.01
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	17	1.01
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	17	1.01
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	17	1.01
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	1	1.01
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	1	1.01
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	16	1.01
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	18	1.01
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	1	1.01
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	17	1.01
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	17	1.01
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	17	1.01
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	4	1.01
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	3	1.01
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	13	1.01
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	5	1.01
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	17	1.01
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	17	1.01
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	5	1.01
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	5	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	18	1.01
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	8	1.01
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	8	1.01
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	2	1.01
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	7	1.01
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	13	1.01
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB2	17	1.01
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB3	17	1.01
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	8	1.01
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	1	1.01
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	6	1.01
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	9	1.01
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	19	1.01
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	19	1.01
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	16	1.01
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	16	1.01
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	6	1.01
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	6	1.01
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	18	1.01
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	18	1.01
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	18	1.01
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	18	1.01
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	12	1.01
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	12	1.01
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	20	1.01
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	20	1.01
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	13	1.01
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	10	1.0
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	18	1.0
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	9	1.0
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	17	1.0
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	17	1.0
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	2	1.0
(1,2061)	1:229:A:GLU:H	1:230:A:THR:H	4	1.0
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	4	1.0
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	19	1.0
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	14	1.0
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	10	1.0
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	3	1.0
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	20	1.0
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	20	1.0
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	20	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	20	1.0
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	14	1.0
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	10	1.0
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	10	1.0
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	10	1.0
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	10	1.0
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	12	1.0
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	12	1.0
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	12	1.0
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	12	1.0
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	17	1.0
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	17	1.0
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	16	1.0
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	3	1.0
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	5	1.0
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	1	1.0
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	2	1.0
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	16	1.0
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	20	1.0
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	1	1.0
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	19	1.0
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	19	1.0
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	15	1.0
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	15	1.0
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	13	1.0
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	13	1.0
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	13	1.0
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	13	1.0
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	13	1.0
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	15	1.0
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	15	1.0
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	15	1.0
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	15	1.0
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	17	1.0
(1,1295)	1:157:A:LEU:HA	1:161:A:LYS:HG2	20	1.0
(1,1295)	1:157:A:LEU:HA	1:161:A:LYS:HG3	20	1.0
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	3	1.0
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	3	1.0
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	10	1.0
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	11	1.0
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	19	1.0
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	19	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	16	1.0
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	16	1.0
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	1	1.0
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	14	1.0
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	16	1.0
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	8	1.0
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	6	1.0
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	6	1.0
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	5	1.0
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	5	1.0
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	15	1.0
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	15	1.0
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	13	1.0
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	12	1.0
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	12	1.0
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	19	1.0
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	19	1.0
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	1	1.0
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	16	1.0
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	15	1.0
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	19	1.0
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	19	1.0
(1,339)	1:38:A:VAL:HG13	1:39:A:VAL:H	13	1.0
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	20	1.0
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	12	1.0
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	12	1.0
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	17	1.0
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	11	1.0
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	5	1.0
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	10	1.0
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	18	1.0
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	18	1.0
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	15	1.0
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	15	1.0
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	10	1.0
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	8	1.0
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	8	1.0
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	5	1.0
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	5	1.0
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	20	0.99
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	1	0.99
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	9	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	4	0.99
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	4	0.99
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	16	0.99
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	6	0.99
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	7	0.99
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	8	0.99
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	18	0.99
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	12	0.99
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	12	0.99
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	20	0.99
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	3	0.99
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	20	0.99
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	4	0.99
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	11	0.99
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	12	0.99
(1,1593)	1:188:A:LEU:H	1:188:A:LEU:HD13	14	0.99
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB2	6	0.99
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB3	6	0.99
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	16	0.99
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	16	0.99
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	19	0.99
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	19	0.99
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	19	0.99
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	19	0.99
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	14	0.99
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	17	0.99
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	17	0.99
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	16	0.99
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	15	0.99
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	17	0.99
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	7	0.99
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	16	0.99
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	20	0.99
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	4	0.99
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	1	0.99
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	1	0.99
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	1	0.99
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	13	0.99
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	20	0.99
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	2	0.99
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	17	0.99
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	4	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	2	0.99
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	5	0.99
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	10	0.99
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	13	0.99
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	3	0.99
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	16	0.99
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	9	0.99
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	16	0.99
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	19	0.99
(1,710)	1:75:A:SER:H	1:79:A:THR:H	9	0.99
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	13	0.99
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	16	0.99
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	2	0.99
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	17	0.99
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	17	0.99
(1,569)	1:66:A:GLN:HA	1:67:A:VAL:HB	10	0.99
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	9	0.99
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	17	0.99
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	17	0.99
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	2	0.99
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	2	0.99
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	2	0.99
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	2	0.99
(1,365)	1:41:A:TRP:HA	1:46:A:GLU:HG2	16	0.99
(1,365)	1:41:A:TRP:HA	1:46:A:GLU:HG3	16	0.99
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	20	0.99
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	18	0.99
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	8	0.99
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	8	0.99
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	6	0.99
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	8	0.99
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	13	0.99
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	12	0.99
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	6	0.99
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	10	0.99
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	8	0.99
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	12	0.98
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	6	0.98
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	6	0.98
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	6	0.98
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	6	0.98
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	20	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	20	0.98
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	2	0.98
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	2	0.98
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	2	0.98
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	17	0.98
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	1	0.98
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	1	0.98
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	16	0.98
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	16	0.98
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	6	0.98
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	6	0.98
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	2	0.98
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	14	0.98
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	14	0.98
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	14	0.98
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	14	0.98
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	6	0.98
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	7	0.98
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	8	0.98
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	17	0.98
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	17	0.98
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	15	0.98
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG2	12	0.98
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG3	12	0.98
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	4	0.98
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	15	0.98
(1,1544)	1:182:A:VAL:HG13	1:208:A:LEU:H	10	0.98
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	3	0.98
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	10	0.98
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	2	0.98
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	2	0.98
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	1	0.98
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	5	0.98
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	7	0.98
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	6	0.98
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	5	0.98
(1,1024)	1:118:A:ALA:HB3	1:132:A:VAL:H	17	0.98
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	13	0.98
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG13	19	0.98
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG23	19	0.98
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	9	0.98
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	11	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	19	0.98
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	19	0.98
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	16	0.98
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	10	0.98
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	10	0.98
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	9	0.98
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	1	0.98
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	8	0.98
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	8	0.98
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	11	0.98
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	4	0.98
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	1	0.98
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	9	0.98
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	9	0.98
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	16	0.98
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	15	0.98
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	16	0.98
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	17	0.98
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	17	0.98
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	4	0.98
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	17	0.98
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	17	0.98
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	16	0.98
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	16	0.98
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	19	0.98
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	16	0.98
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	16	0.98
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	14	0.98
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	14	0.98
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	14	0.98
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	15	0.97
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	2	0.97
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	3	0.97
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	3	0.97
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	15	0.97
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	18	0.97
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	18	0.97
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	10	0.97
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	5	0.97
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	19	0.97
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	10	0.97
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	12	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	4	0.97
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	3	0.97
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	3	0.97
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	6	0.97
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	6	0.97
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	7	0.97
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	7	0.97
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	15	0.97
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	3	0.97
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	3	0.97
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	18	0.97
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	18	0.97
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD2	17	0.97
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD3	17	0.97
(1,1543)	1:182:A:VAL:HG13	1:205:A:GLY:H	16	0.97
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	1	0.97
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	18	0.97
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	11	0.97
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	9	0.97
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	10	0.97
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	10	0.97
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	16	0.97
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	2	0.97
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	2	0.97
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	7	0.97
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	7	0.97
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	19	0.97
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG2	4	0.97
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG3	4	0.97
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG2	4	0.97
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG3	4	0.97
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	15	0.97
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	15	0.97
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	17	0.97
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	17	0.97
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	17	0.97
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	17	0.97
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	16	0.97
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG2	1	0.97
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG3	1	0.97
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG2	20	0.97
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG3	20	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	13	0.97
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	12	0.97
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	12	0.97
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	18	0.97
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	18	0.97
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	20	0.97
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	20	0.97
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	19	0.97
(1,339)	1:38:A:VAL:HG13	1:39:A:VAL:H	3	0.97
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	1	0.97
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	11	0.97
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	11	0.97
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	11	0.97
(1,261)	1:28:A:ARG:H	1:60:A:VAL:HA	7	0.97
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	5	0.97
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	5	0.97
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	5	0.97
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	5	0.97
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	18	0.97
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	18	0.97
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	6	0.97
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	7	0.97
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	13	0.97
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	1	0.97
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	11	0.97
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	9	0.97
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	6	0.97
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	18	0.97
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	18	0.97
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	1	0.97
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	1	0.97
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	4	0.96
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	2	0.96
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	10	0.96
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	11	0.96
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	16	0.96
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	18	0.96
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	18	0.96
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	20	0.96
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	5	0.96
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	17	0.96
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	17	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	9	0.96
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	16	0.96
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	4	0.96
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	4	0.96
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	8	0.96
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	8	0.96
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	16	0.96
(1,1478)	1:177:A:ARG:HB2	1:209:A:GLU:HG2	8	0.96
(1,1478)	1:177:A:ARG:HB2	1:209:A:GLU:HG3	8	0.96
(1,1478)	1:177:A:ARG:HB3	1:209:A:GLU:HG2	8	0.96
(1,1478)	1:177:A:ARG:HB3	1:209:A:GLU:HG3	8	0.96
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	19	0.96
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	19	0.96
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	14	0.96
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	16	0.96
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	1	0.96
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	3	0.96
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	3	0.96
(1,1312)	1:159:A:VAL:HB	1:161:A:LYS:H	13	0.96
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	14	0.96
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	9	0.96
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	10	0.96
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	10	0.96
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	10	0.96
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	9	0.96
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	11	0.96
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	15	0.96
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	17	0.96
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	12	0.96
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	14	0.96
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	14	0.96
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	14	0.96
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	14	0.96
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	6	0.96
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	6	0.96
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	10	0.96
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	10	0.96
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	11	0.96
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG2	13	0.96
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG3	13	0.96
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG2	13	0.96
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG3	13	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	12	0.96
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	12	0.96
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	5	0.96
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	5	0.96
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	7	0.96
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	7	0.96
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	6	0.96
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	5	0.96
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	5	0.96
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	5	0.96
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	5	0.96
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	7	0.96
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	7	0.96
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	7	0.96
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	7	0.96
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	7	0.96
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	6	0.96
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	19	0.96
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	11	0.96
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	10	0.96
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	3	0.96
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	6	0.96
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	6	0.96
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	6	0.96
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	12	0.96
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	12	0.96
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	10	0.96
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	13	0.96
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	13	0.96
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	14	0.96
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	19	0.96
(1,142)	1:20:A:VAL:HB	1:89:A:ILE:HG23	18	0.96
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	8	0.96
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	13	0.96
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	13	0.96
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	5	0.96
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	19	0.96
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	9	0.96
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	16	0.96
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	18	0.96
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	10	0.96
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	5	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	8	0.96
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	1	0.96
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	15	0.95
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	8	0.95
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	13	0.95
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	17	0.95
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	17	0.95
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	19	0.95
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	17	0.95
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	4	0.95
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	11	0.95
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	11	0.95
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	14	0.95
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	14	0.95
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	2	0.95
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	8	0.95
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	8	0.95
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	12	0.95
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	5	0.95
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	7	0.95
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	17	0.95
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	5	0.95
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	5	0.95
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	10	0.95
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	10	0.95
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	15	0.95
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	15	0.95
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	4	0.95
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	5	0.95
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	5	0.95
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	5	0.95
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	5	0.95
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	19	0.95
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	6	0.95
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	6	0.95
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	10	0.95
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB2	14	0.95
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB3	14	0.95
(1,1175)	1:137:A:ARG:HD2	1:138:A:ALA:HA	8	0.95
(1,1175)	1:137:A:ARG:HD3	1:138:A:ALA:HA	8	0.95
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	20	0.95
(1,1024)	1:118:A:ALA:HB3	1:132:A:VAL:H	10	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	1	0.95
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	17	0.95
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	20	0.95
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	8	0.95
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG13	5	0.95
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG23	5	0.95
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	4	0.95
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	4	0.95
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	19	0.95
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	19	0.95
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	14	0.95
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	1	0.95
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	16	0.95
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	1	0.95
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	13	0.95
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	17	0.95
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG2	5	0.95
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG3	5	0.95
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG2	5	0.95
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG3	5	0.95
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	5	0.95
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	5	0.95
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	5	0.95
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	5	0.95
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	2	0.95
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	20	0.95
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	20	0.95
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	7	0.95
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	7	0.95
(1,358)	1:41:A:TRP:H	1:44:A:GLY:H	15	0.95
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	6	0.95
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	12	0.95
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	12	0.95
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	10	0.95
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	9	0.95
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	9	0.95
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	14	0.95
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	14	0.95
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	16	0.95
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	16	0.95
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	15	0.95
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	10	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	9	0.95
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	20	0.95
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	10	0.95
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	10	0.95
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	6	0.95
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	6	0.95
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	7	0.95
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	16	0.95
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	2	0.95
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	13	0.95
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	2	0.94
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	13	0.94
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	7	0.94
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	7	0.94
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	7	0.94
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	7	0.94
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	15	0.94
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	20	0.94
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	20	0.94
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	4	0.94
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	4	0.94
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	11	0.94
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	11	0.94
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	20	0.94
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	20	0.94
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	20	0.94
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	14	0.94
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	11	0.94
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	3	0.94
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	9	0.94
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	9	0.94
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	9	0.94
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	9	0.94
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	20	0.94
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	20	0.94
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	20	0.94
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	20	0.94
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	1	0.94
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	5	0.94
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	11	0.94
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	11	0.94
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	11	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	4	0.94
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	7	0.94
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	20	0.94
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	6	0.94
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	14	0.94
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	2	0.94
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	2	0.94
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	19	0.94
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	16	0.94
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	16	0.94
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	20	0.94
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	11	0.94
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	11	0.94
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	18	0.94
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	10	0.94
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	10	0.94
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	3	0.94
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	1	0.94
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	12	0.94
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	2	0.94
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	12	0.94
(1,979)	1:111:A:ARG:HG2	1:136:A:GLU:HB2	20	0.94
(1,979)	1:111:A:ARG:HG2	1:136:A:GLU:HB3	20	0.94
(1,979)	1:111:A:ARG:HG3	1:136:A:GLU:HB2	20	0.94
(1,979)	1:111:A:ARG:HG3	1:136:A:GLU:HB3	20	0.94
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG2	17	0.94
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG3	17	0.94
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG2	17	0.94
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG3	17	0.94
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	3	0.94
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	11	0.94
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	4	0.94
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	2	0.94
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	2	0.94
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	9	0.94
(1,710)	1:75:A:SER:H	1:79:A:THR:H	15	0.94
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	3	0.94
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	18	0.94
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	1	0.94
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	1	0.94
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	3	0.94
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	4	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	4	0.94
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	17	0.94
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	20	0.94
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	1	0.94
(1,307)	1:31:A:ILE:HG23	1:59:A:PHE:H	16	0.94
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	4	0.94
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	19	0.94
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	4	0.94
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	6	0.94
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	6	0.94
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	12	0.94
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	12	0.94
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	12	0.94
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	12	0.94
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	3	0.94
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	3	0.94
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	20	0.94
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	7	0.94
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	19	0.94
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	19	0.94
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	14	0.93
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	15	0.93
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	15	0.93
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	15	0.93
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	15	0.93
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	19	0.93
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	1	0.93
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	1	0.93
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	3	0.93
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	3	0.93
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	4	0.93
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	4	0.93
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	15	0.93
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	15	0.93
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	17	0.93
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	17	0.93
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	6	0.93
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	6	0.93
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	14	0.93
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	14	0.93
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	2	0.93
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	3	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	11	0.93
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	2	0.93
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	2	0.93
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	2	0.93
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	2	0.93
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	2	0.93
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	10	0.93
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	2	0.93
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	5	0.93
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	5	0.93
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	1	0.93
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	1	0.93
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	8	0.93
(1,1587)	1:187:A:LYS:H	1:188:A:LEU:HG	19	0.93
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	16	0.93
(1,1563)	1:185:A:GLY:HA2	1:188:A:LEU:HD13	17	0.93
(1,1563)	1:185:A:GLY:HA3	1:188:A:LEU:HD13	17	0.93
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	4	0.93
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	17	0.93
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	16	0.93
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	15	0.93
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	13	0.93
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	13	0.93
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	14	0.93
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	16	0.93
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	12	0.93
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	5	0.93
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	9	0.93
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	13	0.93
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	13	0.93
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	13	0.93
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	10	0.93
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	10	0.93
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	13	0.93
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	13	0.93
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	13	0.93
(1,745)	1:80:A:ASP:H	1:81:A:ASP:H	19	0.93
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	5	0.93
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	5	0.93
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	19	0.93
(1,582)	1:67:A:VAL:HG13	1:68:A:ALA:H	8	0.93
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	1	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:63:A:SER:H	1:66:A:GLN:H	17	0.93
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	20	0.93
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	8	0.93
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	5	0.93
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	12	0.93
(1,386)	1:45:A:VAL:HA	1:46:A:GLU:H	12	0.93
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	12	0.93
(1,292)	1:30:A:GLU:HB2	1:58:A:VAL:HG23	12	0.93
(1,292)	1:30:A:GLU:HB3	1:58:A:VAL:HG23	12	0.93
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	7	0.93
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	7	0.93
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	1	0.93
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	17	0.93
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	14	0.93
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	14	0.93
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	20	0.93
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	11	0.93
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	8	0.93
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	17	0.93
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	6	0.93
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	9	0.93
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	9	0.93
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	12	0.93
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	14	0.92
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	11	0.92
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	11	0.92
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	20	0.92
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	8	0.92
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	12	0.92
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	12	0.92
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	12	0.92
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	15	0.92
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	7	0.92
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	14	0.92
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	5	0.92
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	13	0.92
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	3	0.92
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	3	0.92
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	4	0.92
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	10	0.92
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	13	0.92
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	6	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	15	0.92
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	12	0.92
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	18	0.92
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	8	0.92
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	15	0.92
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	15	0.92
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	11	0.92
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	19	0.92
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	19	0.92
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	3	0.92
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	3	0.92
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	2	0.92
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	2	0.92
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	2	0.92
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	9	0.92
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	9	0.92
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	9	0.92
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	9	0.92
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	16	0.92
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	16	0.92
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	17	0.92
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	17	0.92
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	13	0.92
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	13	0.92
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	10	0.92
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	9	0.92
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	13	0.92
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	13	0.92
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	20	0.92
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	11	0.92
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	6	0.92
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	20	0.92
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	10	0.92
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	10	0.92
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	2	0.92
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	16	0.92
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	6	0.92
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	11	0.92
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	6	0.92
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	8	0.92
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	8	0.92
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	8	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	8	0.92
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	2	0.92
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	2	0.92
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	12	0.92
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	2	0.92
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	11	0.92
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	7	0.92
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	7	0.92
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	13	0.92
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	13	0.92
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	12	0.92
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	6	0.92
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	20	0.92
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	20	0.92
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	20	0.92
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	11	0.92
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	11	0.92
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	2	0.92
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	2	0.92
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	14	0.92
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	19	0.92
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	19	0.92
(1,154)	1:20:A:VAL:HG23	1:93:A:GLY:HA2	4	0.92
(1,154)	1:20:A:VAL:HG23	1:93:A:GLY:HA3	4	0.92
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	3	0.92
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	16	0.92
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	2	0.92
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	1	0.92
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	3	0.92
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	12	0.92
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	11	0.92
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	4	0.92
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	12	0.92
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	6	0.91
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	10	0.91
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	6	0.91
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	5	0.91
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	14	0.91
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	14	0.91
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	14	0.91
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	14	0.91
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	17	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	17	0.91
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	13	0.91
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	20	0.91
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	2	0.91
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	15	0.91
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	19	0.91
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	3	0.91
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	15	0.91
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	15	0.91
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	5	0.91
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	5	0.91
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	6	0.91
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	6	0.91
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	18	0.91
(1,1688)	1:193:A:LYS:HB2	1:198:A:VAL:HG23	11	0.91
(1,1688)	1:193:A:LYS:HB3	1:198:A:VAL:HG23	11	0.91
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	18	0.91
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	18	0.91
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	7	0.91
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	16	0.91
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	14	0.91
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	8	0.91
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	13	0.91
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	13	0.91
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	4	0.91
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	14	0.91
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	13	0.91
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	14	0.91
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	12	0.91
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	12	0.91
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	12	0.91
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	12	0.91
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	2	0.91
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	2	0.91
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	4	0.91
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	4	0.91
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	6	0.91
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	16	0.91
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	15	0.91
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	3	0.91
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	16	0.91
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	16	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	8	0.91
(1,1024)	1:118:A:ALA:HB3	1:132:A:VAL:H	7	0.91
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	2	0.91
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	2	0.91
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	13	0.91
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	14	0.91
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	14	0.91
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	7	0.91
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	7	0.91
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	13	0.91
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	13	0.91
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	19	0.91
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	19	0.91
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	16	0.91
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	11	0.91
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	1	0.91
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	1	0.91
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	15	0.91
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	2	0.91
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	6	0.91
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	4	0.91
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	14	0.91
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	14	0.91
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	18	0.91
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	18	0.91
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	1	0.91
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	1	0.91
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	20	0.91
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	1	0.91
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	1	0.91
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	3	0.91
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	19	0.91
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	19	0.91
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	4	0.91
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	19	0.91
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	13	0.91
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	13	0.91
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	6	0.91
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	19	0.91
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	14	0.91
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	14	0.91
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	19	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	18	0.9
(1,2225)	1:251:A:PHE:HB2	1:252:A:GLU:HG2	5	0.9
(1,2225)	1:251:A:PHE:HB2	1:252:A:GLU:HG3	5	0.9
(1,2225)	1:251:A:PHE:HB3	1:252:A:GLU:HG2	5	0.9
(1,2225)	1:251:A:PHE:HB3	1:252:A:GLU:HG3	5	0.9
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	14	0.9
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	12	0.9
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	12	0.9
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	8	0.9
(1,1801)	1:202:A:GLU:HB2	1:204:A:TYR:H	13	0.9
(1,1801)	1:202:A:GLU:HB3	1:204:A:TYR:H	13	0.9
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	14	0.9
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	18	0.9
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	18	0.9
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	10	0.9
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	16	0.9
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	13	0.9
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	13	0.9
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	8	0.9
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	8	0.9
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	11	0.9
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	14	0.9
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	14	0.9
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	5	0.9
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	5	0.9
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	13	0.9
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	13	0.9
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	3	0.9
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	3	0.9
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	17	0.9
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	12	0.9
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	12	0.9
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	13	0.9
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	15	0.9
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	14	0.9
(1,1087)	1:131:A:THR:HG23	1:134:A:LEU:H	8	0.9
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	9	0.9
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	4	0.9
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	4	0.9
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	14	0.9
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	14	0.9
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	15	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	2	0.9
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	10	0.9
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	13	0.9
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	13	0.9
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	13	0.9
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	13	0.9
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	3	0.9
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	6	0.9
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	13	0.9
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	5	0.9
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	17	0.9
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	2	0.9
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	2	0.9
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	19	0.9
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	19	0.9
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	7	0.9
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	7	0.9
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	7	0.9
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	7	0.9
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	14	0.9
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	14	0.9
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	13	0.9
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	4	0.9
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	14	0.9
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	3	0.9
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	14	0.9
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	14	0.9
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	14	0.9
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	11	0.9
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	15	0.9
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	17	0.9
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	10	0.9
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	10	0.9
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	18	0.89
(2,18)	1:61:A:ASN:O	1:66:A:GLN:H	17	0.89
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	3	0.89
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	19	0.89
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	1	0.89
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	1	0.89
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	19	0.89
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	19	0.89
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	20	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	18	0.89
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	18	0.89
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	6	0.89
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	3	0.89
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	14	0.89
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	17	0.89
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	17	0.89
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	5	0.89
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	5	0.89
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	19	0.89
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	17	0.89
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	9	0.89
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	2	0.89
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	9	0.89
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	7	0.89
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	4	0.89
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	17	0.89
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	10	0.89
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	1	0.89
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	17	0.89
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	17	0.89
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	16	0.89
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	12	0.89
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	14	0.89
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	14	0.89
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	17	0.89
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	7	0.89
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	1	0.89
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	2	0.89
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	8	0.89
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	3	0.89
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB2	8	0.89
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB3	8	0.89
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	20	0.89
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	14	0.89
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	10	0.89
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	10	0.89
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	5	0.89
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	13	0.89
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	8	0.89
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	8	0.89
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	17	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	1	0.89
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	19	0.89
(1,695)	1:74:A:ILE:HG12	1:80:A:ASP:HA	7	0.89
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE2	13	0.89
(1,598)	1:69:A:LYS:HB2	1:69:A:LYS:HE3	13	0.89
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE2	13	0.89
(1,598)	1:69:A:LYS:HB3	1:69:A:LYS:HE3	13	0.89
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	4	0.89
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	20	0.89
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	20	0.89
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	18	0.89
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	20	0.89
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	14	0.89
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	14	0.89
(1,323)	1:33:A:CYS:HA	1:53:A:LEU:HA	9	0.89
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	8	0.89
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	8	0.89
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	10	0.89
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	7	0.89
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	13	0.89
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	12	0.89
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	16	0.89
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	16	0.89
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	2	0.89
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	2	0.89
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	5	0.89
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	20	0.89
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	20	0.89
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	17	0.89
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	17	0.89
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	6	0.89
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	6	0.89
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	16	0.89
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	16	0.89
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	18	0.89
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	12	0.88
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	7	0.88
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	5	0.88
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	15	0.88
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	19	0.88
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	16	0.88
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	16	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	4	0.88
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	4	0.88
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	8	0.88
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	8	0.88
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	15	0.88
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	2	0.88
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	2	0.88
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	17	0.88
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	17	0.88
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	17	0.88
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	17	0.88
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	7	0.88
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	7	0.88
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	7	0.88
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	7	0.88
(1,1757)	1:199:A:ILE:HG23	1:211:A:VAL:HG23	3	0.88
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	9	0.88
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	3	0.88
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	14	0.88
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	17	0.88
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	17	0.88
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	2	0.88
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	8	0.88
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	8	0.88
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	8	0.88
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	5	0.88
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	5	0.88
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	17	0.88
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	5	0.88
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	7	0.88
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	7	0.88
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	16	0.88
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	10	0.88
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	13	0.88
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	2	0.88
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	2	0.88
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE2	13	0.88
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE3	13	0.88
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE2	13	0.88
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE3	13	0.88
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	19	0.88
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	20	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	19	0.88
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	19	0.88
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	19	0.88
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	19	0.88
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	7	0.88
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	7	0.88
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	12	0.88
(1,710)	1:75:A:SER:H	1:79:A:THR:H	10	0.88
(1,710)	1:75:A:SER:H	1:79:A:THR:H	20	0.88
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	9	0.88
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	16	0.88
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	5	0.88
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	11	0.88
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	20	0.88
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	20	0.88
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	15	0.88
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	18	0.88
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	18	0.88
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	5	0.88
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	18	0.88
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	18	0.88
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	17	0.88
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	19	0.88
(1,294)	1:30:A:GLU:HG2	1:31:A:ILE:HA	9	0.88
(1,294)	1:30:A:GLU:HG3	1:31:A:ILE:HA	9	0.88
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	1	0.88
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	4	0.88
(1,243)	1:24:A:ARG:HB2	1:27:A:LYS:H	7	0.88
(1,243)	1:24:A:ARG:HB3	1:27:A:LYS:H	7	0.88
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	4	0.88
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	4	0.88
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	11	0.88
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	20	0.88
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	20	0.88
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	16	0.88
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	11	0.88
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	11	0.88
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	5	0.88
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	16	0.88
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	16	0.88
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	16	0.88
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	16	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	16	0.88
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	5	0.87
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	15	0.87
(2,36)	1:112:A:ASP:O	1:116:A:ILE:H	14	0.87
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	14	0.87
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	16	0.87
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	16	0.87
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	1	0.87
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	4	0.87
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	5	0.87
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	20	0.87
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	20	0.87
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	17	0.87
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	14	0.87
(1,1770)	1:200:A:GLU:HB2	1:202:A:GLU:H	11	0.87
(1,1770)	1:200:A:GLU:HB3	1:202:A:GLU:H	11	0.87
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	6	0.87
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	12	0.87
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	4	0.87
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	6	0.87
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	6	0.87
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	15	0.87
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	3	0.87
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	4	0.87
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	4	0.87
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	2	0.87
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	2	0.87
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	2	0.87
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	9	0.87
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	9	0.87
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	10	0.87
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	10	0.87
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	10	0.87
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	10	0.87
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	7	0.87
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	8	0.87
(1,1243)	1:152:A:THR:HB	1:153:A:LYS:H	15	0.87
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	14	0.87
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	14	0.87
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	7	0.87
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	20	0.87
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	20	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	20	0.87
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	20	0.87
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	13	0.87
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	2	0.87
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	2	0.87
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	12	0.87
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	12	0.87
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	9	0.87
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	9	0.87
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	13	0.87
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	13	0.87
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	2	0.87
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	1	0.87
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	2	0.87
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	8	0.87
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	14	0.87
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	14	0.87
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	14	0.87
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	14	0.87
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	2	0.87
(1,582)	1:67:A:VAL:HG13	1:68:A:ALA:H	9	0.87
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	19	0.87
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	15	0.87
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	16	0.87
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	1	0.87
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	11	0.87
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	9	0.87
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	17	0.87
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	16	0.87
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	5	0.87
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	2	0.87
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	15	0.87
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	15	0.87
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	15	0.87
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	15	0.87
(1,191)	1:22:A:MET:H	1:89:A:ILE:HD13	18	0.87
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	9	0.87
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	9	0.87
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	10	0.87
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	10	0.87
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	10	0.87
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	10	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	16	0.87
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	19	0.87
(1,142)	1:20:A:VAL:HB	1:89:A:ILE:HG23	13	0.87
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	4	0.87
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	4	0.87
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	8	0.87
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	4	0.87
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	8	0.86
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	9	0.86
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	14	0.86
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	10	0.86
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	17	0.86
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	17	0.86
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	10	0.86
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	18	0.86
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	11	0.86
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	11	0.86
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	13	0.86
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	2	0.86
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	14	0.86
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	6	0.86
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	10	0.86
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	17	0.86
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	1	0.86
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	2	0.86
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	10	0.86
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	10	0.86
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	6	0.86
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	6	0.86
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	5	0.86
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	5	0.86
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	5	0.86
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	5	0.86
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	16	0.86
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	16	0.86
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	16	0.86
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	16	0.86
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	11	0.86
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	18	0.86
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	4	0.86
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	11	0.86
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	6	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	8	0.86
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	8	0.86
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	3	0.86
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	17	0.86
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	4	0.86
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	1	0.86
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	12	0.86
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	9	0.86
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	19	0.86
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	7	0.86
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	7	0.86
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	14	0.86
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	12	0.86
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	3	0.86
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	3	0.86
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	6	0.86
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	1	0.86
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	1	0.86
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	9	0.86
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	2	0.86
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	20	0.86
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	20	0.86
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	20	0.86
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	20	0.86
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	3	0.86
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	3	0.86
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	6	0.86
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	5	0.86
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	5	0.86
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	13	0.86
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	2	0.86
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	15	0.86
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	9	0.86
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	9	0.86
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	9	0.86
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	9	0.86
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	20	0.86
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	13	0.86
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	6	0.86
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	4	0.86
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	4	0.86
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	16	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	16	0.86
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	18	0.86
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	14	0.86
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	7	0.86
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	1	0.86
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	1	0.86
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	4	0.86
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	4	0.86
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	6	0.85
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD2	8	0.85
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD3	8	0.85
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	16	0.85
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	17	0.85
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	2	0.85
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	18	0.85
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	10	0.85
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	10	0.85
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	14	0.85
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	10	0.85
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	6	0.85
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	19	0.85
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	19	0.85
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	20	0.85
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	17	0.85
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	17	0.85
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	17	0.85
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	17	0.85
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	18	0.85
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	18	0.85
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	17	0.85
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	17	0.85
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	5	0.85
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	5	0.85
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	19	0.85
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	10	0.85
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	15	0.85
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	5	0.85
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	5	0.85
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	20	0.85
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	1	0.85
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	2	0.85
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	20	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	20	0.85
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	10	0.85
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	11	0.85
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	11	0.85
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	11	0.85
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	3	0.85
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	3	0.85
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	6	0.85
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	6	0.85
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	15	0.85
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	13	0.85
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	18	0.85
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	4	0.85
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	4	0.85
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	14	0.85
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	19	0.85
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	19	0.85
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	16	0.85
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	16	0.85
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	16	0.85
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	16	0.85
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	11	0.85
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	11	0.85
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	16	0.85
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	1	0.85
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	5	0.85
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	20	0.85
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	20	0.85
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	6	0.85
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	10	0.85
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	1	0.85
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	1	0.85
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	11	0.85
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	11	0.85
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	9	0.85
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	3	0.85
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	3	0.85
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	13	0.85
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	13	0.85
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	16	0.85
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	18	0.85
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	18	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	18	0.85
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	18	0.85
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	18	0.85
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	13	0.85
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	8	0.85
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	8	0.85
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	17	0.85
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	4	0.85
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	8	0.85
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	11	0.85
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	11	0.85
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	17	0.85
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	17	0.85
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	7	0.85
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	7	0.85
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	5	0.85
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	5	0.85
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	16	0.84
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	7	0.84
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	19	0.84
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	2	0.84
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	10	0.84
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	10	0.84
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	8	0.84
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	1	0.84
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	16	0.84
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	20	0.84
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	20	0.84
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	13	0.84
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	7	0.84
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	7	0.84
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	7	0.84
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	15	0.84
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	15	0.84
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	4	0.84
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	11	0.84
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	3	0.84
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	3	0.84
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	13	0.84
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	13	0.84
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	13	0.84
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	13	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	3	0.84
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	5	0.84
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	5	0.84
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	11	0.84
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	16	0.84
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	14	0.84
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	14	0.84
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	17	0.84
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	17	0.84
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	1	0.84
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	18	0.84
(1,1209)	1:142:A:ILE:H	1:143:A:HIS:H	9	0.84
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	6	0.84
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	11	0.84
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	16	0.84
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	16	0.84
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	5	0.84
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	11	0.84
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	11	0.84
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	12	0.84
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	15	0.84
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	14	0.84
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	11	0.84
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	11	0.84
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	18	0.84
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	18	0.84
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	17	0.84
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	17	0.84
(1,835)	1:87:A:LYS:HB2	1:88:A:GLN:H	11	0.84
(1,835)	1:87:A:LYS:HB3	1:88:A:GLN:H	11	0.84
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	5	0.84
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	5	0.84
(1,710)	1:75:A:SER:H	1:79:A:THR:H	5	0.84
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	11	0.84
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	3	0.84
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	3	0.84
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	3	0.84
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	3	0.84
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB2	20	0.84
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB3	20	0.84
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB2	20	0.84
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB3	20	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	13	0.84
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	14	0.84
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	11	0.84
(1,452)	1:53:A:LEU:HD13	1:56:A:HIS:HA	11	0.84
(1,452)	1:53:A:LEU:HD23	1:56:A:HIS:HA	11	0.84
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	2	0.84
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	2	0.84
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	4	0.84
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	7	0.84
(1,292)	1:30:A:GLU:HB2	1:58:A:VAL:HG23	2	0.84
(1,292)	1:30:A:GLU:HB3	1:58:A:VAL:HG23	2	0.84
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	13	0.84
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	11	0.84
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	11	0.84
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	9	0.84
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	9	0.84
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	9	0.84
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	9	0.84
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	13	0.84
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	6	0.84
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	6	0.84
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	4	0.84
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	4	0.84
(1,191)	1:22:A:MET:H	1:89:A:ILE:HD13	15	0.84
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	12	0.84
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	12	0.84
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	3	0.84
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	3	0.84
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	18	0.84
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	8	0.84
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	17	0.84
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	9	0.84
(1,150)	1:20:A:VAL:HG23	1:38:A:VAL:HG23	20	0.84
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	10	0.84
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	10	0.84
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	6	0.84
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	6	0.84
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	5	0.84
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	1	0.84
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	13	0.84
(1,31)	1:12:A:ILE:H	1:12:A:ILE:HB	10	0.84
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	13	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	13	0.84
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	7	0.83
(2,36)	1:112:A:ASP:O	1:116:A:ILE:H	8	0.83
(2,33)	1:109:A:MET:O	1:113:A:ILE:H	10	0.83
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	16	0.83
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	12	0.83
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	6	0.83
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	8	0.83
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	7	0.83
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	7	0.83
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	13	0.83
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	13	0.83
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	10	0.83
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	7	0.83
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	7	0.83
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	18	0.83
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	18	0.83
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	12	0.83
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	10	0.83
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	10	0.83
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	12	0.83
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	12	0.83
(1,1924)	1:221:A:GLU:HB2	1:222:A:ILE:HB	12	0.83
(1,1924)	1:221:A:GLU:HB3	1:222:A:ILE:HB	12	0.83
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	5	0.83
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	1	0.83
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	1	0.83
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	7	0.83
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	7	0.83
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	20	0.83
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	14	0.83
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	6	0.83
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	6	0.83
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	1	0.83
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	10	0.83
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	10	0.83
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	4	0.83
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	4	0.83
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	4	0.83
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	4	0.83
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	16	0.83
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	19	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	19	0.83
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	15	0.83
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	12	0.83
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	3	0.83
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	19	0.83
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	13	0.83
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	5	0.83
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	7	0.83
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	4	0.83
(1,1489)	1:178:A:PHE:H	1:211:A:VAL:HA	12	0.83
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	13	0.83
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	12	0.83
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	18	0.83
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	19	0.83
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	1	0.83
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	1	0.83
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	1	0.83
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	1	0.83
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	17	0.83
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	17	0.83
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	17	0.83
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	17	0.83
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	18	0.83
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	18	0.83
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	18	0.83
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	18	0.83
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	4	0.83
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	14	0.83
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	17	0.83
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	19	0.83
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	11	0.83
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	1	0.83
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	16	0.83
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	16	0.83
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	20	0.83
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	18	0.83
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	10	0.83
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	10	0.83
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	16	0.83
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	16	0.83
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	15	0.83
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	15	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	2	0.83
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	16	0.83
(1,815)	1:86:A:CYS:HA	1:89:A:ILE:HD13	9	0.83
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	5	0.83
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	5	0.83
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	19	0.83
(1,582)	1:67:A:VAL:HG13	1:68:A:ALA:H	19	0.83
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	7	0.83
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	1	0.83
(1,414)	1:49:A:LEU:HA	1:52:A:VAL:HA	11	0.83
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	13	0.83
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	17	0.83
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	9	0.83
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	12	0.83
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	16	0.83
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	8	0.83
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	16	0.83
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	16	0.83
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	16	0.83
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	16	0.83
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	9	0.83
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	9	0.83
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	18	0.83
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	18	0.83
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	4	0.83
(1,142)	1:20:A:VAL:HB	1:89:A:ILE:HG23	11	0.83
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	16	0.83
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	2	0.83
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	2	0.83
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	20	0.83
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	20	0.83
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	3	0.82
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	14	0.82
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	15	0.82
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	9	0.82
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	5	0.82
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	5	0.82
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	3	0.82
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	3	0.82
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	16	0.82
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	15	0.82
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	3	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	7	0.82
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	17	0.82
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	2	0.82
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	9	0.82
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	7	0.82
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	11	0.82
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	13	0.82
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	18	0.82
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	15	0.82
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	2	0.82
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	2	0.82
(1,1688)	1:193:A:LYS:HB2	1:198:A:VAL:HG23	20	0.82
(1,1688)	1:193:A:LYS:HB3	1:198:A:VAL:HG23	20	0.82
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	3	0.82
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	15	0.82
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	9	0.82
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	10	0.82
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	16	0.82
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	17	0.82
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	1	0.82
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	8	0.82
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	17	0.82
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	17	0.82
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	5	0.82
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	3	0.82
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	7	0.82
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	1	0.82
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	14	0.82
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	14	0.82
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	14	0.82
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	14	0.82
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	12	0.82
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB2	15	0.82
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB3	15	0.82
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	14	0.82
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	14	0.82
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	5	0.82
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	6	0.82
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	5	0.82
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	17	0.82
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	17	0.82
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG13	18	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG23	18	0.82
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	19	0.82
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	1	0.82
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	10	0.82
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	15	0.82
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	4	0.82
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	18	0.82
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	16	0.82
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	4	0.82
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	4	0.82
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	1	0.82
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	1	0.82
(1,777)	1:83:A:THR:HG23	1:84:A:GLU:H	5	0.82
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	16	0.82
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	10	0.82
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	8	0.82
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	8	0.82
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	8	0.82
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	15	0.82
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	1	0.82
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	1	0.82
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	2	0.82
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	5	0.82
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	5	0.82
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	6	0.82
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	6	0.82
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	17	0.82
(1,426)	1:51:A:GLU:HA	1:51:A:GLU:HG2	16	0.82
(1,426)	1:51:A:GLU:HA	1:51:A:GLU:HG3	16	0.82
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	17	0.82
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	2	0.82
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	12	0.82
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	12	0.82
(1,245)	1:25:A:ALA:HB3	1:26:A:GLY:H	15	0.82
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	16	0.82
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	3	0.82
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	3	0.82
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	5	0.82
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	5	0.82
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	8	0.82
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	5	0.82
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	5	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	7	0.82
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	7	0.82
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	12	0.82
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	19	0.82
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	19	0.82
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	11	0.82
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	18	0.82
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	13	0.82
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	17	0.81
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	18	0.81
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	2	0.81
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	8	0.81
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	8	0.81
(1,1977)	1:225:A:LEU:HG	1:226:A:ILE:HD13	15	0.81
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	12	0.81
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	13	0.81
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	13	0.81
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	8	0.81
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	13	0.81
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	6	0.81
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	7	0.81
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	19	0.81
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	6	0.81
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	6	0.81
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	17	0.81
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	2	0.81
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	16	0.81
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	19	0.81
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	2	0.81
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	1	0.81
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	1	0.81
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	16	0.81
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	17	0.81
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	4	0.81
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	2	0.81
(1,1411)	1:170:A:GLU:HA	1:171:A:ARG:H	19	0.81
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	5	0.81
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	4	0.81
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	18	0.81
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	12	0.81
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	13	0.81
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB2	4	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB3	4	0.81
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	15	0.81
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	19	0.81
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	10	0.81
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	19	0.81
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	19	0.81
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	8	0.81
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG2	8	0.81
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG3	8	0.81
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG2	8	0.81
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG3	8	0.81
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	6	0.81
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	4	0.81
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	9	0.81
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	5	0.81
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	10	0.81
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	10	0.81
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	9	0.81
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	9	0.81
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	12	0.81
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	18	0.81
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	18	0.81
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	18	0.81
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	15	0.81
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	18	0.81
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	18	0.81
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	19	0.81
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	19	0.81
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	2	0.81
(1,307)	1:31:A:ILE:HG23	1:59:A:PHE:H	10	0.81
(1,294)	1:30:A:GLU:HG2	1:31:A:ILE:HA	6	0.81
(1,294)	1:30:A:GLU:HG3	1:31:A:ILE:HA	6	0.81
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	5	0.81
(1,211)	1:22:A:MET:HG2	1:24:A:ARG:HG2	15	0.81
(1,211)	1:22:A:MET:HG2	1:24:A:ARG:HG3	15	0.81
(1,211)	1:22:A:MET:HG3	1:24:A:ARG:HG2	15	0.81
(1,211)	1:22:A:MET:HG3	1:24:A:ARG:HG3	15	0.81
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	15	0.81
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	15	0.81
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	11	0.81
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	17	0.81
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	5	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	9	0.81
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	20	0.8
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	13	0.8
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	3	0.8
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	2	0.8
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	6	0.8
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	13	0.8
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	2	0.8
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	5	0.8
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	12	0.8
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	12	0.8
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	6	0.8
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	6	0.8
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	12	0.8
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB2	1	0.8
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB3	1	0.8
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	7	0.8
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	19	0.8
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	16	0.8
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	5	0.8
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	4	0.8
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	4	0.8
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	18	0.8
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	14	0.8
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	18	0.8
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	19	0.8
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	15	0.8
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	15	0.8
(1,1668)	1:191:A:LYS:HE2	1:229:A:GLU:HG2	14	0.8
(1,1668)	1:191:A:LYS:HE2	1:229:A:GLU:HG3	14	0.8
(1,1668)	1:191:A:LYS:HE3	1:229:A:GLU:HG2	14	0.8
(1,1668)	1:191:A:LYS:HE3	1:229:A:GLU:HG3	14	0.8
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	10	0.8
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	14	0.8
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	6	0.8
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	4	0.8
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	4	0.8
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	19	0.8
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	5	0.8
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	5	0.8
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	5	0.8
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	5	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	13	0.8
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	14	0.8
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	15	0.8
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	15	0.8
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG2	11	0.8
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG3	11	0.8
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG2	6	0.8
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG3	6	0.8
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	1	0.8
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	14	0.8
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	11	0.8
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	11	0.8
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	3	0.8
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	17	0.8
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	19	0.8
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB2	14	0.8
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB3	14	0.8
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	19	0.8
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	17	0.8
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	17	0.8
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	17	0.8
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	17	0.8
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	6	0.8
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	10	0.8
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	10	0.8
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	8	0.8
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	8	0.8
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	13	0.8
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	13	0.8
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	8	0.8
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	4	0.8
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	18	0.8
(1,222)	1:23:A:LYS:HA	1:28:A:ARG:HG2	2	0.8
(1,222)	1:23:A:LYS:HA	1:28:A:ARG:HG3	2	0.8
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	16	0.8
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	16	0.8
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	18	0.8
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	18	0.8
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	4	0.8
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	15	0.8
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	15	0.8
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	6	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	8	0.8
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	11	0.79
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	10	0.79
(1,2135)	1:238:A:VAL:H	1:238:A:VAL:HG23	1	0.79
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	16	0.79
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	8	0.79
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	7	0.79
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	10	0.79
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	15	0.79
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	10	0.79
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	10	0.79
(1,1817)	1:203:A:ASP:H	1:248:A:ASP:H	5	0.79
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	9	0.79
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	16	0.79
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	9	0.79
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	3	0.79
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	14	0.79
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	18	0.79
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	10	0.79
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	10	0.79
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	5	0.79
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	5	0.79
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	9	0.79
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	9	0.79
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	18	0.79
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	7	0.79
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	19	0.79
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	19	0.79
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	16	0.79
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	16	0.79
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	2	0.79
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	2	0.79
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	4	0.79
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	4	0.79
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	13	0.79
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	13	0.79
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	16	0.79
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	19	0.79
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	19	0.79
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	14	0.79
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	14	0.79
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	13	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	13	0.79
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	18	0.79
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	8	0.79
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	1	0.79
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	1	0.79
(1,1237)	1:146:A:VAL:HG23	1:159:A:VAL:HG23	15	0.79
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	14	0.79
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	18	0.79
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	4	0.79
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	4	0.79
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	8	0.79
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	7	0.79
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	6	0.79
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	6	0.79
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	19	0.79
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	7	0.79
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	13	0.79
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	17	0.79
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	9	0.79
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	18	0.79
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	3	0.79
(1,486)	1:58:A:VAL:HG23	1:89:A:ILE:HB	4	0.79
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	18	0.79
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	20	0.79
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	2	0.79
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	12	0.79
(1,316)	1:32:A:ALA:HB3	1:55:A:THR:H	20	0.79
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	2	0.79
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	3	0.79
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	11	0.79
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	20	0.79
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	20	0.79
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	20	0.79
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	20	0.79
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	16	0.79
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	16	0.79
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	13	0.79
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	13	0.79
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	1	0.79
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	1	0.79
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	16	0.79
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	7	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	7	0.79
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	20	0.79
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	4	0.79
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	4	0.79
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	7	0.79
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	7	0.79
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	7	0.79
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	7	0.79
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	16	0.79
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	15	0.79
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	5	0.79
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	10	0.78
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	9	0.78
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	20	0.78
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	6	0.78
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	19	0.78
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	4	0.78
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	13	0.78
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	13	0.78
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	14	0.78
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	19	0.78
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	18	0.78
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	15	0.78
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	2	0.78
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	2	0.78
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	4	0.78
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	4	0.78
(1,1934)	1:222:A:ILE:HG12	1:226:A:ILE:HG12	19	0.78
(1,1934)	1:222:A:ILE:HG12	1:226:A:ILE:HG13	19	0.78
(1,1934)	1:222:A:ILE:HG13	1:226:A:ILE:HG12	19	0.78
(1,1934)	1:222:A:ILE:HG13	1:226:A:ILE:HG13	19	0.78
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	8	0.78
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	3	0.78
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	3	0.78
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	1	0.78
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	14	0.78
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	16	0.78
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	1	0.78
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	16	0.78
(1,1755)	1:199:A:ILE:HG23	1:211:A:VAL:H	15	0.78
(1,1749)	1:199:A:ILE:HB	1:211:A:VAL:H	4	0.78
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	6	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	8	0.78
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	8	0.78
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	3	0.78
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	3	0.78
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	18	0.78
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	18	0.78
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	1	0.78
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	1	0.78
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	12	0.78
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	12	0.78
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	12	0.78
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	12	0.78
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	13	0.78
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	13	0.78
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	7	0.78
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	20	0.78
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	20	0.78
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	19	0.78
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	19	0.78
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	19	0.78
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	19	0.78
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	19	0.78
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	7	0.78
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	15	0.78
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	16	0.78
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	16	0.78
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	18	0.78
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	12	0.78
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	6	0.78
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	12	0.78
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	13	0.78
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	13	0.78
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	13	0.78
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	5	0.78
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	5	0.78
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	9	0.78
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	10	0.78
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	6	0.78
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	6	0.78
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	6	0.78
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	6	0.78
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	17	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	17	0.78
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	1	0.78
(1,1180)	1:138:A:ALA:H	1:138:A:ALA:HB3	7	0.78
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	11	0.78
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	6	0.78
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	11	0.78
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	8	0.78
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	18	0.78
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	15	0.78
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	3	0.78
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	3	0.78
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	3	0.78
(1,710)	1:75:A:SER:H	1:79:A:THR:H	3	0.78
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	4	0.78
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	9	0.78
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	9	0.78
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	1	0.78
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	8	0.78
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	2	0.78
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	20	0.78
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	1	0.78
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	15	0.78
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	15	0.78
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	15	0.78
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	19	0.78
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	12	0.78
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	12	0.78
(1,277)	1:29:A:PHE:HB2	1:58:A:VAL:HG13	17	0.78
(1,277)	1:29:A:PHE:HB3	1:58:A:VAL:HG13	17	0.78
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	12	0.78
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	12	0.78
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	14	0.78
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	14	0.78
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	16	0.78
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	16	0.78
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	14	0.78
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	15	0.78
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	15	0.78
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	7	0.78
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	7	0.78
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	19	0.78
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	17	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	17	0.78
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	13	0.78
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	17	0.78
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	5	0.77
(2,16)	1:61:A:ASN:H	1:66:A:GLN:O	1	0.77
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	14	0.77
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	20	0.77
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	6	0.77
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	6	0.77
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	6	0.77
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	7	0.77
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	5	0.77
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	11	0.77
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	5	0.77
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	5	0.77
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	5	0.77
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	18	0.77
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	18	0.77
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	18	0.77
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	18	0.77
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	18	0.77
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB3	18	0.77
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB2	18	0.77
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	8	0.77
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	19	0.77
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	19	0.77
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	5	0.77
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	10	0.77
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	10	0.77
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	13	0.77
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	16	0.77
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	8	0.77
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	10	0.77
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	6	0.77
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	6	0.77
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	4	0.77
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	4	0.77
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	13	0.77
(1,1377)	1:165:A:GLU:H	1:165:A:GLU:HG2	1	0.77
(1,1377)	1:165:A:GLU:H	1:165:A:GLU:HG3	1	0.77
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	13	0.77
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	4	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	4	0.77
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	10	0.77
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	19	0.77
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	18	0.77
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	15	0.77
(1,1198)	1:140:A:LYS:H	1:143:A:HIS:H	2	0.77
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	18	0.77
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	8	0.77
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	8	0.77
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	8	0.77
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	8	0.77
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	13	0.77
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	14	0.77
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	13	0.77
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	13	0.77
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	9	0.77
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	9	0.77
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	9	0.77
(1,896)	1:90:A:LEU:HD13	1:95:A:VAL:HG23	15	0.77
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG13	15	0.77
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG23	15	0.77
(1,895)	1:90:A:LEU:HD13	1:95:A:VAL:HB	7	0.77
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	4	0.77
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	8	0.77
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	8	0.77
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	8	0.77
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	8	0.77
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	1	0.77
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	1	0.77
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	1	0.77
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	1	0.77
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	8	0.77
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	8	0.77
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	15	0.77
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	6	0.77
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	8	0.77
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	17	0.77
(1,695)	1:74:A:ILE:HG12	1:80:A:ASP:HA	8	0.77
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	1	0.77
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	10	0.77
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	11	0.77
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	11	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	10	0.77
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	19	0.77
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	5	0.77
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	6	0.77
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	18	0.77
(1,574)	1:67:A:VAL:H	1:67:A:VAL:HB	10	0.77
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	12	0.77
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	11	0.77
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	14	0.77
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	5	0.77
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	13	0.77
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	13	0.77
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	13	0.77
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	9	0.77
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	9	0.77
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	6	0.77
(1,279)	1:29:A:PHE:HE1	1:60:A:VAL:HG23	8	0.77
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	6	0.77
(1,238)	1:24:A:ARG:H	1:27:A:LYS:HB2	5	0.77
(1,238)	1:24:A:ARG:H	1:27:A:LYS:HB3	5	0.77
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	3	0.77
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	3	0.77
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	16	0.77
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	16	0.77
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	1	0.77
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	14	0.77
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	9	0.77
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	9	0.77
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	7	0.77
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	7	0.77
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	12	0.77
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	17	0.77
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	14	0.77
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	5	0.77
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	5	0.77
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	14	0.77
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	12	0.77
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	12	0.77
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	6	0.76
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	14	0.76
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	18	0.76
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	19	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	4	0.76
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	1	0.76
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	8	0.76
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	8	0.76
(1,1797)	1:202:A:GLU:HA	1:210:A:ILE:HG23	1	0.76
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	6	0.76
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	15	0.76
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	11	0.76
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	3	0.76
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	15	0.76
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	17	0.76
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	17	0.76
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	20	0.76
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	17	0.76
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	17	0.76
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	10	0.76
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	8	0.76
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	16	0.76
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	16	0.76
(1,1506)	1:179:A:ILE:HG23	1:180:A:LEU:H	19	0.76
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	4	0.76
(1,1432)	1:174:A:MET:HB2	1:175:A:ARG:HG2	8	0.76
(1,1432)	1:174:A:MET:HB2	1:175:A:ARG:HG3	8	0.76
(1,1432)	1:174:A:MET:HB3	1:175:A:ARG:HG2	8	0.76
(1,1432)	1:174:A:MET:HB3	1:175:A:ARG:HG3	8	0.76
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	7	0.76
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	9	0.76
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	9	0.76
(1,1326)	1:161:A:LYS:H	1:161:A:LYS:HG2	20	0.76
(1,1326)	1:161:A:LYS:H	1:161:A:LYS:HG3	20	0.76
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	12	0.76
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	12	0.76
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	15	0.76
(1,1243)	1:152:A:THR:HB	1:153:A:LYS:H	17	0.76
(1,1241)	1:152:A:THR:HA	1:156:A:ALA:H	17	0.76
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	12	0.76
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	7	0.76
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	19	0.76
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	1	0.76
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	4	0.76
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	4	0.76
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	11	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	11	0.76
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	14	0.76
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	18	0.76
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	10	0.76
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	10	0.76
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	17	0.76
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	17	0.76
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	12	0.76
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	2	0.76
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	2	0.76
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	20	0.76
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	20	0.76
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	8	0.76
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	6	0.76
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	14	0.76
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	13	0.76
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	8	0.76
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	20	0.76
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	3	0.76
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	4	0.76
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	8	0.76
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	14	0.76
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	13	0.76
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	13	0.76
(1,339)	1:38:A:VAL:HG13	1:39:A:VAL:H	1	0.76
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	4	0.76
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	16	0.76
(1,306)	1:31:A:ILE:HG23	1:58:A:VAL:HB	20	0.76
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	18	0.76
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	4	0.76
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	20	0.76
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	20	0.76
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	2	0.76
(1,31)	1:12:A:ILE:H	1:12:A:ILE:HB	19	0.76
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	10	0.75
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	13	0.75
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	13	0.75
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	4	0.75
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	4	0.75
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	3	0.75
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	9	0.75
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	7	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1934)	1:222:A:ILE:HG12	1:226:A:ILE:HG12	12	0.75
(1,1934)	1:222:A:ILE:HG12	1:226:A:ILE:HG13	12	0.75
(1,1934)	1:222:A:ILE:HG13	1:226:A:ILE:HG12	12	0.75
(1,1934)	1:222:A:ILE:HG13	1:226:A:ILE:HG13	12	0.75
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	2	0.75
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	2	0.75
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	1	0.75
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	17	0.75
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	18	0.75
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	19	0.75
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	16	0.75
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	16	0.75
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	5	0.75
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	5	0.75
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	19	0.75
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	18	0.75
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	18	0.75
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	16	0.75
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	5	0.75
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	5	0.75
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	5	0.75
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	8	0.75
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	8	0.75
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	18	0.75
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	13	0.75
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	9	0.75
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	11	0.75
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	14	0.75
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	13	0.75
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	11	0.75
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	11	0.75
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	13	0.75
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	2	0.75
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	8	0.75
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	11	0.75
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	11	0.75
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	15	0.75
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	15	0.75
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	15	0.75
(1,1180)	1:138:A:ALA:H	1:138:A:ALA:HB3	18	0.75
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	11	0.75
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	11	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	8	0.75
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	8	0.75
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	20	0.75
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	2	0.75
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	15	0.75
(1,983)	1:114:A:ALA:HA	1:116:A:ILE:H	8	0.75
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	6	0.75
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	6	0.75
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	10	0.75
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	10	0.75
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG2	16	0.75
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG3	16	0.75
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	13	0.75
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	13	0.75
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	8	0.75
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	3	0.75
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	13	0.75
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	13	0.75
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	16	0.75
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	11	0.75
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	11	0.75
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	15	0.75
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	9	0.75
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	19	0.75
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	9	0.75
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	13	0.75
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	19	0.75
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	19	0.75
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	1	0.75
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	17	0.75
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	17	0.75
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	8	0.75
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	7	0.75
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	7	0.75
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	14	0.75
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	14	0.75
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	14	0.75
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	14	0.75
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	15	0.75
(1,142)	1:20:A:VAL:HB	1:89:A:ILE:HG23	7	0.75
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	6	0.75
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	19	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	11	0.75
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	16	0.75
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	8	0.75
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	11	0.75
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	11	0.75
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	20	0.75
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	20	0.75
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	12	0.75
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	12	0.75
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	17	0.75
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	17	0.75
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	11	0.75
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	12	0.74
(2,36)	1:112:A:ASP:O	1:116:A:ILE:H	3	0.74
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	15	0.74
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	14	0.74
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	6	0.74
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	6	0.74
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	9	0.74
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	9	0.74
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	12	0.74
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG2	18	0.74
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG3	18	0.74
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG2	18	0.74
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG3	18	0.74
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	16	0.74
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	5	0.74
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	4	0.74
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	9	0.74
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	9	0.74
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB2	10	0.74
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB3	10	0.74
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	11	0.74
(1,1803)	1:202:A:GLU:HB2	1:248:A:ASP:H	9	0.74
(1,1803)	1:202:A:GLU:HB3	1:248:A:ASP:H	9	0.74
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	7	0.74
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	7	0.74
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	3	0.74
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	20	0.74
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG2	7	0.74
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG3	7	0.74
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	9	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	13	0.74
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	13	0.74
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	17	0.74
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	20	0.74
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	5	0.74
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	16	0.74
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	16	0.74
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	12	0.74
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	12	0.74
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	1	0.74
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	1	0.74
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	2	0.74
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	4	0.74
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB2	9	0.74
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB3	9	0.74
(1,1180)	1:138:A:ALA:H	1:138:A:ALA:HB3	12	0.74
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	14	0.74
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	14	0.74
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	14	0.74
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	16	0.74
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	18	0.74
(1,1093)	1:132:A:VAL:HA	1:135:A:ILE:HB	9	0.74
(1,1024)	1:118:A:ALA:HB3	1:132:A:VAL:H	9	0.74
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	17	0.74
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	14	0.74
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	19	0.74
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	10	0.74
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG2	16	0.74
(1,843)	1:87:A:LYS:HE2	1:88:A:GLN:HG3	16	0.74
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG2	16	0.74
(1,843)	1:87:A:LYS:HE3	1:88:A:GLN:HG3	16	0.74
(1,795)	1:85:A:ILE:H	1:85:A:ILE:HG12	6	0.74
(1,795)	1:85:A:ILE:H	1:85:A:ILE:HG13	6	0.74
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	6	0.74
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	6	0.74
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	11	0.74
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	8	0.74
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	12	0.74
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	18	0.74
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	18	0.74
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	5	0.74
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	5	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	11	0.74
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	3	0.74
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	8	0.74
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	8	0.74
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	12	0.74
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	19	0.74
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	16	0.74
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	1	0.74
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	7	0.74
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	8	0.74
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	3	0.74
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	3	0.74
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	18	0.74
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	18	0.74
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	4	0.74
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	4	0.74
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	13	0.74
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	13	0.74
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	16	0.74
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	6	0.74
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	6	0.74
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	18	0.74
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	18	0.74
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	13	0.74
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	13	0.74
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	16	0.74
(1,39)	1:12:A:ILE:HA	1:12:A:ILE:HG23	18	0.74
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	5	0.74
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	9	0.73
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	7	0.73
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	10	0.73
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	17	0.73
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	11	0.73
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	4	0.73
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD13	2	0.73
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD23	2	0.73
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	6	0.73
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	11	0.73
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	6	0.73
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	15	0.73
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	7	0.73
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	7	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	5	0.73
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	5	0.73
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	7	0.73
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	16	0.73
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	6	0.73
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	10	0.73
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	10	0.73
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	10	0.73
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	10	0.73
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	8	0.73
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	12	0.73
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	18	0.73
(1,1668)	1:191:A:LYS:HE2	1:229:A:GLU:HG2	15	0.73
(1,1668)	1:191:A:LYS:HE2	1:229:A:GLU:HG3	15	0.73
(1,1668)	1:191:A:LYS:HE3	1:229:A:GLU:HG2	15	0.73
(1,1668)	1:191:A:LYS:HE3	1:229:A:GLU:HG3	15	0.73
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	16	0.73
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	16	0.73
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	19	0.73
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	19	0.73
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	9	0.73
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	13	0.73
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	11	0.73
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	11	0.73
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	11	0.73
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	11	0.73
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	2	0.73
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	9	0.73
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	9	0.73
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	7	0.73
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	7	0.73
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	7	0.73
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	7	0.73
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	1	0.73
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	1	0.73
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	19	0.73
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	9	0.73
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	9	0.73
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	2	0.73
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	11	0.73
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	8	0.73
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	10	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	20	0.73
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	20	0.73
(1,1249)	1:153:A:LYS:H	1:154:A:GLN:H	1	0.73
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	6	0.73
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	17	0.73
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	16	0.73
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	8	0.73
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	8	0.73
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	2	0.73
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	2	0.73
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	6	0.73
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	6	0.73
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	15	0.73
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	7	0.73
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	14	0.73
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	14	0.73
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	14	0.73
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	14	0.73
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	7	0.73
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	7	0.73
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	7	0.73
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	7	0.73
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	17	0.73
(1,695)	1:74:A:ILE:HG12	1:80:A:ASP:HA	16	0.73
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	14	0.73
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	14	0.73
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	14	0.73
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	11	0.73
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	11	0.73
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB2	1	0.73
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB3	1	0.73
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB2	1	0.73
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB3	1	0.73
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	9	0.73
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	9	0.73
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	20	0.73
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	20	0.73
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	6	0.73
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	6	0.73
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	6	0.73
(1,388)	1:45:A:VAL:HB	1:46:A:GLU:HA	20	0.73
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	14	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	14	0.73
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	14	0.73
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	14	0.73
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG2	19	0.73
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG3	19	0.73
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG2	19	0.73
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG3	19	0.73
(1,339)	1:38:A:VAL:HG13	1:39:A:VAL:H	18	0.73
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	8	0.73
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	12	0.73
(1,292)	1:30:A:GLU:HB2	1:58:A:VAL:HG23	4	0.73
(1,292)	1:30:A:GLU:HB3	1:58:A:VAL:HG23	4	0.73
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	8	0.73
(1,183)	1:22:A:MET:H	1:29:A:PHE:H	8	0.73
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	1	0.73
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	1	0.73
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	10	0.73
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	11	0.73
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	11	0.73
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	11	0.73
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	7	0.73
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	3	0.73
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	3	0.73
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	6	0.72
(2,29)	1:84:A:GLU:O	1:88:A:GLN:H	16	0.72
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	12	0.72
(1,2225)	1:251:A:PHE:HB2	1:252:A:GLU:HG2	9	0.72
(1,2225)	1:251:A:PHE:HB2	1:252:A:GLU:HG3	9	0.72
(1,2225)	1:251:A:PHE:HB3	1:252:A:GLU:HG2	9	0.72
(1,2225)	1:251:A:PHE:HB3	1:252:A:GLU:HG3	9	0.72
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	9	0.72
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD2	13	0.72
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD3	13	0.72
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	1	0.72
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	1	0.72
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	20	0.72
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	19	0.72
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	19	0.72
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	19	0.72
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	11	0.72
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	18	0.72
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	17	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	17	0.72
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	16	0.72
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	16	0.72
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	12	0.72
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	12	0.72
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	4	0.72
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	18	0.72
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	16	0.72
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	3	0.72
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	15	0.72
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	3	0.72
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	3	0.72
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	20	0.72
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	5	0.72
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	5	0.72
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	3	0.72
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	7	0.72
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	7	0.72
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	16	0.72
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	5	0.72
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	11	0.72
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	14	0.72
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	17	0.72
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	17	0.72
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	5	0.72
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	5	0.72
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	19	0.72
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	19	0.72
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	12	0.72
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	2	0.72
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	17	0.72
(1,1443)	1:175:A:ARG:HG2	1:211:A:VAL:HG13	19	0.72
(1,1443)	1:175:A:ARG:HG3	1:211:A:VAL:HG13	19	0.72
(1,1377)	1:165:A:GLU:H	1:165:A:GLU:HG2	19	0.72
(1,1377)	1:165:A:GLU:H	1:165:A:GLU:HG3	19	0.72
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	7	0.72
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	9	0.72
(1,1209)	1:142:A:ILE:H	1:143:A:HIS:H	2	0.72
(1,1180)	1:138:A:ALA:H	1:138:A:ALA:HB3	10	0.72
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	4	0.72
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	1	0.72
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	9	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	17	0.72
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	16	0.72
(1,1029)	1:119:A:ASP:H	1:120:A:LYS:H	14	0.72
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	20	0.72
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	11	0.72
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	11	0.72
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	19	0.72
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	10	0.72
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	7	0.72
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	7	0.72
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	7	0.72
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	7	0.72
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	13	0.72
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	14	0.72
(1,780)	1:84:A:GLU:H	1:84:A:GLU:HG2	17	0.72
(1,780)	1:84:A:GLU:H	1:84:A:GLU:HG3	17	0.72
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	15	0.72
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	20	0.72
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	18	0.72
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	18	0.72
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	18	0.72
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	18	0.72
(1,534)	1:61:A:ASN:HB2	1:64:A:LYS:HG2	7	0.72
(1,534)	1:61:A:ASN:HB2	1:64:A:LYS:HG3	7	0.72
(1,534)	1:61:A:ASN:HB3	1:64:A:LYS:HG2	7	0.72
(1,534)	1:61:A:ASN:HB3	1:64:A:LYS:HG3	7	0.72
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	16	0.72
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	8	0.72
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	3	0.72
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	18	0.72
(1,474)	1:57:A:SER:HB2	1:69:A:LYS:HA	10	0.72
(1,474)	1:57:A:SER:HB3	1:69:A:LYS:HA	10	0.72
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	9	0.72
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	1	0.72
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	20	0.72
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	3	0.72
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	3	0.72
(1,292)	1:30:A:GLU:HB2	1:58:A:VAL:HG23	7	0.72
(1,292)	1:30:A:GLU:HB3	1:58:A:VAL:HG23	7	0.72
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	4	0.72
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	4	0.72
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	12	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	1	0.72
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	3	0.72
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	11	0.72
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	19	0.72
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	2	0.72
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	17	0.72
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	19	0.72
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	14	0.72
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	14	0.72
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	17	0.72
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	17	0.72
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	15	0.72
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	15	0.72
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	13	0.72
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	5	0.71
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	14	0.71
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	10	0.71
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	18	0.71
(2,36)	1:112:A:ASP:O	1:116:A:ILE:H	13	0.71
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	11	0.71
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB2	3	0.71
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB3	3	0.71
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB2	3	0.71
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB3	3	0.71
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	11	0.71
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	11	0.71
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	16	0.71
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	16	0.71
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	12	0.71
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	16	0.71
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	6	0.71
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	9	0.71
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	8	0.71
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	20	0.71
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	20	0.71
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	1	0.71
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	1	0.71
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	12	0.71
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	13	0.71
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	6	0.71
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	19	0.71
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	6	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	6	0.71
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	6	0.71
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	6	0.71
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	16	0.71
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	17	0.71
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	4	0.71
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	4	0.71
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	4	0.71
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	4	0.71
(1,1803)	1:202:A:GLU:HB2	1:248:A:ASP:H	15	0.71
(1,1803)	1:202:A:GLU:HB3	1:248:A:ASP:H	15	0.71
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	1	0.71
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	1	0.71
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	4	0.71
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	7	0.71
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	5	0.71
(1,1690)	1:193:A:LYS:HG2	1:198:A:VAL:HG13	1	0.71
(1,1690)	1:193:A:LYS:HG3	1:198:A:VAL:HG13	1	0.71
(1,1690)	1:193:A:LYS:HG2	1:198:A:VAL:HG23	1	0.71
(1,1690)	1:193:A:LYS:HG3	1:198:A:VAL:HG23	1	0.71
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	1	0.71
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	1	0.71
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	11	0.71
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	16	0.71
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	14	0.71
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	14	0.71
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	19	0.71
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	2	0.71
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	2	0.71
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	2	0.71
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	14	0.71
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	20	0.71
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	19	0.71
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	12	0.71
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	2	0.71
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	7	0.71
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	4	0.71
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	2	0.71
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	2	0.71
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	2	0.71
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	2	0.71
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	13	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	13	0.71
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	16	0.71
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	14	0.71
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	19	0.71
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB2	20	0.71
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB3	20	0.71
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	1	0.71
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	10	0.71
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	10	0.71
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	10	0.71
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	10	0.71
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	4	0.71
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	15	0.71
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	15	0.71
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	17	0.71
(1,841)	1:87:A:LYS:HE2	1:88:A:GLN:HA	1	0.71
(1,841)	1:87:A:LYS:HE3	1:88:A:GLN:HA	1	0.71
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	4	0.71
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	5	0.71
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	16	0.71
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	16	0.71
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	9	0.71
(1,644)	1:72:A:ASP:HA	1:74:A:ILE:HG23	3	0.71
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	18	0.71
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	10	0.71
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB2	1	0.71
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB3	1	0.71
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	5	0.71
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	10	0.71
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	18	0.71
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	6	0.71
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	16	0.71
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	1	0.71
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	1	0.71
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	3	0.71
(1,351)	1:39:A:VAL:H	1:40:A:GLY:H	16	0.71
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	13	0.71
(1,256)	1:27:A:LYS:HG2	1:60:A:VAL:HA	20	0.71
(1,256)	1:27:A:LYS:HG3	1:60:A:VAL:HA	20	0.71
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	9	0.71
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	11	0.71
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	11	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	11	0.71
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	11	0.71
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	2	0.71
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	17	0.71
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	13	0.71
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	17	0.71
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	19	0.71
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	4	0.71
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	4	0.71
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	4	0.71
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	17	0.71
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	16	0.7
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	16	0.7
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	16	0.7
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	13	0.7
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	5	0.7
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	20	0.7
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	16	0.7
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	11	0.7
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	15	0.7
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	15	0.7
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	15	0.7
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	15	0.7
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	15	0.7
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	8	0.7
(1,1817)	1:203:A:ASP:H	1:248:A:ASP:H	15	0.7
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	2	0.7
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	9	0.7
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	12	0.7
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	16	0.7
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	4	0.7
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	16	0.7
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	5	0.7
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG2	16	0.7
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG3	16	0.7
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG2	16	0.7
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG3	16	0.7
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	8	0.7
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	11	0.7
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	11	0.7
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	11	0.7
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	7	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1502)	1:179:A:ILE:HA	1:179:A:ILE:HD13	17	0.7
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	16	0.7
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	16	0.7
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	16	0.7
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	16	0.7
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	9	0.7
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	9	0.7
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	4	0.7
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	4	0.7
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	12	0.7
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	8	0.7
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	8	0.7
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	19	0.7
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	19	0.7
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	19	0.7
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	19	0.7
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	18	0.7
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	12	0.7
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	17	0.7
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	18	0.7
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	19	0.7
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	19	0.7
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD2	18	0.7
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD3	18	0.7
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	4	0.7
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	4	0.7
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	4	0.7
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	4	0.7
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	9	0.7
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	9	0.7
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	12	0.7
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	12	0.7
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	16	0.7
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	16	0.7
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	1	0.7
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	1	0.7
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	2	0.7
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	2	0.7
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	16	0.7
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	16	0.7
(1,742)	1:79:A:THR:HG23	1:81:A:ASP:H	6	0.7
(1,710)	1:75:A:SER:H	1:79:A:THR:H	17	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	2	0.7
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	2	0.7
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	12	0.7
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	12	0.7
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	5	0.7
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	5	0.7
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	5	0.7
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	18	0.7
(1,635)	1:71:A:GLU:HA	1:74:A:ILE:HD13	6	0.7
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	19	0.7
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	19	0.7
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	18	0.7
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	20	0.7
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	13	0.7
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	10	0.7
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	12	0.7
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	3	0.7
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	4	0.7
(1,354)	1:39:A:VAL:HG23	1:95:A:VAL:HG13	3	0.7
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	11	0.7
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	8	0.7
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	3	0.7
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	3	0.7
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	10	0.7
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	20	0.7
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	5	0.7
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	14	0.7
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	7	0.7
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	15	0.7
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	20	0.7
(1,104)	1:18:A:ALA:H	1:34:A:TYR:H	11	0.7
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	20	0.7
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	4	0.7
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	2	0.7
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	1	0.7
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	1	0.7
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	14	0.69
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	16	0.69
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	5	0.69
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	19	0.69
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	16	0.69
(1,2169)	1:244:A:VAL:HG13	1:245:A:GLU:H	8	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	18	0.69
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD2	19	0.69
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD3	19	0.69
(1,2147)	1:241:A:LEU:HD13	1:244:A:VAL:HA	1	0.69
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	4	0.69
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	7	0.69
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	16	0.69
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	16	0.69
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	16	0.69
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	3	0.69
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	13	0.69
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	13	0.69
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	9	0.69
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	9	0.69
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	6	0.69
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	6	0.69
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	17	0.69
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	17	0.69
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	19	0.69
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	7	0.69
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	18	0.69
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	7	0.69
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	19	0.69
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	17	0.69
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	17	0.69
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	16	0.69
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	10	0.69
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	14	0.69
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	14	0.69
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	16	0.69
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	16	0.69
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	12	0.69
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	12	0.69
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	7	0.69
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	7	0.69
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	15	0.69
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	7	0.69
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	15	0.69
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	15	0.69
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	14	0.69
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	20	0.69
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	5	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	5	0.69
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	10	0.69
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	7	0.69
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	7	0.69
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	14	0.69
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	1	0.69
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	8	0.69
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	8	0.69
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	7	0.69
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	15	0.69
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	6	0.69
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	19	0.69
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	19	0.69
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	19	0.69
(1,1311)	1:159:A:VAL:HB	1:160:A:ILE:HB	15	0.69
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	4	0.69
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	4	0.69
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	12	0.69
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	12	0.69
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	7	0.69
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	4	0.69
(1,1243)	1:152:A:THR:HB	1:153:A:LYS:H	13	0.69
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	15	0.69
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	16	0.69
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	11	0.69
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	11	0.69
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	11	0.69
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	11	0.69
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	6	0.69
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	2	0.69
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	3	0.69
(1,1056)	1:124:A:PRO:HA	1:125:A:GLU:HG2	10	0.69
(1,1056)	1:124:A:PRO:HA	1:125:A:GLU:HG3	10	0.69
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	20	0.69
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	14	0.69
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	14	0.69
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	2	0.69
(1,998)	1:116:A:ILE:H	1:119:A:ASP:H	19	0.69
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	12	0.69
(1,987)	1:114:A:ALA:HB3	1:132:A:VAL:HG13	14	0.69
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	4	0.69
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	17	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	17	0.69
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	17	0.69
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	17	0.69
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	18	0.69
(1,742)	1:79:A:THR:HG23	1:81:A:ASP:H	18	0.69
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	2	0.69
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	20	0.69
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	11	0.69
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	20	0.69
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	19	0.69
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	7	0.69
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	1	0.69
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	17	0.69
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	7	0.69
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	20	0.69
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	20	0.69
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	20	0.69
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	20	0.69
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	9	0.69
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	1	0.69
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	18	0.69
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	18	0.69
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	10	0.69
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB2	19	0.69
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB3	19	0.69
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	3	0.69
(1,476)	1:58:A:VAL:H	1:67:A:VAL:HG13	3	0.69
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	8	0.69
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	8	0.69
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	10	0.69
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB2	1	0.69
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB3	1	0.69
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB2	1	0.69
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB3	1	0.69
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	3	0.69
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	16	0.69
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	16	0.69
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	4	0.69
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	18	0.69
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	11	0.69
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	9	0.69
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	9	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	9	0.69
(1,245)	1:25:A:ALA:HB3	1:26:A:GLY:H	7	0.69
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	7	0.69
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	7	0.69
(1,216)	1:23:A:LYS:H	1:29:A:PHE:H	8	0.69
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	1	0.69
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	20	0.69
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	18	0.69
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	15	0.69
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	15	0.69
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	15	0.69
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	14	0.69
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	19	0.69
(1,22)	1:9:A:THR:HA	1:9:A:THR:HG23	6	0.69
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	10	0.69
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	10	0.69
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	18	0.68
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	9	0.68
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	9	0.68
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	10	0.68
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	13	0.68
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	20	0.68
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	20	0.68
(1,2170)	1:244:A:VAL:HG23	1:245:A:GLU:HA	5	0.68
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	19	0.68
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	8	0.68
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	13	0.68
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	9	0.68
(1,2032)	1:227:A:LYS:HA	1:232:A:GLY:H	4	0.68
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	12	0.68
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	12	0.68
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	18	0.68
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	18	0.68
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG2	13	0.68
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG3	13	0.68
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG2	13	0.68
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG3	13	0.68
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	17	0.68
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	17	0.68
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	12	0.68
(1,1884)	1:212:A:CYS:H	1:213:A:LEU:HD23	12	0.68
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	11	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	2	0.68
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	5	0.68
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	10	0.68
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	19	0.68
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	19	0.68
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	7	0.68
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	8	0.68
(1,1742)	1:199:A:ILE:H	1:213:A:LEU:H	8	0.68
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	15	0.68
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	17	0.68
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	20	0.68
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	20	0.68
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	4	0.68
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	4	0.68
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	14	0.68
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	15	0.68
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	15	0.68
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	12	0.68
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	12	0.68
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	14	0.68
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	14	0.68
(1,1542)	1:182:A:VAL:HG13	1:183:A:ASN:HA	5	0.68
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	8	0.68
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB2	20	0.68
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB3	20	0.68
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	11	0.68
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	19	0.68
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	19	0.68
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	10	0.68
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	10	0.68
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	1	0.68
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	13	0.68
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	6	0.68
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	6	0.68
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	9	0.68
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	9	0.68
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	8	0.68
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	13	0.68
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	1	0.68
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	17	0.68
(1,1279)	1:155:A:GLN:HG2	1:158:A:GLU:H	18	0.68
(1,1279)	1:155:A:GLN:HG3	1:158:A:GLU:H	18	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	13	0.68
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	13	0.68
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	13	0.68
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	13	0.68
(1,1274)	1:155:A:GLN:HA	1:159:A:VAL:H	10	0.68
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	5	0.68
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	1	0.68
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	5	0.68
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	5	0.68
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG13	19	0.68
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG23	19	0.68
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	11	0.68
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	11	0.68
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	11	0.68
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	11	0.68
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	3	0.68
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	1	0.68
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	2	0.68
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	16	0.68
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	16	0.68
(1,703)	1:74:A:ILE:HD13	1:79:A:THR:HA	12	0.68
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	17	0.68
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	17	0.68
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	12	0.68
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	3	0.68
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	12	0.68
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	16	0.68
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	15	0.68
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	15	0.68
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	11	0.68
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	19	0.68
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	19	0.68
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	19	0.68
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	19	0.68
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	10	0.68
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	20	0.68
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	20	0.68
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	17	0.68
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	4	0.68
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	13	0.68
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	18	0.68
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	18	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	4	0.68
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	4	0.68
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	14	0.68
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	2	0.68
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	20	0.68
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	2	0.68
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	16	0.68
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	5	0.68
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	5	0.68
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	7	0.68
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	20	0.68
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	20	0.68
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	13	0.68
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	15	0.68
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	15	0.68
(1,25)	1:11:A:GLN:H	1:12:A:ILE:H	12	0.68
(1,22)	1:9:A:THR:HA	1:9:A:THR:HG23	13	0.68
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	2	0.67
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	8	0.67
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	14	0.67
(2,29)	1:84:A:GLU:O	1:88:A:GLN:H	12	0.67
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	15	0.67
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	2	0.67
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	14	0.67
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	14	0.67
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	17	0.67
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	19	0.67
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	1	0.67
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	15	0.67
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	18	0.67
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	4	0.67
(1,1870)	1:210:A:ILE:H	1:210:A:ILE:HD13	19	0.67
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	20	0.67
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	11	0.67
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	16	0.67
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	16	0.67
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	16	0.67
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	16	0.67
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB2	10	0.67
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB3	10	0.67
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB2	10	0.67
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB3	10	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1803)	1:202:A:GLU:HB2	1:248:A:ASP:H	18	0.67
(1,1803)	1:202:A:GLU:HB3	1:248:A:ASP:H	18	0.67
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	1	0.67
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	3	0.67
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	12	0.67
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	10	0.67
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	19	0.67
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	3	0.67
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	6	0.67
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	2	0.67
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	17	0.67
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	15	0.67
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	13	0.67
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	13	0.67
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	10	0.67
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	10	0.67
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	10	0.67
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	10	0.67
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	6	0.67
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	2	0.67
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	20	0.67
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	16	0.67
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	15	0.67
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	15	0.67
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	8	0.67
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	3	0.67
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	3	0.67
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	17	0.67
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	15	0.67
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	7	0.67
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	7	0.67
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	7	0.67
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	5	0.67
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	20	0.67
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	18	0.67
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	1	0.67
(1,985)	1:114:A:ALA:HB3	1:115:A:THR:HA	14	0.67
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	8	0.67
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	9	0.67
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	9	0.67
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	7	0.67
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	7	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	16	0.67
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	9	0.67
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	9	0.67
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	3	0.67
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	3	0.67
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	3	0.67
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	9	0.67
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	9	0.67
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	9	0.67
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	9	0.67
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	19	0.67
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	18	0.67
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	18	0.67
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	15	0.67
(1,474)	1:57:A:SER:HB2	1:69:A:LYS:HA	17	0.67
(1,474)	1:57:A:SER:HB3	1:69:A:LYS:HA	17	0.67
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	3	0.67
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	3	0.67
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB2	8	0.67
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB3	8	0.67
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	3	0.67
(1,292)	1:30:A:GLU:HB2	1:58:A:VAL:HG23	3	0.67
(1,292)	1:30:A:GLU:HB3	1:58:A:VAL:HG23	3	0.67
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	11	0.67
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	12	0.67
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	4	0.67
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	4	0.67
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	18	0.67
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	14	0.67
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	14	0.67
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	4	0.67
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	4	0.67
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB2	1	0.67
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB3	1	0.67
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	3	0.67
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	3	0.67
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	8	0.67
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	8	0.67
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	10	0.67
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	10	0.67
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	13	0.67
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	13	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	18	0.67
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	13	0.67
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	13	0.67
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	12	0.66
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	4	0.66
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	15	0.66
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	15	0.66
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	15	0.66
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	15	0.66
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	14	0.66
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	14	0.66
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	14	0.66
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	14	0.66
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	15	0.66
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	6	0.66
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	15	0.66
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	9	0.66
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	20	0.66
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	10	0.66
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	6	0.66
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	7	0.66
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	18	0.66
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	20	0.66
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	19	0.66
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	19	0.66
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	19	0.66
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	19	0.66
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	17	0.66
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	18	0.66
(1,1688)	1:193:A:LYS:HB2	1:198:A:VAL:HG23	16	0.66
(1,1688)	1:193:A:LYS:HB3	1:198:A:VAL:HG23	16	0.66
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	8	0.66
(1,1608)	1:188:A:LEU:HB2	1:192:A:LEU:H	16	0.66
(1,1608)	1:188:A:LEU:HB3	1:192:A:LEU:H	16	0.66
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	15	0.66
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	16	0.66
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	16	0.66
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	12	0.66
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	12	0.66
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	18	0.66
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	18	0.66
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	8	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	4	0.66
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	4	0.66
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	4	0.66
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA2	5	0.66
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA3	5	0.66
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	9	0.66
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	9	0.66
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	10	0.66
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	4	0.66
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	4	0.66
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	12	0.66
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	12	0.66
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	19	0.66
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	19	0.66
(1,1316)	1:160:A:ILE:H	1:161:A:LYS:HG2	6	0.66
(1,1316)	1:160:A:ILE:H	1:161:A:LYS:HG3	6	0.66
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	9	0.66
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	9	0.66
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	9	0.66
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	9	0.66
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	7	0.66
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB2	20	0.66
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB3	20	0.66
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	20	0.66
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	17	0.66
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	18	0.66
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	6	0.66
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	6	0.66
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	7	0.66
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	12	0.66
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	7	0.66
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG13	10	0.66
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG23	10	0.66
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	9	0.66
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	9	0.66
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	4	0.66
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	5	0.66
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	6	0.66
(1,768)	1:82:A:GLN:HB2	1:83:A:THR:HG23	7	0.66
(1,768)	1:82:A:GLN:HB3	1:83:A:THR:HG23	7	0.66
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	7	0.66
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	7	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	12	0.66
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	20	0.66
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	19	0.66
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	20	0.66
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	10	0.66
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	11	0.66
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	11	0.66
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	3	0.66
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB2	5	0.66
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB3	5	0.66
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	15	0.66
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	15	0.66
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	17	0.66
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	16	0.66
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	16	0.66
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	15	0.66
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	15	0.66
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	15	0.66
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	15	0.66
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	17	0.66
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	9	0.66
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	14	0.66
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	9	0.66
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	8	0.66
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	8	0.66
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	16	0.66
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	16	0.66
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	19	0.66
(1,105)	1:18:A:ALA:H	1:34:A:TYR:HA	11	0.66
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	1	0.66
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	2	0.66
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	15	0.66
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	1	0.66
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	1	0.66
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	8	0.66
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	8	0.66
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	8	0.66
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	8	0.66
(1,22)	1:9:A:THR:HA	1:9:A:THR:HG23	2	0.66
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	5	0.65
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	6	0.65
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	9	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	9	0.65
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	17	0.65
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	17	0.65
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	16	0.65
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	9	0.65
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	11	0.65
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	11	0.65
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG2	17	0.65
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG3	17	0.65
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	6	0.65
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	17	0.65
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	11	0.65
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	20	0.65
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	14	0.65
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	17	0.65
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	2	0.65
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	2	0.65
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	2	0.65
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	16	0.65
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	15	0.65
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	13	0.65
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	13	0.65
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	13	0.65
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	13	0.65
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	5	0.65
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	10	0.65
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	18	0.65
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	3	0.65
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	3	0.65
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	5	0.65
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	20	0.65
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	20	0.65
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	13	0.65
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG2	19	0.65
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG3	19	0.65
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	2	0.65
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	2	0.65
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	4	0.65
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	12	0.65
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG2	3	0.65
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG3	3	0.65
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	11	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	16	0.65
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	4	0.65
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	14	0.65
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	20	0.65
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	20	0.65
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	12	0.65
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	12	0.65
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	12	0.65
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	19	0.65
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	19	0.65
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	1	0.65
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	12	0.65
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	12	0.65
(1,1415)	1:171:A:ARG:HA	1:172:A:ALA:H	7	0.65
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	14	0.65
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	14	0.65
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	9	0.65
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	5	0.65
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	5	0.65
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	5	0.65
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	5	0.65
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	19	0.65
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	2	0.65
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB2	11	0.65
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB3	11	0.65
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	17	0.65
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	17	0.65
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	15	0.65
(1,1055)	1:124:A:PRO:HA	1:125:A:GLU:H	19	0.65
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	18	0.65
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	1	0.65
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	20	0.65
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	8	0.65
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG2	20	0.65
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG3	20	0.65
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG2	20	0.65
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG3	20	0.65
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	20	0.65
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	20	0.65
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	6	0.65
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG2	11	0.65
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG3	11	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD2	11	0.65
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD3	11	0.65
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	11	0.65
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	11	0.65
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	16	0.65
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB2	4	0.65
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB3	4	0.65
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB2	4	0.65
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB3	4	0.65
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	2	0.65
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	2	0.65
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	6	0.65
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	2	0.65
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	2	0.65
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	19	0.65
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	14	0.65
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	15	0.65
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	15	0.65
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	5	0.65
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	10	0.65
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	10	0.65
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	10	0.65
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	10	0.65
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	6	0.65
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	6	0.65
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	10	0.65
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	10	0.65
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	1	0.65
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	1	0.65
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	7	0.65
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	7	0.65
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	11	0.65
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	11	0.65
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	5	0.65
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	5	0.65
(1,385)	1:45:A:VAL:HA	1:45:A:VAL:HG23	10	0.65
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	16	0.65
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	2	0.65
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	12	0.65
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	12	0.65
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	17	0.65
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	17	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	5	0.65
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	17	0.65
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	1	0.65
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	8	0.65
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	16	0.65
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	3	0.65
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	3	0.65
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	13	0.65
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	14	0.65
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	14	0.65
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	1	0.65
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	1	0.65
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	1	0.65
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	1	0.65
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	10	0.65
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	10	0.65
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	9	0.65
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	9	0.65
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	2	0.64
(2,67)	1:220:A:ARG:O	1:224:A:GLU:H	18	0.64
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	18	0.64
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	5	0.64
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	2	0.64
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	7	0.64
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	7	0.64
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	7	0.64
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	5	0.64
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	5	0.64
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	2	0.64
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	3	0.64
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	7	0.64
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	14	0.64
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	18	0.64
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	20	0.64
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	20	0.64
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	19	0.64
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	10	0.64
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	3	0.64
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	20	0.64
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	13	0.64
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	4	0.64
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	7	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	7	0.64
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	12	0.64
(1,1798)	1:202:A:GLU:HA	1:248:A:ASP:H	5	0.64
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	17	0.64
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	20	0.64
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	7	0.64
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	20	0.64
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	15	0.64
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	15	0.64
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	15	0.64
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	15	0.64
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	7	0.64
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	7	0.64
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG2	2	0.64
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG3	2	0.64
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG2	2	0.64
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG3	2	0.64
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	3	0.64
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	14	0.64
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	15	0.64
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	1	0.64
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	18	0.64
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	18	0.64
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	20	0.64
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	20	0.64
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	4	0.64
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	4	0.64
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	15	0.64
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	9	0.64
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	9	0.64
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	20	0.64
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	17	0.64
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	17	0.64
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	5	0.64
(1,1154)	1:136:A:GLU:HB2	1:139:A:MET:HB2	15	0.64
(1,1154)	1:136:A:GLU:HB2	1:139:A:MET:HB3	15	0.64
(1,1154)	1:136:A:GLU:HB3	1:139:A:MET:HB2	15	0.64
(1,1154)	1:136:A:GLU:HB3	1:139:A:MET:HB3	15	0.64
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	6	0.64
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	18	0.64
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	11	0.64
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	11	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	11	0.64
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	11	0.64
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	18	0.64
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	6	0.64
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	5	0.64
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	18	0.64
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	19	0.64
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	4	0.64
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	8	0.64
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	8	0.64
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	9	0.64
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	9	0.64
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	4	0.64
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	4	0.64
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	2	0.64
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	2	0.64
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	19	0.64
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	19	0.64
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	19	0.64
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	19	0.64
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	10	0.64
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	10	0.64
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	6	0.64
(1,745)	1:80:A:ASP:H	1:81:A:ASP:H	11	0.64
(1,695)	1:74:A:ILE:HG12	1:80:A:ASP:HA	2	0.64
(1,695)	1:74:A:ILE:HG12	1:80:A:ASP:HA	19	0.64
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	8	0.64
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	1	0.64
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	9	0.64
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	4	0.64
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	19	0.64
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	1	0.64
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	1	0.64
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	1	0.64
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	1	0.64
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	20	0.64
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	20	0.64
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	20	0.64
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	20	0.64
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	20	0.64
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	9	0.64
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	15	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	17	0.64
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	17	0.64
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	10	0.64
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	19	0.64
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	10	0.64
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	10	0.64
(1,349)	1:39:A:VAL:H	1:39:A:VAL:HB	18	0.64
(1,347)	1:38:A:VAL:HG23	1:95:A:VAL:HB	13	0.64
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	4	0.64
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	7	0.64
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	13	0.64
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	15	0.64
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	2	0.64
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	2	0.64
(1,245)	1:25:A:ALA:HB3	1:26:A:GLY:H	9	0.64
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	11	0.64
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	11	0.64
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	11	0.64
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	11	0.64
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	5	0.64
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	8	0.64
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	2	0.64
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	3	0.64
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	3	0.64
(1,31)	1:12:A:ILE:H	1:12:A:ILE:HB	18	0.64
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	10	0.64
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	10	0.64
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	17	0.63
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	3	0.63
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	2	0.63
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	8	0.63
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	18	0.63
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	18	0.63
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	13	0.63
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	13	0.63
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	7	0.63
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	7	0.63
(1,1976)	1:225:A:LEU:HG	1:226:A:ILE:HG12	15	0.63
(1,1976)	1:225:A:LEU:HG	1:226:A:ILE:HG13	15	0.63
(1,1970)	1:225:A:LEU:HA	1:229:A:GLU:HB2	19	0.63
(1,1970)	1:225:A:LEU:HA	1:229:A:GLU:HB3	19	0.63
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	2	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	13	0.63
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	6	0.63
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	4	0.63
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	4	0.63
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	4	0.63
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	4	0.63
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	9	0.63
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	6	0.63
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	10	0.63
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	14	0.63
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	2	0.63
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	2	0.63
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	18	0.63
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	18	0.63
(1,1639)	1:189:A:LYS:HG2	1:193:A:LYS:HD2	1	0.63
(1,1639)	1:189:A:LYS:HG2	1:193:A:LYS:HD3	1	0.63
(1,1639)	1:189:A:LYS:HG3	1:193:A:LYS:HD2	1	0.63
(1,1639)	1:189:A:LYS:HG3	1:193:A:LYS:HD3	1	0.63
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	13	0.63
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	13	0.63
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	13	0.63
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	13	0.63
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	18	0.63
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	18	0.63
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	18	0.63
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	18	0.63
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG2	3	0.63
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG3	3	0.63
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG2	3	0.63
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG3	3	0.63
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	10	0.63
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	19	0.63
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD2	11	0.63
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD3	11	0.63
(1,1538)	1:182:A:VAL:HA	1:205:A:GLY:H	16	0.63
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	20	0.63
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	20	0.63
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	17	0.63
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	3	0.63
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	2	0.63
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	7	0.63
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	7	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	9	0.63
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	9	0.63
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	16	0.63
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	16	0.63
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	16	0.63
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	16	0.63
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	7	0.63
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	8	0.63
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	16	0.63
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	2	0.63
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	14	0.63
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	5	0.63
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	5	0.63
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	5	0.63
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	15	0.63
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	8	0.63
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	8	0.63
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	2	0.63
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB2	3	0.63
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB3	3	0.63
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB2	17	0.63
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB3	17	0.63
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	15	0.63
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	15	0.63
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	15	0.63
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	15	0.63
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	10	0.63
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	13	0.63
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	13	0.63
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	13	0.63
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	15	0.63
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	20	0.63
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	2	0.63
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	2	0.63
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	20	0.63
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	7	0.63
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	6	0.63
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	6	0.63
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	14	0.63
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	14	0.63
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	5	0.63
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	1	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,731)	1:77:A:PHE:HE1	1:85:A:ILE:H	20	0.63
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	14	0.63
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	16	0.63
(1,710)	1:75:A:SER:H	1:79:A:THR:H	4	0.63
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	7	0.63
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	4	0.63
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	4	0.63
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	4	0.63
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	4	0.63
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	13	0.63
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	10	0.63
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	10	0.63
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	15	0.63
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	15	0.63
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	20	0.63
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	7	0.63
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	13	0.63
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	9	0.63
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	9	0.63
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	7	0.63
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	10	0.63
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	7	0.63
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	7	0.63
(1,385)	1:45:A:VAL:HA	1:45:A:VAL:HG23	4	0.63
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	8	0.63
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	11	0.63
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	11	0.63
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB2	10	0.63
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB3	10	0.63
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	18	0.63
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	18	0.63
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	19	0.63
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	19	0.63
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	10	0.63
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	11	0.63
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	15	0.63
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	14	0.63
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	16	0.63
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	2	0.63
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	2	0.63
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	5	0.63
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	5	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	15	0.63
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	9	0.63
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	16	0.63
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	14	0.63
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	14	0.63
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	8	0.63
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	8	0.63
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	4	0.63
(1,79)	1:14:A:LEU:HA	1:17:A:VAL:HB	20	0.63
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	14	0.63
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	5	0.63
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	5	0.63
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	5	0.63
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	5	0.63
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	1	0.63
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	2	0.63
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	2	0.63
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	7	0.63
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	7	0.63
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	13	0.62
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	8	0.62
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	17	0.62
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	3	0.62
(1,2175)	1:245:A:GLU:HA	1:246:A:GLU:H	10	0.62
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	5	0.62
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	16	0.62
(1,2065)	1:229:A:GLU:HB2	1:230:A:THR:HG23	15	0.62
(1,2065)	1:229:A:GLU:HB3	1:230:A:THR:HG23	15	0.62
(1,2014)	1:226:A:ILE:HG23	1:230:A:THR:HG23	15	0.62
(1,2011)	1:226:A:ILE:HG23	1:227:A:LYS:HA	11	0.62
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	19	0.62
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	6	0.62
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	13	0.62
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	18	0.62
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	17	0.62
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	16	0.62
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	3	0.62
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	20	0.62
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	13	0.62
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	1	0.62
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	4	0.62
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	9	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	10	0.62
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	9	0.62
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	7	0.62
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	4	0.62
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	10	0.62
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	10	0.62
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	17	0.62
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	7	0.62
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	20	0.62
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	20	0.62
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG2	17	0.62
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG3	17	0.62
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG2	17	0.62
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG3	17	0.62
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	10	0.62
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	13	0.62
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	13	0.62
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	20	0.62
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	20	0.62
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	2	0.62
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	2	0.62
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	2	0.62
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	2	0.62
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	13	0.62
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	20	0.62
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	4	0.62
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	15	0.62
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	15	0.62
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	3	0.62
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	4	0.62
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	3	0.62
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	5	0.62
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	5	0.62
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	12	0.62
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	4	0.62
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	4	0.62
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	11	0.62
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB2	3	0.62
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB3	3	0.62
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	5	0.62
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	7	0.62
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	7	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	8	0.62
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	7	0.62
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	7	0.62
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	7	0.62
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	7	0.62
(1,841)	1:87:A:LYS:HE2	1:88:A:GLN:HA	13	0.62
(1,841)	1:87:A:LYS:HE3	1:88:A:GLN:HA	13	0.62
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	12	0.62
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	12	0.62
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	12	0.62
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	11	0.62
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	13	0.62
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	13	0.62
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	5	0.62
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	5	0.62
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	19	0.62
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	19	0.62
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	19	0.62
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	13	0.62
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	16	0.62
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	20	0.62
(1,501)	1:59:A:PHE:HB2	1:61:A:ASN:H	19	0.62
(1,501)	1:59:A:PHE:HB3	1:61:A:ASN:H	19	0.62
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	10	0.62
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	9	0.62
(1,386)	1:45:A:VAL:HA	1:46:A:GLU:H	1	0.62
(1,358)	1:41:A:TRP:H	1:44:A:GLY:H	11	0.62
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	12	0.62
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	12	0.62
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	16	0.62
(1,235)	1:24:A:ARG:H	1:26:A:GLY:H	6	0.62
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	3	0.62
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	3	0.62
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	3	0.62
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	3	0.62
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD2	8	0.62
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD3	8	0.62
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	3	0.62
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	3	0.62
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	19	0.62
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	10	0.62
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	1	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	1	0.62
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	4	0.62
(1,113)	1:18:A:ALA:HB3	1:33:A:CYS:H	10	0.62
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	9	0.62
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	10	0.62
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	10	0.62
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	10	0.62
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	10	0.62
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	17	0.62
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	3	0.62
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	3	0.62
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	3	0.61
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	7	0.61
(1,2213)	1:250:A:LYS:HA	1:250:A:LYS:HE2	13	0.61
(1,2213)	1:250:A:LYS:HA	1:250:A:LYS:HE3	13	0.61
(1,2208)	1:249:A:GLU:HG2	1:250:A:LYS:H	7	0.61
(1,2208)	1:249:A:GLU:HG3	1:250:A:LYS:H	7	0.61
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	14	0.61
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	14	0.61
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	7	0.61
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	7	0.61
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	8	0.61
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	8	0.61
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	19	0.61
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	19	0.61
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	5	0.61
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	18	0.61
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	13	0.61
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	13	0.61
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	4	0.61
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	18	0.61
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	12	0.61
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	19	0.61
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	9	0.61
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	9	0.61
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	2	0.61
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	11	0.61
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	11	0.61
(1,1701)	1:195:A:LEU:HA	1:195:A:LEU:HD13	20	0.61
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	4	0.61
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	2	0.61
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	18	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	5	0.61
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	5	0.61
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	7	0.61
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	5	0.61
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	5	0.61
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	20	0.61
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	3	0.61
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	19	0.61
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	19	0.61
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	5	0.61
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	5	0.61
(1,1478)	1:177:A:ARG:HB2	1:209:A:GLU:HG2	6	0.61
(1,1478)	1:177:A:ARG:HB2	1:209:A:GLU:HG3	6	0.61
(1,1478)	1:177:A:ARG:HB3	1:209:A:GLU:HG2	6	0.61
(1,1478)	1:177:A:ARG:HB3	1:209:A:GLU:HG3	6	0.61
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	10	0.61
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	14	0.61
(1,1426)	1:173:A:HIS:HB2	1:215:A:ASP:HA	18	0.61
(1,1426)	1:173:A:HIS:HB3	1:215:A:ASP:HA	18	0.61
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	5	0.61
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	5	0.61
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	19	0.61
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	16	0.61
(1,1313)	1:159:A:VAL:HG13	1:160:A:ILE:HB	6	0.61
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	12	0.61
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	12	0.61
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	3	0.61
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	10	0.61
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	9	0.61
(1,1198)	1:140:A:LYS:H	1:143:A:HIS:H	4	0.61
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	20	0.61
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	20	0.61
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	20	0.61
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	20	0.61
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	9	0.61
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	2	0.61
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	19	0.61
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	14	0.61
(1,1053)	1:122:A:VAL:HG23	1:123:A:ASN:H	18	0.61
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB2	2	0.61
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB3	2	0.61
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	1	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	1	0.61
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	3	0.61
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	14	0.61
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	1	0.61
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	1	0.61
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	8	0.61
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	17	0.61
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	13	0.61
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	16	0.61
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	14	0.61
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	9	0.61
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	9	0.61
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	18	0.61
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	13	0.61
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	10	0.61
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	10	0.61
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	6	0.61
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	15	0.61
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	15	0.61
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	16	0.61
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	16	0.61
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	11	0.61
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	5	0.61
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	5	0.61
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	17	0.61
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	8	0.61
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	8	0.61
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	17	0.61
(1,534)	1:61:A:ASN:HB2	1:64:A:LYS:HG2	12	0.61
(1,534)	1:61:A:ASN:HB2	1:64:A:LYS:HG3	12	0.61
(1,534)	1:61:A:ASN:HB3	1:64:A:LYS:HG2	12	0.61
(1,534)	1:61:A:ASN:HB3	1:64:A:LYS:HG3	12	0.61
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	11	0.61
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	16	0.61
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	9	0.61
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	6	0.61
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	10	0.61
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	6	0.61
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	3	0.61
(1,368)	1:43:A:SER:H	1:43:A:SER:HB2	16	0.61
(1,368)	1:43:A:SER:H	1:43:A:SER:HB3	16	0.61
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	17	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	17	0.61
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	6	0.61
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD2	18	0.61
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD3	18	0.61
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD2	18	0.61
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD3	18	0.61
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	9	0.61
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	9	0.61
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	10	0.61
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	10	0.61
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB2	20	0.61
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB3	20	0.61
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	1	0.61
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	1	0.61
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	4	0.61
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	4	0.61
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	4	0.61
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	5	0.61
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	5	0.61
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	11	0.61
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	11	0.61
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	14	0.61
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	20	0.61
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	20	0.61
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	2	0.61
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	2	0.61
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	2	0.61
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	1	0.6
(2,29)	1:84:A:GLU:O	1:88:A:GLN:H	11	0.6
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	8	0.6
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	11	0.6
(1,2191)	1:247:A:GLY:HA2	1:249:A:GLU:H	18	0.6
(1,2191)	1:247:A:GLY:HA3	1:249:A:GLU:H	18	0.6
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	9	0.6
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	6	0.6
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	6	0.6
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	7	0.6
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	1	0.6
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	1	0.6
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	1	0.6
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB2	8	0.6
(1,1981)	1:225:A:LEU:HD13	1:229:A:GLU:HB3	8	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	10	0.6
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	6	0.6
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	5	0.6
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	18	0.6
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	16	0.6
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	3	0.6
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	8	0.6
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	14	0.6
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	17	0.6
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	10	0.6
(1,1667)	1:191:A:LYS:HE2	1:225:A:LEU:HD13	13	0.6
(1,1667)	1:191:A:LYS:HE3	1:225:A:LEU:HD13	13	0.6
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	13	0.6
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	13	0.6
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	13	0.6
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	1	0.6
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	3	0.6
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	17	0.6
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	17	0.6
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	11	0.6
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	11	0.6
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	6	0.6
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	1	0.6
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	1	0.6
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	7	0.6
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	7	0.6
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	7	0.6
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	7	0.6
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	10	0.6
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	17	0.6
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	19	0.6
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	3	0.6
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	18	0.6
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	16	0.6
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	2	0.6
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	19	0.6
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	13	0.6
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	4	0.6
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	9	0.6
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	9	0.6
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	6	0.6
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	6	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB2	6	0.6
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB3	6	0.6
(1,931)	1:95:A:VAL:H	1:97:A:VAL:H	2	0.6
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	5	0.6
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	1	0.6
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	1	0.6
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	17	0.6
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	2	0.6
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	2	0.6
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB2	17	0.6
(1,778)	1:83:A:THR:HG23	1:84:A:GLU:HB3	17	0.6
(1,767)	1:82:A:GLN:HB2	1:83:A:THR:H	10	0.6
(1,767)	1:82:A:GLN:HB3	1:83:A:THR:H	10	0.6
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	5	0.6
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	11	0.6
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	16	0.6
(1,703)	1:74:A:ILE:HD13	1:79:A:THR:HA	5	0.6
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	15	0.6
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	15	0.6
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	20	0.6
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	20	0.6
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	20	0.6
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	20	0.6
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG2	8	0.6
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG3	8	0.6
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG2	8	0.6
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG3	8	0.6
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	12	0.6
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	12	0.6
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	9	0.6
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	16	0.6
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	6	0.6
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	8	0.6
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB2	1	0.6
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB3	1	0.6
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	2	0.6
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	8	0.6
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	8	0.6
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	5	0.6
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	9	0.6
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	18	0.6
(1,306)	1:31:A:ILE:HG23	1:58:A:VAL:HB	5	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:31:A:ILE:HG23	1:58:A:VAL:HB	10	0.6
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	19	0.6
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	19	0.6
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	19	0.6
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	19	0.6
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	14	0.6
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	18	0.6
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	10	0.6
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	10	0.6
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	7	0.6
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	7	0.6
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	8	0.6
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	16	0.6
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	16	0.6
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	12	0.6
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	8	0.6
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	8	0.6
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	12	0.59
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	2	0.59
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	5	0.59
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	19	0.59
(1,2158)	1:243:A:ASP:HB3	1:244:A:VAL:H	6	0.59
(1,2158)	1:243:A:ASP:HB2	1:244:A:VAL:H	6	0.59
(1,2158)	1:243:A:ASP:HB3	1:244:A:VAL:H	6	0.59
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	3	0.59
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	5	0.59
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	7	0.59
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	9	0.59
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	10	0.59
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	15	0.59
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	15	0.59
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	8	0.59
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	8	0.59
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	5	0.59
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	5	0.59
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	1	0.59
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	11	0.59
(1,1893)	1:216:A:PRO:HA	1:219:A:PHE:H	18	0.59
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	4	0.59
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	5	0.59
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	7	0.59
(1,1835)	1:204:A:TYR:H	1:209:A:GLU:H	11	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	3	0.59
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	3	0.59
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	18	0.59
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	18	0.59
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	18	0.59
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	18	0.59
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	1	0.59
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	2	0.59
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	2	0.59
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	6	0.59
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	16	0.59
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	12	0.59
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	12	0.59
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	1	0.59
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	13	0.59
(1,1711)	1:196:A:ILE:HA	1:198:A:VAL:HG23	2	0.59
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG2	15	0.59
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG3	15	0.59
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	1	0.59
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	1	0.59
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	17	0.59
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	1	0.59
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	7	0.59
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	19	0.59
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	16	0.59
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	5	0.59
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	7	0.59
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	12	0.59
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	20	0.59
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	20	0.59
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	18	0.59
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	16	0.59
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	16	0.59
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	16	0.59
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	16	0.59
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	3	0.59
(1,1459)	1:176:A:LEU:HG	1:177:A:ARG:H	20	0.59
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	15	0.59
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	15	0.59
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	1	0.59
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	1	0.59
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	19	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	17	0.59
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	17	0.59
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	4	0.59
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	9	0.59
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	9	0.59
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	17	0.59
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	4	0.59
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	2	0.59
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	15	0.59
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	19	0.59
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	3	0.59
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	5	0.59
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	5	0.59
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	12	0.59
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	6	0.59
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	10	0.59
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	10	0.59
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	10	0.59
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	10	0.59
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	11	0.59
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	11	0.59
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	2	0.59
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	2	0.59
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	2	0.59
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	2	0.59
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	15	0.59
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	15	0.59
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	15	0.59
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	15	0.59
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG13	4	0.59
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG23	4	0.59
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	20	0.59
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	19	0.59
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	2	0.59
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	8	0.59
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB2	6	0.59
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB3	6	0.59
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB2	16	0.59
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB3	16	0.59
(1,767)	1:82:A:GLN:HB2	1:83:A:THR:H	6	0.59
(1,767)	1:82:A:GLN:HB3	1:83:A:THR:H	6	0.59
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	13	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,738)	1:79:A:THR:HA	1:81:A:ASP:H	19	0.59
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	18	0.59
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	12	0.59
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	16	0.59
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	4	0.59
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	8	0.59
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	20	0.59
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	20	0.59
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	5	0.59
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	18	0.59
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	11	0.59
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	10	0.59
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	13	0.59
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	17	0.59
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	18	0.59
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	19	0.59
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	20	0.59
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	12	0.59
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	3	0.59
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	3	0.59
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	16	0.59
(1,399)	1:47:A:LYS:HG2	1:48:A:ASP:H	16	0.59
(1,399)	1:47:A:LYS:HG3	1:48:A:ASP:H	16	0.59
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	11	0.59
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	11	0.59
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	7	0.59
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	1	0.59
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	11	0.59
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	11	0.59
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	11	0.59
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	11	0.59
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	2	0.59
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	17	0.59
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	19	0.59
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	19	0.59
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	19	0.59
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	19	0.59
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	8	0.59
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	8	0.59
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	8	0.59
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	8	0.59
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	1	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	1	0.59
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	20	0.59
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	20	0.59
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	8	0.59
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	8	0.59
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	8	0.59
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	8	0.59
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	6	0.59
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	5	0.59
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	14	0.59
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	1	0.59
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	14	0.59
(1,99)	1:17:A:VAL:HG23	1:18:A:ALA:H	20	0.59
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	18	0.59
(1,70)	1:13:A:ARG:HB2	1:15:A:THR:HG23	12	0.59
(1,70)	1:13:A:ARG:HB3	1:15:A:THR:HG23	12	0.59
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	8	0.59
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	6	0.59
(1,10)	1:7:A:THR:HA	1:15:A:THR:HB	12	0.59
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	7	0.59
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	6	0.58
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	11	0.58
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	5	0.58
(1,2197)	1:248:A:ASP:HA	1:249:A:GLU:H	19	0.58
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	8	0.58
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	8	0.58
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	9	0.58
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	9	0.58
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	12	0.58
(1,2025)	1:227:A:LYS:H	1:231:A:LYS:H	4	0.58
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	4	0.58
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	20	0.58
(1,1922)	1:221:A:GLU:HB2	1:222:A:ILE:H	19	0.58
(1,1922)	1:221:A:GLU:HB3	1:222:A:ILE:H	19	0.58
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	10	0.58
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	10	0.58
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	5	0.58
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	19	0.58
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	19	0.58
(1,1885)	1:212:A:CYS:HA	1:213:A:LEU:H	8	0.58
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	20	0.58
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	13	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	16	0.58
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	5	0.58
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	14	0.58
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	14	0.58
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	14	0.58
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	14	0.58
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG2	8	0.58
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG3	8	0.58
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG2	8	0.58
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG3	8	0.58
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	18	0.58
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	20	0.58
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	13	0.58
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	15	0.58
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	15	0.58
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	15	0.58
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	15	0.58
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	15	0.58
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	15	0.58
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	7	0.58
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	20	0.58
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	20	0.58
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	16	0.58
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	16	0.58
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	13	0.58
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	9	0.58
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	20	0.58
(1,1349)	1:162:A:GLN:HG2	1:163:A:LEU:HA	20	0.58
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	20	0.58
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	14	0.58
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	14	0.58
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	11	0.58
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	11	0.58
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	8	0.58
(1,1241)	1:152:A:THR:HA	1:156:A:ALA:H	6	0.58
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	18	0.58
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	7	0.58
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	9	0.58
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	11	0.58
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	13	0.58
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	19	0.58
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	19	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	8	0.58
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	1	0.58
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	12	0.58
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	10	0.58
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	6	0.58
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	6	0.58
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	16	0.58
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	16	0.58
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	18	0.58
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	3	0.58
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	3	0.58
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	3	0.58
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	3	0.58
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	3	0.58
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	3	0.58
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	5	0.58
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	5	0.58
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	7	0.58
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	7	0.58
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB2	17	0.58
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB3	17	0.58
(1,767)	1:82:A:GLN:HB2	1:83:A:THR:H	9	0.58
(1,767)	1:82:A:GLN:HB3	1:83:A:THR:H	9	0.58
(1,743)	1:79:A:THR:HG23	1:84:A:GLU:HB2	7	0.58
(1,743)	1:79:A:THR:HG23	1:84:A:GLU:HB3	7	0.58
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	2	0.58
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	14	0.58
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	8	0.58
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	8	0.58
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	8	0.58
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	8	0.58
(1,601)	1:69:A:LYS:HG2	1:70:A:LYS:H	15	0.58
(1,601)	1:69:A:LYS:HG3	1:70:A:LYS:H	15	0.58
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	3	0.58
(1,545)	1:63:A:SER:H	1:64:A:LYS:H	17	0.58
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	18	0.58
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	6	0.58
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	10	0.58
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	6	0.58
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	10	0.58
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	19	0.58
(1,452)	1:53:A:LEU:HD13	1:56:A:HIS:HA	4	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,452)	1:53:A:LEU:HD23	1:56:A:HIS:HA	4	0.58
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	1	0.58
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	1	0.58
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	7	0.58
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	7	0.58
(1,368)	1:43:A:SER:H	1:43:A:SER:HB2	20	0.58
(1,368)	1:43:A:SER:H	1:43:A:SER:HB3	20	0.58
(1,337)	1:38:A:VAL:HB	1:90:A:LEU:HD13	15	0.58
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	3	0.58
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB2	10	0.58
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB3	10	0.58
(1,331)	1:34:A:TYR:H	1:53:A:LEU:HA	10	0.58
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	5	0.58
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	1	0.58
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	1	0.58
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	16	0.58
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	6	0.58
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	6	0.58
(1,196)	1:22:A:MET:HA	1:29:A:PHE:H	8	0.58
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	10	0.58
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	10	0.58
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	10	0.58
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	10	0.58
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	4	0.58
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	4	0.58
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	11	0.58
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	11	0.58
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	11	0.58
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	11	0.58
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	7	0.58
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	11	0.58
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	11	0.58
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	15	0.58
(1,86)	1:15:A:THR:H	1:15:A:THR:HG23	8	0.58
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	4	0.58
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	4	0.58
(1,24)	1:9:A:THR:HB	1:9:A:THR:HG23	7	0.58
(1,24)	1:9:A:THR:HB	1:9:A:THR:HG23	11	0.58
(1,24)	1:9:A:THR:HB	1:9:A:THR:HG23	15	0.58
(1,24)	1:9:A:THR:HB	1:9:A:THR:HG23	19	0.58
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	4	0.58
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	20	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	2	0.57
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	2	0.57
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	2	0.57
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	2	0.57
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	1	0.57
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	10	0.57
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	15	0.57
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	14	0.57
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	20	0.57
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	7	0.57
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	17	0.57
(1,2016)	1:226:A:ILE:HG23	1:231:A:LYS:HA	18	0.57
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	16	0.57
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	4	0.57
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	4	0.57
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	7	0.57
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	7	0.57
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	10	0.57
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	10	0.57
(1,1920)	1:221:A:GLU:HA	1:224:A:GLU:HB2	18	0.57
(1,1920)	1:221:A:GLU:HA	1:224:A:GLU:HB3	18	0.57
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	1	0.57
(1,1857)	1:208:A:LEU:H	1:208:A:LEU:HD13	4	0.57
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	2	0.57
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	11	0.57
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	11	0.57
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	11	0.57
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	11	0.57
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	20	0.57
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	20	0.57
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	15	0.57
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	10	0.57
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	8	0.57
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	14	0.57
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	13	0.57
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	15	0.57
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	15	0.57
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	8	0.57
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	2	0.57
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	12	0.57
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	12	0.57
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	10	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	10	0.57
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	14	0.57
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	17	0.57
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	15	0.57
(1,1640)	1:189:A:LYS:HG2	1:193:A:LYS:HE2	12	0.57
(1,1640)	1:189:A:LYS:HG2	1:193:A:LYS:HE3	12	0.57
(1,1640)	1:189:A:LYS:HG3	1:193:A:LYS:HE2	12	0.57
(1,1640)	1:189:A:LYS:HG3	1:193:A:LYS:HE3	12	0.57
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	17	0.57
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	14	0.57
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	13	0.57
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	3	0.57
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	13	0.57
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	13	0.57
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	13	0.57
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	13	0.57
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	15	0.57
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	15	0.57
(1,1441)	1:175:A:ARG:HG3	1:176:A:LEU:H	13	0.57
(1,1441)	1:175:A:ARG:HG2	1:176:A:LEU:H	13	0.57
(1,1441)	1:175:A:ARG:HG3	1:176:A:LEU:H	13	0.57
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	15	0.57
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	15	0.57
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	13	0.57
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	8	0.57
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	18	0.57
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	10	0.57
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	10	0.57
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	14	0.57
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	14	0.57
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	7	0.57
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	1	0.57
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	6	0.57
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	14	0.57
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	20	0.57
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	8	0.57
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD2	8	0.57
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD3	8	0.57
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD2	9	0.57
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD3	9	0.57
(1,1127)	1:133:A:ILE:HG23	1:134:A:LEU:HA	4	0.57
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	14	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	14	0.57
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	14	0.57
(1,1075)	1:129:A:PRO:HG2	1:130:A:TYR:HA	3	0.57
(1,1075)	1:129:A:PRO:HG3	1:130:A:TYR:HA	3	0.57
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	5	0.57
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	7	0.57
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	12	0.57
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	12	0.57
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	4	0.57
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	19	0.57
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	12	0.57
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG13	13	0.57
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG23	13	0.57
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	15	0.57
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	15	0.57
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	10	0.57
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	10	0.57
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	8	0.57
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	12	0.57
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	12	0.57
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	20	0.57
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	2	0.57
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	4	0.57
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	9	0.57
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	10	0.57
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	12	0.57
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	2	0.57
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	2	0.57
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	11	0.57
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	11	0.57
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	8	0.57
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	1	0.57
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	2	0.57
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	19	0.57
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	19	0.57
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	19	0.57
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	19	0.57
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	12	0.57
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	12	0.57
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	18	0.57
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	18	0.57
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	16	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	16	0.57
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	16	0.57
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	16	0.57
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	14	0.57
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	8	0.57
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	12	0.57
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	7	0.57
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	7	0.57
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	19	0.57
(1,474)	1:57:A:SER:HB2	1:69:A:LYS:HA	12	0.57
(1,474)	1:57:A:SER:HB3	1:69:A:LYS:HA	12	0.57
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	2	0.57
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	2	0.57
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	10	0.57
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	20	0.57
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	14	0.57
(1,291)	1:30:A:GLU:HB2	1:31:A:ILE:H	10	0.57
(1,291)	1:30:A:GLU:HB3	1:31:A:ILE:H	10	0.57
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	20	0.57
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	15	0.57
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	15	0.57
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	7	0.57
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	7	0.57
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	10	0.57
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	10	0.57
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	14	0.57
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	14	0.57
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	19	0.57
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	6	0.57
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	6	0.57
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	5	0.57
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	6	0.57
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	13	0.57
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	19	0.57
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	19	0.57
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	10	0.57
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	15	0.57
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	16	0.57
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	11	0.57
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	6	0.57
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	6	0.57
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	19	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,13)	1:7:A:THR:HB	1:15:A:THR:HB	8	0.57
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	8	0.57
(1,10)	1:7:A:THR:HA	1:15:A:THR:HB	2	0.57
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	3	0.56
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	16	0.56
(1,2199)	1:248:A:ASP:HA	1:249:A:GLU:HG2	19	0.56
(1,2199)	1:248:A:ASP:HA	1:249:A:GLU:HG3	19	0.56
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	11	0.56
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	4	0.56
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	4	0.56
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	19	0.56
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	5	0.56
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	5	0.56
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	8	0.56
(1,2070)	1:230:A:THR:H	1:231:A:LYS:H	4	0.56
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	8	0.56
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	7	0.56
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	7	0.56
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	6	0.56
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	6	0.56
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	20	0.56
(1,1885)	1:212:A:CYS:HA	1:213:A:LEU:H	12	0.56
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	6	0.56
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	8	0.56
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	18	0.56
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	16	0.56
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	11	0.56
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	13	0.56
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	8	0.56
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	8	0.56
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	8	0.56
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	8	0.56
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	7	0.56
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	18	0.56
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	13	0.56
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	13	0.56
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	16	0.56
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	6	0.56
(1,1731)	1:198:A:VAL:HG13	1:210:A:ILE:HG23	13	0.56
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	6	0.56
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	14	0.56
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	14	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	7	0.56
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	7	0.56
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	11	0.56
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	11	0.56
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	12	0.56
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	12	0.56
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	12	0.56
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	5	0.56
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	6	0.56
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	6	0.56
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	1	0.56
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	7	0.56
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	10	0.56
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	10	0.56
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	9	0.56
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	9	0.56
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	9	0.56
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	9	0.56
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	5	0.56
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	5	0.56
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	20	0.56
(1,1467)	1:177:A:ARG:H	1:211:A:VAL:HG13	8	0.56
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	6	0.56
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	6	0.56
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	6	0.56
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	15	0.56
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	14	0.56
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	14	0.56
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	18	0.56
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	18	0.56
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	10	0.56
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	10	0.56
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	10	0.56
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	10	0.56
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	10	0.56
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	7	0.56
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	7	0.56
(1,1076)	1:129:A:PRO:HG2	1:217:A:GLY:HA2	2	0.56
(1,1076)	1:129:A:PRO:HG2	1:217:A:GLY:HA3	2	0.56
(1,1076)	1:129:A:PRO:HG3	1:217:A:GLY:HA2	2	0.56
(1,1076)	1:129:A:PRO:HG3	1:217:A:GLY:HA3	2	0.56
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	13	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	19	0.56
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	10	0.56
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	8	0.56
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	1	0.56
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	5	0.56
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	12	0.56
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB2	16	0.56
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB3	16	0.56
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	15	0.56
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	2	0.56
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	12	0.56
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	20	0.56
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	20	0.56
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	20	0.56
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	20	0.56
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	4	0.56
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	4	0.56
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	12	0.56
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	12	0.56
(1,710)	1:75:A:SER:H	1:79:A:THR:H	18	0.56
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	18	0.56
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	15	0.56
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	1	0.56
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	6	0.56
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	11	0.56
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	11	0.56
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	1	0.56
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	1	0.56
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	18	0.56
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	18	0.56
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	7	0.56
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	12	0.56
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	12	0.56
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	14	0.56
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	18	0.56
(1,414)	1:49:A:LEU:HA	1:52:A:VAL:HA	1	0.56
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	5	0.56
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	5	0.56
(1,385)	1:45:A:VAL:HA	1:45:A:VAL:HG23	1	0.56
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	13	0.56
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	13	0.56
(1,316)	1:32:A:ALA:HB3	1:55:A:THR:H	1	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,316)	1:32:A:ALA:HB3	1:55:A:THR:H	13	0.56
(1,307)	1:31:A:ILE:HG23	1:59:A:PHE:H	11	0.56
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	5	0.56
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	6	0.56
(1,292)	1:30:A:GLU:HB2	1:58:A:VAL:HG23	9	0.56
(1,292)	1:30:A:GLU:HB3	1:58:A:VAL:HG23	9	0.56
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	18	0.56
(1,277)	1:29:A:PHE:HB2	1:58:A:VAL:HG13	2	0.56
(1,277)	1:29:A:PHE:HB3	1:58:A:VAL:HG13	2	0.56
(1,205)	1:22:A:MET:HB2	1:92:A:LYS:H	4	0.56
(1,205)	1:22:A:MET:HB3	1:92:A:LYS:H	4	0.56
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	5	0.56
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	3	0.56
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	13	0.56
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	11	0.56
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	14	0.56
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	14	0.56
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	19	0.56
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	18	0.56
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	18	0.56
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	11	0.56
(2,50)	1:159:A:VAL:O	1:163:A:LEU:H	7	0.55
(1,2223)	1:251:A:PHE:HB3	1:252:A:GLU:H	3	0.55
(1,2223)	1:251:A:PHE:HB2	1:252:A:GLU:H	3	0.55
(1,2223)	1:251:A:PHE:HB3	1:252:A:GLU:H	3	0.55
(1,2191)	1:247:A:GLY:HA2	1:249:A:GLU:H	11	0.55
(1,2191)	1:247:A:GLY:HA3	1:249:A:GLU:H	11	0.55
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	20	0.55
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	20	0.55
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	1	0.55
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	20	0.55
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	11	0.55
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	11	0.55
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	2	0.55
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	2	0.55
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	2	0.55
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	19	0.55
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	9	0.55
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	13	0.55
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	3	0.55
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	12	0.55
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	10	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	13	0.55
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	13	0.55
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	9	0.55
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	9	0.55
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	12	0.55
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	5	0.55
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	15	0.55
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	16	0.55
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	17	0.55
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	9	0.55
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	9	0.55
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	2	0.55
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	2	0.55
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	20	0.55
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	1	0.55
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	14	0.55
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	16	0.55
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	16	0.55
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	5	0.55
(1,1537)	1:182:A:VAL:HA	1:182:A:VAL:HG13	17	0.55
(1,1537)	1:182:A:VAL:HA	1:182:A:VAL:HG23	17	0.55
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	7	0.55
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	7	0.55
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	7	0.55
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	7	0.55
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	14	0.55
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	14	0.55
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	12	0.55
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	12	0.55
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	15	0.55
(1,1400)	1:169:A:ILE:H	1:170:A:GLU:HA	13	0.55
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	16	0.55
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	13	0.55
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	8	0.55
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	8	0.55
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	7	0.55
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	6	0.55
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	8	0.55
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	16	0.55
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	15	0.55
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD2	3	0.55
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD3	3	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	12	0.55
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	12	0.55
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	10	0.55
(1,1076)	1:129:A:PRO:HG2	1:217:A:GLY:HA2	20	0.55
(1,1076)	1:129:A:PRO:HG2	1:217:A:GLY:HA3	20	0.55
(1,1076)	1:129:A:PRO:HG3	1:217:A:GLY:HA2	20	0.55
(1,1076)	1:129:A:PRO:HG3	1:217:A:GLY:HA3	20	0.55
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	17	0.55
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	11	0.55
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	17	0.55
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	17	0.55
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG13	1	0.55
(1,947)	1:96:A:GLN:HA	1:97:A:VAL:HG23	1	0.55
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	20	0.55
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	20	0.55
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	18	0.55
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	18	0.55
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	9	0.55
(1,767)	1:82:A:GLN:HB2	1:83:A:THR:H	19	0.55
(1,767)	1:82:A:GLN:HB3	1:83:A:THR:H	19	0.55
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	8	0.55
(1,736)	1:79:A:THR:HA	1:79:A:THR:HG23	19	0.55
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	17	0.55
(1,710)	1:75:A:SER:H	1:79:A:THR:H	7	0.55
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	7	0.55
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	11	0.55
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	9	0.55
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	9	0.55
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	1	0.55
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	11	0.55
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	17	0.55
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	16	0.55
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	16	0.55
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	14	0.55
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	8	0.55
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	8	0.55
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	10	0.55
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	17	0.55
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	14	0.55
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	11	0.55
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	11	0.55
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	1	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	18	0.55
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	8	0.55
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	5	0.55
(1,400)	1:47:A:LYS:HG2	1:48:A:ASP:HB2	16	0.55
(1,400)	1:47:A:LYS:HG2	1:48:A:ASP:HB3	16	0.55
(1,400)	1:47:A:LYS:HG3	1:48:A:ASP:HB2	16	0.55
(1,400)	1:47:A:LYS:HG3	1:48:A:ASP:HB3	16	0.55
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	2	0.55
(1,379)	1:44:A:GLY:HA2	1:45:A:VAL:H	9	0.55
(1,379)	1:44:A:GLY:HA3	1:45:A:VAL:H	9	0.55
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	16	0.55
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB2	13	0.55
(1,315)	1:32:A:ALA:HB3	1:54:A:GLN:HB3	13	0.55
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	4	0.55
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	8	0.55
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	8	0.55
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB2	17	0.55
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB3	17	0.55
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	14	0.55
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	14	0.55
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	18	0.55
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	18	0.55
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	14	0.55
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	16	0.55
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	16	0.55
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	1	0.55
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	15	0.55
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	5	0.55
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	5	0.55
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	19	0.54
(2,33)	1:109:A:MET:O	1:113:A:ILE:H	1	0.54
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	1	0.54
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	11	0.54
(1,2191)	1:247:A:GLY:HA2	1:249:A:GLU:H	1	0.54
(1,2191)	1:247:A:GLY:HA3	1:249:A:GLU:H	1	0.54
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	8	0.54
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	19	0.54
(1,2136)	1:238:A:VAL:HA	1:238:A:VAL:HG23	6	0.54
(1,2136)	1:238:A:VAL:HA	1:238:A:VAL:HG23	11	0.54
(1,2136)	1:238:A:VAL:HA	1:238:A:VAL:HG23	12	0.54
(1,2136)	1:238:A:VAL:HA	1:238:A:VAL:HG23	15	0.54
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	19	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	10	0.54
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	10	0.54
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	1	0.54
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	9	0.54
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	10	0.54
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	3	0.54
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	2	0.54
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	14	0.54
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	14	0.54
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	16	0.54
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	16	0.54
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	3	0.54
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	14	0.54
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	8	0.54
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	9	0.54
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	6	0.54
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	2	0.54
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	15	0.54
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	12	0.54
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	5	0.54
(1,1805)	1:202:A:GLU:HG2	1:210:A:ILE:HG12	18	0.54
(1,1805)	1:202:A:GLU:HG2	1:210:A:ILE:HG13	18	0.54
(1,1805)	1:202:A:GLU:HG3	1:210:A:ILE:HG12	18	0.54
(1,1805)	1:202:A:GLU:HG3	1:210:A:ILE:HG13	18	0.54
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	12	0.54
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	20	0.54
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	6	0.54
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	4	0.54
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	4	0.54
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	7	0.54
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	7	0.54
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	7	0.54
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	7	0.54
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	1	0.54
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	1	0.54
(1,1608)	1:188:A:LEU:HB2	1:192:A:LEU:H	3	0.54
(1,1608)	1:188:A:LEU:HB3	1:192:A:LEU:H	3	0.54
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	16	0.54
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	16	0.54
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	5	0.54
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	18	0.54
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	18	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	2	0.54
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	9	0.54
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	1	0.54
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	14	0.54
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	15	0.54
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	17	0.54
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	17	0.54
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	9	0.54
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	15	0.54
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	7	0.54
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	7	0.54
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	4	0.54
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	4	0.54
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	12	0.54
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	12	0.54
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	15	0.54
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	15	0.54
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	19	0.54
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	19	0.54
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	17	0.54
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	17	0.54
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	8	0.54
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	12	0.54
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	17	0.54
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	10	0.54
(1,1209)	1:142:A:ILE:H	1:143:A:HIS:H	14	0.54
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	4	0.54
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	11	0.54
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	13	0.54
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	13	0.54
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	15	0.54
(1,1075)	1:129:A:PRO:HG2	1:130:A:TYR:HA	19	0.54
(1,1075)	1:129:A:PRO:HG3	1:130:A:TYR:HA	19	0.54
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	14	0.54
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	19	0.54
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	8	0.54
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	13	0.54
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	6	0.54
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	6	0.54
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG2	2	0.54
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG3	2	0.54
(1,901)	1:91:A:THR:H	1:93:A:GLY:H	4	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	3	0.54
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	7	0.54
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	10	0.54
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	10	0.54
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	10	0.54
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	10	0.54
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	18	0.54
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	18	0.54
(1,767)	1:82:A:GLN:HB2	1:83:A:THR:H	13	0.54
(1,767)	1:82:A:GLN:HB3	1:83:A:THR:H	13	0.54
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	7	0.54
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	16	0.54
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	13	0.54
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	11	0.54
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	11	0.54
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	7	0.54
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	4	0.54
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	16	0.54
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	16	0.54
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	6	0.54
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	11	0.54
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	11	0.54
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	2	0.54
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	2	0.54
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	15	0.54
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	15	0.54
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	14	0.54
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	8	0.54
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	19	0.54
(1,415)	1:49:A:LEU:HA	1:52:A:VAL:HG23	15	0.54
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	6	0.54
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	8	0.54
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	9	0.54
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	2	0.54
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	18	0.54
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	17	0.54
(1,291)	1:30:A:GLU:HB2	1:31:A:ILE:H	19	0.54
(1,291)	1:30:A:GLU:HB3	1:31:A:ILE:H	19	0.54
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	3	0.54
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	8	0.54
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	8	0.54
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	10	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:24:A:ARG:H	1:27:A:LYS:HB2	19	0.54
(1,238)	1:24:A:ARG:H	1:27:A:LYS:HB3	19	0.54
(1,222)	1:23:A:LYS:HA	1:28:A:ARG:HG2	14	0.54
(1,222)	1:23:A:LYS:HA	1:28:A:ARG:HG3	14	0.54
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	2	0.54
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	2	0.54
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	14	0.54
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	14	0.54
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	14	0.54
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	16	0.54
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	3	0.54
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	17	0.54
(1,74)	1:14:A:LEU:H	1:15:A:THR:H	8	0.54
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	2	0.54
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	2	0.54
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	15	0.54
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	15	0.54
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	15	0.54
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	15	0.54
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	5	0.54
(2,38)	1:114:A:ALA:O	1:118:A:ALA:H	8	0.53
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	16	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	4	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	4	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	4	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	4	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	13	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	13	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	13	0.53
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	13	0.53
(1,2160)	1:243:A:ASP:HB2	1:244:A:VAL:H	16	0.53
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	11	0.53
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD2	12	0.53
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD3	12	0.53
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	13	0.53
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	13	0.53
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	13	0.53
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	13	0.53
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	8	0.53
(1,2136)	1:238:A:VAL:HA	1:238:A:VAL:HG23	8	0.53
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	17	0.53
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	17	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	15	0.53
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	3	0.53
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	11	0.53
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	13	0.53
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	19	0.53
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	14	0.53
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	14	0.53
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	13	0.53
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	13	0.53
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	8	0.53
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB2	19	0.53
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB3	19	0.53
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	2	0.53
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	1	0.53
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	5	0.53
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	5	0.53
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	5	0.53
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	5	0.53
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	13	0.53
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	13	0.53
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	11	0.53
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	11	0.53
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	11	0.53
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	11	0.53
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	7	0.53
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	7	0.53
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	13	0.53
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG2	2	0.53
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG3	2	0.53
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	11	0.53
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	12	0.53
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	10	0.53
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	10	0.53
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	10	0.53
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	12	0.53
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	5	0.53
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	5	0.53
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	8	0.53
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	2	0.53
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	1	0.53
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	9	0.53
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	18	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	6	0.53
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	14	0.53
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	16	0.53
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	16	0.53
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	7	0.53
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	7	0.53
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	13	0.53
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	3	0.53
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	3	0.53
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	3	0.53
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	3	0.53
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	13	0.53
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	13	0.53
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	14	0.53
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	20	0.53
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	7	0.53
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	18	0.53
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	18	0.53
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	10	0.53
(1,1151)	1:136:A:GLU:HB2	1:137:A:ARG:HA	1	0.53
(1,1151)	1:136:A:GLU:HB3	1:137:A:ARG:HA	1	0.53
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	10	0.53
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	10	0.53
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	19	0.53
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	19	0.53
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	7	0.53
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	7	0.53
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	6	0.53
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	9	0.53
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	16	0.53
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	15	0.53
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	9	0.53
(1,1012)	1:117:A:VAL:HG23	1:120:A:LYS:HA	13	0.53
(1,991)	1:115:A:THR:H	1:132:A:VAL:HG23	19	0.53
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	4	0.53
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	4	0.53
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	15	0.53
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG13	18	0.53
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG23	18	0.53
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	8	0.53
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	5	0.53
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	5	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	2	0.53
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	3	0.53
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	10	0.53
(1,695)	1:74:A:ILE:HG12	1:80:A:ASP:HA	9	0.53
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	13	0.53
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	13	0.53
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	2	0.53
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	4	0.53
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	12	0.53
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	17	0.53
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG2	14	0.53
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG3	14	0.53
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG2	14	0.53
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG3	14	0.53
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	15	0.53
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	15	0.53
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	15	0.53
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	15	0.53
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	16	0.53
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	2	0.53
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	7	0.53
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	18	0.53
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	6	0.53
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	3	0.53
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	7	0.53
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	7	0.53
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	15	0.53
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	15	0.53
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	15	0.53
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	15	0.53
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	11	0.53
(1,291)	1:30:A:GLU:HB2	1:31:A:ILE:H	14	0.53
(1,291)	1:30:A:GLU:HB3	1:31:A:ILE:H	14	0.53
(1,245)	1:25:A:ALA:HB3	1:26:A:GLY:H	10	0.53
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	15	0.53
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	20	0.53
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	9	0.53
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	9	0.53
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	19	0.53
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	19	0.53
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	12	0.53
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	12	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	5	0.53
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	8	0.53
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	17	0.53
(1,86)	1:15:A:THR:H	1:15:A:THR:HG23	4	0.53
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	11	0.53
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	11	0.53
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	10	0.53
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	10	0.53
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	10	0.53
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	10	0.53
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	11	0.53
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	16	0.53
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	12	0.52
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	1	0.52
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	17	0.52
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	8	0.52
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	1	0.52
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	13	0.52
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	13	0.52
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	2	0.52
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	7	0.52
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	19	0.52
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	6	0.52
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	6	0.52
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	13	0.52
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	6	0.52
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	5	0.52
(1,1951)	1:224:A:GLU:H	1:227:A:LYS:HG2	17	0.52
(1,1951)	1:224:A:GLU:H	1:227:A:LYS:HG3	17	0.52
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	10	0.52
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	10	0.52
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	16	0.52
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	10	0.52
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	9	0.52
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB3	11	0.52
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB2	11	0.52
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	17	0.52
(1,1798)	1:202:A:GLU:HA	1:248:A:ASP:H	15	0.52
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	7	0.52
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	7	0.52
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	7	0.52
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	7	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	4	0.52
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	8	0.52
(1,1759)	1:199:A:ILE:HD13	1:212:A:CYS:H	8	0.52
(1,1753)	1:199:A:ILE:HG23	1:201:A:SER:H	15	0.52
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	7	0.52
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	9	0.52
(1,1742)	1:199:A:ILE:H	1:213:A:LEU:H	12	0.52
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	16	0.52
(1,1728)	1:198:A:VAL:HB	1:210:A:ILE:HA	12	0.52
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	20	0.52
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	18	0.52
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	18	0.52
(1,1680)	1:192:A:LEU:HD23	1:198:A:VAL:HA	20	0.52
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	9	0.52
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	15	0.52
(1,1608)	1:188:A:LEU:HB2	1:192:A:LEU:H	14	0.52
(1,1608)	1:188:A:LEU:HB3	1:192:A:LEU:H	14	0.52
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	20	0.52
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	20	0.52
(1,1478)	1:177:A:ARG:HB2	1:209:A:GLU:HG2	1	0.52
(1,1478)	1:177:A:ARG:HB2	1:209:A:GLU:HG3	1	0.52
(1,1478)	1:177:A:ARG:HB3	1:209:A:GLU:HG2	1	0.52
(1,1478)	1:177:A:ARG:HB3	1:209:A:GLU:HG3	1	0.52
(1,1463)	1:176:A:LEU:HG	1:239:A:LEU:H	5	0.52
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB2	6	0.52
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB3	6	0.52
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB2	6	0.52
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB3	6	0.52
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	19	0.52
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	19	0.52
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	13	0.52
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	13	0.52
(1,1420)	1:172:A:ALA:HA	1:173:A:HIS:H	18	0.52
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	16	0.52
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	9	0.52
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	9	0.52
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG2	11	0.52
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG3	11	0.52
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	4	0.52
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	20	0.52
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	18	0.52
(1,1198)	1:140:A:LYS:H	1:143:A:HIS:H	14	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1187)	1:138:A:ALA:HA	1:141:A:ASP:HB3	14	0.52
(1,1187)	1:138:A:ALA:HA	1:141:A:ASP:HB2	14	0.52
(1,1187)	1:138:A:ALA:HA	1:141:A:ASP:HB3	14	0.52
(1,1187)	1:138:A:ALA:HA	1:141:A:ASP:HB2	14	0.52
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	14	0.52
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	2	0.52
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	18	0.52
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	2	0.52
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	4	0.52
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	4	0.52
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	4	0.52
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	4	0.52
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG13	9	0.52
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG23	9	0.52
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	10	0.52
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	10	0.52
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	19	0.52
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	19	0.52
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	14	0.52
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	4	0.52
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	19	0.52
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	19	0.52
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB2	14	0.52
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB3	14	0.52
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB2	17	0.52
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB3	17	0.52
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	6	0.52
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	8	0.52
(1,902)	1:91:A:THR:HA	1:91:A:THR:HG23	17	0.52
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	2	0.52
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	2	0.52
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	13	0.52
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	9	0.52
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	1	0.52
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG2	10	0.52
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG3	10	0.52
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG2	10	0.52
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG3	10	0.52
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	6	0.52
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	6	0.52
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	10	0.52
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	14	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	8	0.52
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	6	0.52
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	6	0.52
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	8	0.52
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	8	0.52
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	18	0.52
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	2	0.52
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	2	0.52
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE2	1	0.52
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE3	1	0.52
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE2	1	0.52
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE3	1	0.52
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	19	0.52
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	13	0.52
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	13	0.52
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	1	0.52
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	18	0.52
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	20	0.52
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	20	0.52
(1,449)	1:53:A:LEU:HD13	1:54:A:GLN:HA	13	0.52
(1,414)	1:49:A:LEU:HA	1:52:A:VAL:HA	7	0.52
(1,414)	1:49:A:LEU:HA	1:52:A:VAL:HA	10	0.52
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	13	0.52
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	13	0.52
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	18	0.52
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	18	0.52
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	13	0.52
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	13	0.52
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	11	0.52
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	6	0.52
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	6	0.52
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	4	0.52
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	12	0.52
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	1	0.52
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	12	0.52
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	15	0.52
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	20	0.52
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	8	0.52
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	8	0.52
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	4	0.52
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	11	0.52
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	11	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,112)	1:18:A:ALA:HB3	1:20:A:VAL:H	12	0.52
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	11	0.52
(1,91)	1:15:A:THR:HA	1:17:A:VAL:H	18	0.52
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	10	0.52
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	10	0.52
(1,74)	1:14:A:LEU:H	1:15:A:THR:H	4	0.52
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	13	0.52
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	13	0.52
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	15	0.52
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	6	0.52
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	19	0.51
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	12	0.51
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	4	0.51
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	5	0.51
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	8	0.51
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	8	0.51
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	2	0.51
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	18	0.51
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	18	0.51
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	8	0.51
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	8	0.51
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	9	0.51
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	19	0.51
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	1	0.51
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	1	0.51
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	11	0.51
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	11	0.51
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	3	0.51
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	3	0.51
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	19	0.51
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	19	0.51
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	2	0.51
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	18	0.51
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	11	0.51
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	10	0.51
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	19	0.51
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	14	0.51
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	14	0.51
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	1	0.51
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	19	0.51
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	1	0.51
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	11	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	6	0.51
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	12	0.51
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	11	0.51
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	2	0.51
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	19	0.51
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	12	0.51
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	9	0.51
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	7	0.51
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	7	0.51
(1,1676)	1:192:A:LEU:HG	1:229:A:GLU:HG2	13	0.51
(1,1676)	1:192:A:LEU:HG	1:229:A:GLU:HG3	13	0.51
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	10	0.51
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	3	0.51
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	17	0.51
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	19	0.51
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	9	0.51
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	9	0.51
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	2	0.51
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	13	0.51
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	15	0.51
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	3	0.51
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	5	0.51
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	13	0.51
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	13	0.51
(1,1440)	1:175:A:ARG:HB2	1:239:A:LEU:HB2	6	0.51
(1,1440)	1:175:A:ARG:HB2	1:239:A:LEU:HB3	6	0.51
(1,1440)	1:175:A:ARG:HB3	1:239:A:LEU:HB2	6	0.51
(1,1440)	1:175:A:ARG:HB3	1:239:A:LEU:HB3	6	0.51
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	2	0.51
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	2	0.51
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	7	0.51
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	7	0.51
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	17	0.51
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	17	0.51
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	6	0.51
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	2	0.51
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	17	0.51
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	17	0.51
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	7	0.51
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	9	0.51
(1,1198)	1:140:A:LYS:H	1:143:A:HIS:H	16	0.51
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	7	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	14	0.51
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	14	0.51
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	14	0.51
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	13	0.51
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	13	0.51
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	8	0.51
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	2	0.51
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	13	0.51
(1,1096)	1:132:A:VAL:HB	1:133:A:ILE:HD13	18	0.51
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	16	0.51
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	16	0.51
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	16	0.51
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	16	0.51
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	8	0.51
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	8	0.51
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	8	0.51
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	8	0.51
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	4	0.51
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	2	0.51
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	17	0.51
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	7	0.51
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	3	0.51
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	3	0.51
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	3	0.51
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	3	0.51
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	7	0.51
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	7	0.51
(1,940)	1:95:A:VAL:HG13	1:97:A:VAL:H	13	0.51
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	17	0.51
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG13	15	0.51
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG23	15	0.51
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	19	0.51
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	20	0.51
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	20	0.51
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	16	0.51
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	16	0.51
(1,805)	1:85:A:ILE:HG21	1:88:A:GLN:HB2	6	0.51
(1,805)	1:85:A:ILE:HG21	1:88:A:GLN:HB3	6	0.51
(1,805)	1:85:A:ILE:HG22	1:88:A:GLN:HB2	6	0.51
(1,805)	1:85:A:ILE:HG22	1:88:A:GLN:HB3	6	0.51
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	2	0.51
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	17	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	15	0.51
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	20	0.51
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	6	0.51
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	10	0.51
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	8	0.51
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	13	0.51
(1,629)	1:71:A:GLU:H	1:73:A:LEU:H	7	0.51
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	6	0.51
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	19	0.51
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	19	0.51
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	19	0.51
(1,526)	1:61:A:ASN:H	1:66:A:GLN:H	17	0.51
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	3	0.51
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	12	0.51
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	18	0.51
(1,496)	1:59:A:PHE:HA	1:67:A:VAL:HB	1	0.51
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	15	0.51
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	15	0.51
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	8	0.51
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	20	0.51
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	19	0.51
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	2	0.51
(1,445)	1:53:A:LEU:HA	1:55:A:THR:H	14	0.51
(1,439)	1:52:A:VAL:HG23	1:53:A:LEU:H	16	0.51
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	15	0.51
(1,379)	1:44:A:GLY:HA2	1:45:A:VAL:H	11	0.51
(1,379)	1:44:A:GLY:HA3	1:45:A:VAL:H	11	0.51
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG2	14	0.51
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG3	14	0.51
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG2	14	0.51
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG3	14	0.51
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	3	0.51
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	7	0.51
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	7	0.51
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	4	0.51
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	8	0.51
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	8	0.51
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	20	0.51
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	14	0.51
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	4	0.51
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	14	0.51
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	14	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	4	0.51
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	9	0.51
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	9	0.51
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	9	0.51
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	9	0.51
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	6	0.51
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	6	0.51
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	3	0.51
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	3	0.51
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	18	0.51
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	16	0.51
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	16	0.51
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	15	0.51
(2,67)	1:220:A:ARG:O	1:224:A:GLU:H	2	0.5
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	5	0.5
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	18	0.5
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	18	0.5
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	12	0.5
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	4	0.5
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	9	0.5
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	14	0.5
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	2	0.5
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	2	0.5
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	6	0.5
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	16	0.5
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	8	0.5
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	3	0.5
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	10	0.5
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	19	0.5
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	19	0.5
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	12	0.5
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	13	0.5
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	9	0.5
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	8	0.5
(1,1896)	1:217:A:GLY:H	1:218:A:CYS:H	14	0.5
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	7	0.5
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	7	0.5
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	1	0.5
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	18	0.5
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	18	0.5
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	8	0.5
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	6	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1833)	1:204:A:TYR:H	1:208:A:LEU:HA	9	0.5
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	17	0.5
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	1	0.5
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	9	0.5
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	12	0.5
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	12	0.5
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	13	0.5
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	14	0.5
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	12	0.5
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	2	0.5
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	2	0.5
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	13	0.5
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	13	0.5
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	18	0.5
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	18	0.5
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	18	0.5
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG2	8	0.5
(1,1649)	1:190:A:GLU:H	1:193:A:LYS:HG3	8	0.5
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	8	0.5
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	7	0.5
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	2	0.5
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	16	0.5
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	12	0.5
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	12	0.5
(1,1578)	1:186:A:LYS:HA	1:189:A:LYS:HG2	17	0.5
(1,1578)	1:186:A:LYS:HA	1:189:A:LYS:HG3	17	0.5
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	8	0.5
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	13	0.5
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	20	0.5
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	20	0.5
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	12	0.5
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	12	0.5
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	17	0.5
(1,1459)	1:176:A:LEU:HG	1:177:A:ARG:H	9	0.5
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	20	0.5
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	16	0.5
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	16	0.5
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	18	0.5
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	18	0.5
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	2	0.5
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	2	0.5
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	14	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG2	5	0.5
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG3	5	0.5
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	20	0.5
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	20	0.5
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	15	0.5
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	5	0.5
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	5	0.5
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	3	0.5
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	2	0.5
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	18	0.5
(1,1226)	1:145:A:SER:HA	1:146:A:VAL:H	9	0.5
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB2	17	0.5
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB3	17	0.5
(1,1150)	1:136:A:GLU:HB2	1:137:A:ARG:H	1	0.5
(1,1150)	1:136:A:GLU:HB3	1:137:A:ARG:H	1	0.5
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	6	0.5
(1,1061)	1:126:A:THR:H	1:126:A:THR:HG23	11	0.5
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD2	3	0.5
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD3	3	0.5
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	19	0.5
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	8	0.5
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	8	0.5
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	8	0.5
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	8	0.5
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	6	0.5
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	15	0.5
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	15	0.5
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	17	0.5
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	17	0.5
(1,902)	1:91:A:THR:HA	1:91:A:THR:HG23	5	0.5
(1,902)	1:91:A:THR:HA	1:91:A:THR:HG23	18	0.5
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	17	0.5
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	17	0.5
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	15	0.5
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	3	0.5
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	3	0.5
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	15	0.5
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	18	0.5
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	19	0.5
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	13	0.5
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	14	0.5
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE2	4	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE3	4	0.5
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE2	4	0.5
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE3	4	0.5
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	3	0.5
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	3	0.5
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	4	0.5
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	8	0.5
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	6	0.5
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB2	4	0.5
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB3	4	0.5
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB2	4	0.5
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB3	4	0.5
(1,392)	1:46:A:GLU:HB2	1:47:A:LYS:H	11	0.5
(1,392)	1:46:A:GLU:HB3	1:47:A:LYS:H	11	0.5
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	14	0.5
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	14	0.5
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	2	0.5
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	2	0.5
(1,349)	1:39:A:VAL:H	1:39:A:VAL:HB	19	0.5
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	1	0.5
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	1	0.5
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	15	0.5
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	3	0.5
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	3	0.5
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	9	0.5
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	6	0.5
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	1	0.5
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	1	0.5
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	13	0.5
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	13	0.5
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	13	0.5
(1,154)	1:20:A:VAL:HG23	1:93:A:GLY:HA2	11	0.5
(1,154)	1:20:A:VAL:HG23	1:93:A:GLY:HA3	11	0.5
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	8	0.5
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	9	0.5
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	12	0.5
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	13	0.5
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	13	0.5
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	19	0.5
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	17	0.5
(1,69)	1:13:A:ARG:HB2	1:15:A:THR:HA	8	0.5
(1,69)	1:13:A:ARG:HB3	1:15:A:THR:HA	8	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	1	0.49
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	1	0.49
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	15	0.49
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	12	0.49
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	12	0.49
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB2	19	0.49
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB3	19	0.49
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	14	0.49
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	14	0.49
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	11	0.49
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	18	0.49
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	14	0.49
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	17	0.49
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	17	0.49
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	6	0.49
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	8	0.49
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	2	0.49
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	17	0.49
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	18	0.49
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	18	0.49
(1,1925)	1:221:A:GLU:HB2	1:223:A:ASP:H	19	0.49
(1,1925)	1:221:A:GLU:HB3	1:223:A:ASP:H	19	0.49
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	3	0.49
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	2	0.49
(1,1892)	1:216:A:PRO:HA	1:218:A:CYS:H	9	0.49
(1,1857)	1:208:A:LEU:H	1:208:A:LEU:HD13	7	0.49
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	17	0.49
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	3	0.49
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	3	0.49
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	3	0.49
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	3	0.49
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	18	0.49
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	6	0.49
(1,1803)	1:202:A:GLU:HB2	1:248:A:ASP:H	10	0.49
(1,1803)	1:202:A:GLU:HB3	1:248:A:ASP:H	10	0.49
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	3	0.49
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	3	0.49
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	10	0.49
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	14	0.49
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	20	0.49
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	14	0.49
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	14	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	5	0.49
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	11	0.49
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG2	2	0.49
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG3	2	0.49
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	7	0.49
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	9	0.49
(1,1592)	1:188:A:LEU:H	1:188:A:LEU:HG	17	0.49
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	1	0.49
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	6	0.49
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	12	0.49
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	11	0.49
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	11	0.49
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	18	0.49
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	18	0.49
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	18	0.49
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	18	0.49
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	9	0.49
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	9	0.49
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	19	0.49
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	13	0.49
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	19	0.49
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	12	0.49
(1,1459)	1:176:A:LEU:HG	1:177:A:ARG:H	19	0.49
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	11	0.49
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	11	0.49
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	3	0.49
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	3	0.49
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	9	0.49
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	9	0.49
(1,1426)	1:173:A:HIS:HB2	1:215:A:ASP:HA	19	0.49
(1,1426)	1:173:A:HIS:HB3	1:215:A:ASP:HA	19	0.49
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	1	0.49
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	8	0.49
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	5	0.49
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	20	0.49
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	20	0.49
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	16	0.49
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	16	0.49
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	16	0.49
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	16	0.49
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	15	0.49
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	3	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	3	0.49
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	18	0.49
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	20	0.49
(1,1209)	1:142:A:ILE:H	1:143:A:HIS:H	4	0.49
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	7	0.49
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	8	0.49
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB2	13	0.49
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB3	13	0.49
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	12	0.49
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	12	0.49
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	11	0.49
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	3	0.49
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	13	0.49
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	13	0.49
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	5	0.49
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	16	0.49
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	13	0.49
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	13	0.49
(1,902)	1:91:A:THR:HA	1:91:A:THR:HG23	10	0.49
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	11	0.49
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	11	0.49
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	11	0.49
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	11	0.49
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG2	17	0.49
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG3	17	0.49
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG2	17	0.49
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG3	17	0.49
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	12	0.49
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	1	0.49
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	12	0.49
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	20	0.49
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	1	0.49
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	1	0.49
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	8	0.49
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	10	0.49
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	16	0.49
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	4	0.49
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	1	0.49
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	1	0.49
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	1	0.49
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	1	0.49
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	15	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	12	0.49
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	7	0.49
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	16	0.49
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	13	0.49
(1,464)	1:55:A:THR:HA	1:55:A:THR:HG23	1	0.49
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	8	0.49
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	11	0.49
(1,415)	1:49:A:LEU:HA	1:52:A:VAL:HG23	7	0.49
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	8	0.49
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	12	0.49
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	12	0.49
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	12	0.49
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	12	0.49
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	6	0.49
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	3	0.49
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	3	0.49
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	13	0.49
(1,303)	1:31:A:ILE:HB	1:58:A:VAL:HG23	4	0.49
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	18	0.49
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	19	0.49
(1,236)	1:24:A:ARG:H	1:27:A:LYS:H	11	0.49
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	7	0.49
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	7	0.49
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	16	0.49
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	16	0.49
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	12	0.49
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	15	0.49
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	13	0.49
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	13	0.49
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	7	0.49
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	1	0.49
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	1	0.49
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	14	0.49
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	19	0.48
(2,47)	1:156:A:ALA:O	1:160:A:ILE:H	13	0.48
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	20	0.48
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	5	0.48
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	13	0.48
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	17	0.48
(1,2169)	1:244:A:VAL:HG13	1:245:A:GLU:H	5	0.48
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	7	0.48
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	1	0.48
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	15	0.48
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	15	0.48
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	1	0.48
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	1	0.48
(1,2098)	1:232:A:GLY:H	1:233:A:LYS:H	16	0.48
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	18	0.48
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	14	0.48
(1,2032)	1:227:A:LYS:HA	1:232:A:GLY:H	11	0.48
(1,2024)	1:227:A:LYS:H	1:230:A:THR:H	12	0.48
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	17	0.48
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	5	0.48
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	4	0.48
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	4	0.48
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	9	0.48
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	9	0.48
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	1	0.48
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	9	0.48
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	16	0.48
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	16	0.48
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	5	0.48
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG12	3	0.48
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG13	3	0.48
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	5	0.48
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	5	0.48
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	13	0.48
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	13	0.48
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	13	0.48
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	13	0.48
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB2	20	0.48
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB3	20	0.48
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	20	0.48
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	15	0.48
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	12	0.48
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	11	0.48
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	11	0.48
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	2	0.48
(1,1758)	1:199:A:ILE:HD13	1:211:A:VAL:HB	8	0.48
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	12	0.48
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	16	0.48
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	7	0.48
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	6	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	9	0.48
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	1	0.48
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	8	0.48
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD2	16	0.48
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD3	16	0.48
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD2	16	0.48
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD3	16	0.48
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	6	0.48
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	19	0.48
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	9	0.48
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB2	4	0.48
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB3	4	0.48
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB2	4	0.48
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB3	4	0.48
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	15	0.48
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	15	0.48
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	12	0.48
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	12	0.48
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	3	0.48
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	19	0.48
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB2	20	0.48
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB3	20	0.48
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB2	20	0.48
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB3	20	0.48
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	4	0.48
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	4	0.48
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	10	0.48
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	10	0.48
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	20	0.48
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	17	0.48
(1,1349)	1:162:A:GLN:HG2	1:163:A:LEU:HA	17	0.48
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	17	0.48
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	15	0.48
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	15	0.48
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	2	0.48
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	2	0.48
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	1	0.48
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	1	0.48
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	1	0.48
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	1	0.48
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	1	0.48
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1253)	1:153:A:LYS:H	1:156:A:ALA:HB3	9	0.48
(1,1233)	1:146:A:VAL:HG13	1:146:A:VAL:HG23	2	0.48
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	16	0.48
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	18	0.48
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	20	0.48
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	16	0.48
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	18	0.48
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	15	0.48
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	15	0.48
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	4	0.48
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	4	0.48
(1,1007)	1:117:A:VAL:HA	1:117:A:VAL:HG23	2	0.48
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	11	0.48
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	16	0.48
(1,979)	1:111:A:ARG:HG2	1:136:A:GLU:HB2	12	0.48
(1,979)	1:111:A:ARG:HG2	1:136:A:GLU:HB3	12	0.48
(1,979)	1:111:A:ARG:HG3	1:136:A:GLU:HB2	12	0.48
(1,979)	1:111:A:ARG:HG3	1:136:A:GLU:HB3	12	0.48
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	3	0.48
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	20	0.48
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	17	0.48
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG13	5	0.48
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG23	5	0.48
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	18	0.48
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	6	0.48
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	13	0.48
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	13	0.48
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	7	0.48
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	18	0.48
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	19	0.48
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	19	0.48
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	11	0.48
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	11	0.48
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	14	0.48
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	1	0.48
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	18	0.48
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	20	0.48
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	7	0.48
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	10	0.48
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	11	0.48
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	8	0.48
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	20	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	20	0.48
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	16	0.48
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	12	0.48
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	12	0.48
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	19	0.48
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	15	0.48
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	8	0.48
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	12	0.48
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	12	0.48
(1,476)	1:58:A:VAL:H	1:67:A:VAL:HG13	8	0.48
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	5	0.48
(1,464)	1:55:A:THR:HA	1:55:A:THR:HG23	9	0.48
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	14	0.48
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	9	0.48
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB2	17	0.48
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB3	17	0.48
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB2	17	0.48
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB3	17	0.48
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	13	0.48
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	15	0.48
(1,368)	1:43:A:SER:H	1:43:A:SER:HB2	11	0.48
(1,368)	1:43:A:SER:H	1:43:A:SER:HB3	11	0.48
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	9	0.48
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	9	0.48
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	10	0.48
(1,330)	1:34:A:TYR:H	1:53:A:LEU:H	12	0.48
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	15	0.48
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	13	0.48
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	13	0.48
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	13	0.48
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	13	0.48
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	5	0.48
(1,277)	1:29:A:PHE:HB2	1:58:A:VAL:HG13	18	0.48
(1,277)	1:29:A:PHE:HB3	1:58:A:VAL:HG13	18	0.48
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	14	0.48
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	14	0.48
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	16	0.48
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	16	0.48
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	15	0.48
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	15	0.48
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	14	0.48
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	14	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	19	0.48
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	19	0.48
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	5	0.48
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	5	0.48
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	8	0.48
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB2	3	0.48
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB3	3	0.48
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	11	0.48
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	18	0.48
(1,99)	1:17:A:VAL:HG23	1:18:A:ALA:H	4	0.48
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	17	0.48
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	17	0.48
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	17	0.48
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	17	0.48
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	9	0.48
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	5	0.48
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	10	0.48
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	1	0.47
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	13	0.47
(2,24)	1:73:A:LEU:O	1:78:A:GLY:H	7	0.47
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	6	0.47
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	3	0.47
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	3	0.47
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	3	0.47
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	3	0.47
(1,2159)	1:243:A:ASP:HB2	1:244:A:VAL:HG13	17	0.47
(1,2159)	1:243:A:ASP:HB3	1:244:A:VAL:HG13	17	0.47
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	10	0.47
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	10	0.47
(1,2065)	1:229:A:GLU:HB2	1:230:A:THR:HG23	17	0.47
(1,2065)	1:229:A:GLU:HB3	1:230:A:THR:HG23	17	0.47
(1,2032)	1:227:A:LYS:HA	1:232:A:GLY:H	12	0.47
(1,2016)	1:226:A:ILE:HG23	1:231:A:LYS:HA	16	0.47
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	12	0.47
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB2	10	0.47
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB3	10	0.47
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB2	10	0.47
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB3	10	0.47
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	2	0.47
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	4	0.47
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	3	0.47
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	4	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	8	0.47
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	12	0.47
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	12	0.47
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	20	0.47
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	13	0.47
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	8	0.47
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	11	0.47
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	11	0.47
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	2	0.47
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	13	0.47
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	13	0.47
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	10	0.47
(1,1615)	1:188:A:LEU:HD13	1:230:A:THR:HA	19	0.47
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	15	0.47
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	15	0.47
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	15	0.47
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	15	0.47
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	15	0.47
(1,1523)	1:181:A:PRO:HB2	1:184:A:GLU:HB2	5	0.47
(1,1523)	1:181:A:PRO:HB2	1:184:A:GLU:HB3	5	0.47
(1,1523)	1:181:A:PRO:HB3	1:184:A:GLU:HB2	5	0.47
(1,1523)	1:181:A:PRO:HB3	1:184:A:GLU:HB3	5	0.47
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	3	0.47
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	10	0.47
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	10	0.47
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	14	0.47
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	14	0.47
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	2	0.47
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	2	0.47
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	9	0.47
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	9	0.47
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	17	0.47
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	1	0.47
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	1	0.47
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	7	0.47
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	7	0.47
(1,1271)	1:155:A:GLN:H	1:156:A:ALA:H	4	0.47
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	8	0.47
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	12	0.47
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	2	0.47
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	8	0.47
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	8	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	18	0.47
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	19	0.47
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	18	0.47
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	18	0.47
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	18	0.47
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	15	0.47
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	15	0.47
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	15	0.47
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	15	0.47
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	15	0.47
(1,1118)	1:133:A:ILE:HA	1:136:A:GLU:HB2	4	0.47
(1,1118)	1:133:A:ILE:HA	1:136:A:GLU:HB3	4	0.47
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	2	0.47
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	7	0.47
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	8	0.47
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	8	0.47
(1,1026)	1:118:A:ALA:HB3	1:132:A:VAL:HB	3	0.47
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG2	1	0.47
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG3	1	0.47
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG2	1	0.47
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG3	1	0.47
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	7	0.47
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	8	0.47
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	3	0.47
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	3	0.47
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	3	0.47
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	14	0.47
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	14	0.47
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	5	0.47
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	13	0.47
(1,767)	1:82:A:GLN:HB2	1:83:A:THR:H	20	0.47
(1,767)	1:82:A:GLN:HB3	1:83:A:THR:H	20	0.47
(1,736)	1:79:A:THR:HA	1:79:A:THR:HG23	14	0.47
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	15	0.47
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	20	0.47
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	11	0.47
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	7	0.47
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	2	0.47
(1,655)	1:73:A:LEU:H	1:74:A:ILE:HG23	2	0.47
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	6	0.47
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	10	0.47
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	10	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	15	0.47
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	15	0.47
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	3	0.47
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	2	0.47
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	10	0.47
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	9	0.47
(1,386)	1:45:A:VAL:HA	1:46:A:GLU:H	4	0.47
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	3	0.47
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	4	0.47
(1,339)	1:38:A:VAL:HG13	1:39:A:VAL:H	2	0.47
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	19	0.47
(1,304)	1:31:A:ILE:HG23	1:32:A:ALA:HB3	9	0.47
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	19	0.47
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	15	0.47
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	16	0.47
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	5	0.47
(1,245)	1:25:A:ALA:HB3	1:26:A:GLY:H	2	0.47
(1,243)	1:24:A:ARG:HB2	1:27:A:LYS:H	15	0.47
(1,243)	1:24:A:ARG:HB3	1:27:A:LYS:H	15	0.47
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	12	0.47
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	12	0.47
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	15	0.47
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	16	0.47
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	16	0.47
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	15	0.47
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	15	0.47
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	15	0.47
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	15	0.47
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG12	18	0.47
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG13	18	0.47
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB2	1	0.47
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB3	1	0.47
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	17	0.47
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	8	0.47
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	8	0.47
(1,136)	1:20:A:VAL:HA	1:95:A:VAL:HA	2	0.47
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	1	0.47
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	1	0.47
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	20	0.47
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	12	0.47
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	6	0.47
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	14	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	14	0.47
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	12	0.47
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	12	0.47
(1,26)	1:11:A:GLN:H	1:13:A:ARG:H	15	0.47
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	12	0.47
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	12	0.47
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	2	0.46
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	19	0.46
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	19	0.46
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	13	0.46
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	13	0.46
(1,2159)	1:243:A:ASP:HB2	1:244:A:VAL:HG13	12	0.46
(1,2159)	1:243:A:ASP:HB3	1:244:A:VAL:HG13	12	0.46
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	2	0.46
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	13	0.46
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	4	0.46
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	4	0.46
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	4	0.46
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	4	0.46
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	6	0.46
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	3	0.46
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	10	0.46
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB2	2	0.46
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB3	2	0.46
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB2	2	0.46
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB3	2	0.46
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB2	3	0.46
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB3	3	0.46
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB2	3	0.46
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB3	3	0.46
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	16	0.46
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	12	0.46
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	12	0.46
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB3	17	0.46
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB2	17	0.46
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB2	6	0.46
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB3	6	0.46
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	8	0.46
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	13	0.46
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	13	0.46
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	13	0.46
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1750)	1:199:A:ILE:HB	1:211:A:VAL:HG23	6	0.46
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	19	0.46
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	2	0.46
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG12	14	0.46
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG13	14	0.46
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG12	14	0.46
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG13	14	0.46
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	20	0.46
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	20	0.46
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	18	0.46
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	18	0.46
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	16	0.46
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	18	0.46
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	5	0.46
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	1	0.46
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	19	0.46
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	14	0.46
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	15	0.46
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	2	0.46
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	2	0.46
(1,1420)	1:172:A:ALA:HA	1:173:A:HIS:H	1	0.46
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	4	0.46
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	11	0.46
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	20	0.46
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	17	0.46
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG2	20	0.46
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG3	20	0.46
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB2	7	0.46
(1,1359)	1:163:A:LEU:HD23	1:164:A:LYS:HB3	7	0.46
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	3	0.46
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	3	0.46
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	19	0.46
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	19	0.46
(1,1274)	1:155:A:GLN:HA	1:159:A:VAL:H	15	0.46
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	16	0.46
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	9	0.46
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	13	0.46
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	14	0.46
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	8	0.46
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	9	0.46
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	9	0.46
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	16	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	16	0.46
(1,1119)	1:133:A:ILE:HA	1:137:A:ARG:H	4	0.46
(1,1119)	1:133:A:ILE:HA	1:137:A:ARG:H	17	0.46
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	3	0.46
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	8	0.46
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	10	0.46
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	12	0.46
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	13	0.46
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	17	0.46
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	2	0.46
(1,1053)	1:122:A:VAL:HG23	1:123:A:ASN:H	9	0.46
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	3	0.46
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	3	0.46
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	3	0.46
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	3	0.46
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	4	0.46
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	4	0.46
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	6	0.46
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	2	0.46
(1,960)	1:109:A:MET:HB2	1:110:A:PHE:H	17	0.46
(1,960)	1:109:A:MET:HB3	1:110:A:PHE:H	17	0.46
(1,951)	1:108:A:GLN:HA	1:111:A:ARG:H	14	0.46
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	10	0.46
(1,897)	1:91:A:THR:H	1:91:A:THR:HB	12	0.46
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	15	0.46
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	3	0.46
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	3	0.46
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	17	0.46
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	17	0.46
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	17	0.46
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	17	0.46
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	14	0.46
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	14	0.46
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB2	16	0.46
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB3	16	0.46
(1,829)	1:87:A:LYS:HA	1:90:A:LEU:H	16	0.46
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	6	0.46
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	9	0.46
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	9	0.46
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	9	0.46
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	20	0.46
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	19	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	2	0.46
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	10	0.46
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	4	0.46
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	16	0.46
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	6	0.46
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	6	0.46
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	6	0.46
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	6	0.46
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	18	0.46
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	12	0.46
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	12	0.46
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	8	0.46
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	16	0.46
(1,512)	1:60:A:VAL:HA	1:60:A:VAL:HG23	19	0.46
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	20	0.46
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	1	0.46
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	1	0.46
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	1	0.46
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	4	0.46
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	16	0.46
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	7	0.46
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	18	0.46
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	1	0.46
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	1	0.46
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	19	0.46
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	8	0.46
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	10	0.46
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	16	0.46
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	1	0.46
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	1	0.46
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	1	0.46
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	1	0.46
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	7	0.46
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	7	0.46
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD2	7	0.46
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD3	7	0.46
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD2	7	0.46
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD3	7	0.46
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	15	0.46
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	15	0.46
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	17	0.46
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	6	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	6	0.46
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	3	0.46
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	3	0.46
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	2	0.46
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	20	0.46
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	20	0.46
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	4	0.46
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	4	0.46
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	5	0.46
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	4	0.46
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	4	0.46
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	2	0.46
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	14	0.46
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	15	0.46
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	19	0.46
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	19	0.46
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	1	0.46
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	8	0.46
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	12	0.46
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	12	0.46
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	5	0.46
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	17	0.46
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	17	0.46
(1,13)	1:7:A:THR:HB	1:15:A:THR:HB	15	0.46
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	20	0.46
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	3	0.45
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	20	0.45
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	18	0.45
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	1	0.45
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	18	0.45
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	4	0.45
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	14	0.45
(1,2116)	1:236:A:LEU:H	1:236:A:LEU:HG	17	0.45
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	9	0.45
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	9	0.45
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	18	0.45
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	12	0.45
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	14	0.45
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	16	0.45
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	6	0.45
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	10	0.45
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	8	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	8	0.45
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	10	0.45
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	10	0.45
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG12	11	0.45
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG13	11	0.45
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	20	0.45
(1,1898)	1:218:A:CYS:HA	1:221:A:GLU:HB2	12	0.45
(1,1898)	1:218:A:CYS:HA	1:221:A:GLU:HB3	12	0.45
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	8	0.45
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	8	0.45
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	8	0.45
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	11	0.45
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	13	0.45
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	19	0.45
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	19	0.45
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	8	0.45
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	17	0.45
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	17	0.45
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	17	0.45
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	17	0.45
(1,1817)	1:203:A:ASP:H	1:248:A:ASP:H	19	0.45
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	15	0.45
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	20	0.45
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	4	0.45
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	6	0.45
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	8	0.45
(1,1731)	1:198:A:VAL:HG13	1:210:A:ILE:HG23	5	0.45
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	17	0.45
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	1	0.45
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	8	0.45
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	18	0.45
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	12	0.45
(1,1563)	1:185:A:GLY:HA2	1:188:A:LEU:HD13	18	0.45
(1,1563)	1:185:A:GLY:HA3	1:188:A:LEU:HD13	18	0.45
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	4	0.45
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	10	0.45
(1,1550)	1:183:A:ASN:HA	1:186:A:LYS:H	19	0.45
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	14	0.45
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	13	0.45
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	15	0.45
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	15	0.45
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	18	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	18	0.45
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	6	0.45
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	19	0.45
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	9	0.45
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	9	0.45
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	4	0.45
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	13	0.45
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	7	0.45
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	7	0.45
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	16	0.45
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	16	0.45
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	14	0.45
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	15	0.45
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	14	0.45
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	11	0.45
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	15	0.45
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	3	0.45
(1,1189)	1:138:A:ALA:HB3	1:141:A:ASP:H	14	0.45
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	7	0.45
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	7	0.45
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	13	0.45
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	3	0.45
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	10	0.45
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	10	0.45
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	18	0.45
(1,1093)	1:132:A:VAL:HA	1:135:A:ILE:HB	7	0.45
(1,1064)	1:126:A:THR:HA	1:126:A:THR:HG23	20	0.45
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	8	0.45
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	15	0.45
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	12	0.45
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	12	0.45
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	18	0.45
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	16	0.45
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	1	0.45
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	1	0.45
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	8	0.45
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	10	0.45
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	10	0.45
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	8	0.45
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	19	0.45
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	13	0.45
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	2	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB2	5	0.45
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB3	5	0.45
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB2	5	0.45
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB3	5	0.45
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	20	0.45
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	7	0.45
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	8	0.45
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	1	0.45
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	6	0.45
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	17	0.45
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	17	0.45
(1,694)	1:74:A:ILE:HG12	1:81:A:ASP:H	8	0.45
(1,694)	1:74:A:ILE:HG13	1:81:A:ASP:H	8	0.45
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	12	0.45
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	16	0.45
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	2	0.45
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	4	0.45
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	10	0.45
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	11	0.45
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	13	0.45
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	14	0.45
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	20	0.45
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	11	0.45
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	7	0.45
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	16	0.45
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	5	0.45
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	5	0.45
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	19	0.45
(1,478)	1:58:A:VAL:HA	1:58:A:VAL:HG23	2	0.45
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	4	0.45
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	4	0.45
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	4	0.45
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	4	0.45
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	8	0.45
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	8	0.45
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	16	0.45
(1,336)	1:38:A:VAL:HB	1:39:A:VAL:H	17	0.45
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	17	0.45
(1,305)	1:31:A:ILE:HG23	1:57:A:SER:HA	14	0.45
(1,291)	1:30:A:GLU:HB2	1:31:A:ILE:H	11	0.45
(1,291)	1:30:A:GLU:HB3	1:31:A:ILE:H	11	0.45
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	12	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	10	0.45
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	10	0.45
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	2	0.45
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	5	0.45
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	5	0.45
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	18	0.45
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	18	0.45
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	20	0.45
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	20	0.45
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	16	0.45
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	16	0.45
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	19	0.45
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	19	0.45
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	10	0.45
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	10	0.45
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	19	0.45
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	1	0.45
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	10	0.45
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	4	0.45
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	4	0.45
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	15	0.45
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	15	0.45
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	15	0.45
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	15	0.45
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	13	0.45
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	13	0.44
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	19	0.44
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	20	0.44
(2,37)	1:113:A:ILE:O	1:117:A:VAL:H	8	0.44
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	12	0.44
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	17	0.44
(1,2124)	1:236:A:LEU:HD13	1:237:A:GLU:H	7	0.44
(1,2093)	1:231:A:LYS:HG3	1:232:A:GLY:H	7	0.44
(1,2093)	1:231:A:LYS:HG2	1:232:A:GLY:H	7	0.44
(1,2093)	1:231:A:LYS:HG3	1:232:A:GLY:H	7	0.44
(1,2090)	1:231:A:LYS:HB2	1:236:A:LEU:HD23	1	0.44
(1,2090)	1:231:A:LYS:HB3	1:236:A:LEU:HD23	1	0.44
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	2	0.44
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	2	0.44
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	8	0.44
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	8	0.44
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	1	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	3	0.44
(1,1972)	1:225:A:LEU:HB2	1:228:A:LYS:HE2	20	0.44
(1,1972)	1:225:A:LEU:HB2	1:228:A:LYS:HE3	20	0.44
(1,1972)	1:225:A:LEU:HB3	1:228:A:LYS:HE2	20	0.44
(1,1972)	1:225:A:LEU:HB3	1:228:A:LYS:HE3	20	0.44
(1,1968)	1:225:A:LEU:HA	1:228:A:LYS:HE2	20	0.44
(1,1968)	1:225:A:LEU:HA	1:228:A:LYS:HE3	20	0.44
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	10	0.44
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	10	0.44
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	20	0.44
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB2	4	0.44
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB3	4	0.44
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB2	4	0.44
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB3	4	0.44
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	3	0.44
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	3	0.44
(1,1901)	1:219:A:PHE:H	1:222:A:ILE:H	11	0.44
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	5	0.44
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	7	0.44
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	11	0.44
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	15	0.44
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	17	0.44
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	16	0.44
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	3	0.44
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	18	0.44
(1,1857)	1:208:A:LEU:H	1:208:A:LEU:HD13	8	0.44
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	18	0.44
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	19	0.44
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	19	0.44
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	19	0.44
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	19	0.44
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	9	0.44
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	12	0.44
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	8	0.44
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	4	0.44
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	12	0.44
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	18	0.44
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	18	0.44
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	17	0.44
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	17	0.44
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	8	0.44
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	20	0.44
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	2	0.44
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	9	0.44
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	20	0.44
(1,1647)	1:190:A:GLU:H	1:192:A:LEU:H	20	0.44
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	10	0.44
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	10	0.44
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	10	0.44
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	10	0.44
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	2	0.44
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	5	0.44
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	10	0.44
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	10	0.44
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	11	0.44
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	18	0.44
(1,1489)	1:178:A:PHE:H	1:211:A:VAL:HA	4	0.44
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	18	0.44
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	18	0.44
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	20	0.44
(1,1414)	1:171:A:ARG:H	1:172:A:ALA:HA	20	0.44
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG2	18	0.44
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG3	18	0.44
(1,1355)	1:163:A:LEU:H	1:166:A:LYS:H	13	0.44
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	8	0.44
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	8	0.44
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	10	0.44
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB2	11	0.44
(1,1276)	1:155:A:GLN:HB2	1:158:A:GLU:HB3	11	0.44
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB2	11	0.44
(1,1276)	1:155:A:GLN:HB3	1:158:A:GLU:HB3	11	0.44
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	12	0.44
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	13	0.44
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	3	0.44
(1,1226)	1:145:A:SER:HA	1:146:A:VAL:H	14	0.44
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	5	0.44
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	5	0.44
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	5	0.44
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	5	0.44
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	15	0.44
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	6	0.44
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	6	0.44
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB2	5	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1128)	1:133:A:ILE:HG23	1:136:A:GLU:HB3	5	0.44
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	13	0.44
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	12	0.44
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	10	0.44
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	16	0.44
(1,1077)	1:130:A:TYR:H	1:131:A:THR:HA	8	0.44
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	18	0.44
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	18	0.44
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	1	0.44
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	8	0.44
(1,999)	1:116:A:ILE:H	1:132:A:VAL:HG23	13	0.44
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	13	0.44
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	13	0.44
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	5	0.44
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	5	0.44
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	5	0.44
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	5	0.44
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG13	4	0.44
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG23	4	0.44
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	14	0.44
(1,915)	1:92:A:LYS:HB2	1:93:A:GLY:H	18	0.44
(1,915)	1:92:A:LYS:HB3	1:93:A:GLY:H	18	0.44
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	20	0.44
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	20	0.44
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	6	0.44
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	1	0.44
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	5	0.44
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	20	0.44
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	20	0.44
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	6	0.44
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	6	0.44
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	12	0.44
(1,736)	1:79:A:THR:HA	1:79:A:THR:HG23	12	0.44
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	13	0.44
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	2	0.44
(1,703)	1:74:A:ILE:HD13	1:79:A:THR:HA	10	0.44
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	17	0.44
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	17	0.44
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	1	0.44
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	18	0.44
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	4	0.44
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	7	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	6	0.44
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	5	0.44
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	12	0.44
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	15	0.44
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	17	0.44
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG2	6	0.44
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG3	6	0.44
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG2	6	0.44
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG3	6	0.44
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	4	0.44
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	4	0.44
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB2	20	0.44
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB3	20	0.44
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	9	0.44
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	10	0.44
(1,475)	1:58:A:VAL:H	1:58:A:VAL:HB	5	0.44
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	4	0.44
(1,463)	1:55:A:THR:H	1:57:A:SER:H	20	0.44
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	7	0.44
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	7	0.44
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	9	0.44
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	9	0.44
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	5	0.44
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	8	0.44
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	8	0.44
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	8	0.44
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	8	0.44
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	5	0.44
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	5	0.44
(1,329)	1:34:A:TYR:H	1:52:A:VAL:HG23	2	0.44
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	18	0.44
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	8	0.44
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	5	0.44
(1,291)	1:30:A:GLU:HB2	1:31:A:ILE:H	18	0.44
(1,291)	1:30:A:GLU:HB3	1:31:A:ILE:H	18	0.44
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	8	0.44
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	11	0.44
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	17	0.44
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	13	0.44
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	12	0.44
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	12	0.44
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	14	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	14	0.44
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	14	0.44
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	14	0.44
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD2	10	0.44
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD3	10	0.44
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	18	0.44
(1,157)	1:20:A:VAL:HG23	1:96:A:GLN:H	20	0.44
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	3	0.44
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	20	0.44
(1,116)	1:19:A:VAL:H	1:19:A:VAL:HG23	16	0.44
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	11	0.44
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	4	0.44
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	4	0.44
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	19	0.44
(1,46)	1:12:A:ILE:HG12	1:13:A:ARG:H	20	0.44
(1,46)	1:12:A:ILE:HG13	1:13:A:ARG:H	20	0.44
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	4	0.44
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	7	0.44
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	1	0.44
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	1	0.44
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	1	0.44
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	13	0.43
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	4	0.43
(1,2195)	1:248:A:ASP:H	1:249:A:GLU:HA	3	0.43
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	11	0.43
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	11	0.43
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	12	0.43
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	7	0.43
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	7	0.43
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	10	0.43
(1,2016)	1:226:A:ILE:HG23	1:231:A:LYS:HA	4	0.43
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	17	0.43
(1,2010)	1:226:A:ILE:HG23	1:227:A:LYS:H	11	0.43
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG2	5	0.43
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG3	5	0.43
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	1	0.43
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	1	0.43
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	9	0.43
(1,1882)	1:211:A:VAL:HG23	1:212:A:CYS:H	3	0.43
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	15	0.43
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	14	0.43
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	8	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	20	0.43
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	8	0.43
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB2	6	0.43
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB3	6	0.43
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	4	0.43
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	10	0.43
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	17	0.43
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	20	0.43
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	16	0.43
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	5	0.43
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	15	0.43
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	15	0.43
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	12	0.43
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	12	0.43
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	12	0.43
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	12	0.43
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	9	0.43
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	9	0.43
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	10	0.43
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	10	0.43
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	11	0.43
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	11	0.43
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	12	0.43
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	5	0.43
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	4	0.43
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	12	0.43
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	16	0.43
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	7	0.43
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	17	0.43
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	18	0.43
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	5	0.43
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB2	6	0.43
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB3	6	0.43
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB2	6	0.43
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB3	6	0.43
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	18	0.43
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	15	0.43
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	15	0.43
(1,1443)	1:175:A:ARG:HG2	1:211:A:VAL:HG13	18	0.43
(1,1443)	1:175:A:ARG:HG3	1:211:A:VAL:HG13	18	0.43
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	16	0.43
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	16	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	1	0.43
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	3	0.43
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE2	3	0.43
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE3	3	0.43
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE2	3	0.43
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE3	3	0.43
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	20	0.43
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	6	0.43
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	11	0.43
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	13	0.43
(1,1211)	1:142:A:ILE:HA	1:142:A:ILE:HD13	16	0.43
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	19	0.43
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	2	0.43
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	19	0.43
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	6	0.43
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	9	0.43
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	19	0.43
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	3	0.43
(1,992)	1:115:A:THR:HA	1:118:A:ALA:HB3	3	0.43
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	10	0.43
(1,983)	1:114:A:ALA:HA	1:116:A:ILE:H	5	0.43
(1,973)	1:111:A:ARG:HB2	1:114:A:ALA:H	3	0.43
(1,973)	1:111:A:ARG:HB3	1:114:A:ALA:H	3	0.43
(1,896)	1:90:A:LEU:HD13	1:95:A:VAL:HG23	8	0.43
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG13	8	0.43
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG23	8	0.43
(1,896)	1:90:A:LEU:HD13	1:95:A:VAL:HG23	16	0.43
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG13	16	0.43
(1,896)	1:90:A:LEU:HD23	1:95:A:VAL:HG23	16	0.43
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	10	0.43
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	1	0.43
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	1	0.43
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	16	0.43
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	16	0.43
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	8	0.43
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	19	0.43
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	4	0.43
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	17	0.43
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	14	0.43
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	14	0.43
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	4	0.43
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	14	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	13	0.43
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	6	0.43
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	14	0.43
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	19	0.43
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	5	0.43
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	4	0.43
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	4	0.43
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	4	0.43
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	4	0.43
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	1	0.43
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	2	0.43
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	2	0.43
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG2	18	0.43
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG3	18	0.43
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG2	18	0.43
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG3	18	0.43
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	3	0.43
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	3	0.43
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	6	0.43
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	8	0.43
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	4	0.43
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	16	0.43
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	16	0.43
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	4	0.43
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	4	0.43
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	3	0.43
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	13	0.43
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	1	0.43
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	17	0.43
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	17	0.43
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	13	0.43
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	13	0.43
(1,455)	1:54:A:GLN:HA	1:55:A:THR:HG23	15	0.43
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	7	0.43
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	10	0.43
(1,385)	1:45:A:VAL:HA	1:45:A:VAL:HG23	6	0.43
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	8	0.43
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	12	0.43
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	14	0.43
(1,332)	1:34:A:TYR:H	1:54:A:GLN:H	10	0.43
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	13	0.43
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	13	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	2	0.43
(1,261)	1:28:A:ARG:H	1:60:A:VAL:HA	12	0.43
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	16	0.43
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	16	0.43
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	10	0.43
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	10	0.43
(1,173)	1:21:A:ARG:HB2	1:89:A:ILE:HG23	20	0.43
(1,173)	1:21:A:ARG:HB3	1:89:A:ILE:HG23	20	0.43
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	6	0.43
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	6	0.43
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	1	0.43
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	13	0.43
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	9	0.43
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	3	0.43
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	2	0.43
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	2	0.43
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	1	0.43
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	3	0.43
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	3	0.43
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	18	0.43
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	4	0.42
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	4	0.42
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	16	0.42
(1,2225)	1:251:A:PHE:HB2	1:252:A:GLU:HG2	8	0.42
(1,2225)	1:251:A:PHE:HB2	1:252:A:GLU:HG3	8	0.42
(1,2225)	1:251:A:PHE:HB3	1:252:A:GLU:HG2	8	0.42
(1,2225)	1:251:A:PHE:HB3	1:252:A:GLU:HG3	8	0.42
(1,2208)	1:249:A:GLU:HG2	1:250:A:LYS:H	15	0.42
(1,2208)	1:249:A:GLU:HG3	1:250:A:LYS:H	15	0.42
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	10	0.42
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	15	0.42
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	15	0.42
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	15	0.42
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	6	0.42
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	6	0.42
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	18	0.42
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	19	0.42
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	15	0.42
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	14	0.42
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	14	0.42
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	5	0.42
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	5	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	12	0.42
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	12	0.42
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	1	0.42
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	19	0.42
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	3	0.42
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	19	0.42
(1,1834)	1:204:A:TYR:H	1:208:A:LEU:HD13	10	0.42
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	14	0.42
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	19	0.42
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	8	0.42
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	8	0.42
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	15	0.42
(1,1751)	1:199:A:ILE:HG23	1:200:A:GLU:H	11	0.42
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	7	0.42
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	3	0.42
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG12	6	0.42
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG13	6	0.42
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG12	6	0.42
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG13	6	0.42
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	16	0.42
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	16	0.42
(1,1692)	1:193:A:LYS:HE2	1:198:A:VAL:HB	9	0.42
(1,1692)	1:193:A:LYS:HE3	1:198:A:VAL:HB	9	0.42
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	6	0.42
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	6	0.42
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	4	0.42
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	4	0.42
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	4	0.42
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	14	0.42
(1,1587)	1:187:A:LYS:H	1:188:A:LEU:HG	3	0.42
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	20	0.42
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	20	0.42
(1,1576)	1:186:A:LYS:HA	1:189:A:LYS:H	8	0.42
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	1	0.42
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	12	0.42
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	12	0.42
(1,1461)	1:176:A:LEU:HG	1:236:A:LEU:HD13	13	0.42
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	1	0.42
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	7	0.42
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	7	0.42
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	13	0.42
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	13	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1415)	1:171:A:ARG:HA	1:172:A:ALA:H	3	0.42
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	17	0.42
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	12	0.42
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	7	0.42
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	10	0.42
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	3	0.42
(1,1349)	1:162:A:GLN:HG2	1:163:A:LEU:HA	3	0.42
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	3	0.42
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	20	0.42
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	20	0.42
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	17	0.42
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	17	0.42
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	18	0.42
(1,1209)	1:142:A:ILE:H	1:143:A:HIS:H	16	0.42
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	3	0.42
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	3	0.42
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	2	0.42
(1,1164)	1:137:A:ARG:HA	1:137:A:ARG:HG2	14	0.42
(1,1164)	1:137:A:ARG:HA	1:137:A:ARG:HG3	14	0.42
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	1	0.42
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	5	0.42
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	10	0.42
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	1	0.42
(1,1077)	1:130:A:TYR:H	1:131:A:THR:HA	3	0.42
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	13	0.42
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	6	0.42
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	5	0.42
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	5	0.42
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	1	0.42
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	1	0.42
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	12	0.42
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	12	0.42
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	11	0.42
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	6	0.42
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	4	0.42
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	15	0.42
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	18	0.42
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	11	0.42
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	12	0.42
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	12	0.42
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	12	0.42
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	12	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	5	0.42
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	16	0.42
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	16	0.42
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	7	0.42
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	4	0.42
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	19	0.42
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	3	0.42
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	11	0.42
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	13	0.42
(1,683)	1:74:A:ILE:HA	1:74:A:ILE:HG23	3	0.42
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	4	0.42
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	4	0.42
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	12	0.42
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	1	0.42
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG2	10	0.42
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG3	10	0.42
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG2	10	0.42
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG3	10	0.42
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	2	0.42
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	13	0.42
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	13	0.42
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	2	0.42
(1,528)	1:61:A:ASN:H	1:66:A:GLN:HG2	17	0.42
(1,528)	1:61:A:ASN:H	1:66:A:GLN:HG3	17	0.42
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	7	0.42
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	7	0.42
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	7	0.42
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	7	0.42
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	14	0.42
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	1	0.42
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	15	0.42
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	15	0.42
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	3	0.42
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	3	0.42
(1,419)	1:50:A:ASP:H	1:53:A:LEU:H	9	0.42
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	8	0.42
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	7	0.42
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	19	0.42
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	17	0.42
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	8	0.42
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	8	0.42
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	20	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	20	0.42
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	10	0.42
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	10	0.42
(1,172)	1:21:A:ARG:HB2	1:30:A:GLU:HA	16	0.42
(1,172)	1:21:A:ARG:HB3	1:30:A:GLU:HA	16	0.42
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	8	0.42
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	8	0.42
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	1	0.42
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	1	0.42
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	10	0.42
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	10	0.42
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	11	0.42
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	10	0.42
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	18	0.42
(1,99)	1:17:A:VAL:HG23	1:18:A:ALA:H	6	0.42
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	2	0.42
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	4	0.42
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	4	0.42
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	19	0.41
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	14	0.41
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	7	0.41
(1,2223)	1:251:A:PHE:HB3	1:252:A:GLU:H	9	0.41
(1,2223)	1:251:A:PHE:HB2	1:252:A:GLU:H	9	0.41
(1,2223)	1:251:A:PHE:HB3	1:252:A:GLU:H	9	0.41
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	1	0.41
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	18	0.41
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	9	0.41
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	9	0.41
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	17	0.41
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	17	0.41
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	9	0.41
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	9	0.41
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	5	0.41
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	11	0.41
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	9	0.41
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	14	0.41
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	15	0.41
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	14	0.41
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	12	0.41
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	12	0.41
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	15	0.41
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	16	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	10	0.41
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	6	0.41
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	9	0.41
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	14	0.41
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	5	0.41
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	16	0.41
(1,1798)	1:202:A:GLU:HA	1:248:A:ASP:H	19	0.41
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	12	0.41
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB2	20	0.41
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB3	20	0.41
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	7	0.41
(1,1770)	1:200:A:GLU:HB2	1:202:A:GLU:H	1	0.41
(1,1770)	1:200:A:GLU:HB3	1:202:A:GLU:H	1	0.41
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	3	0.41
(1,1713)	1:197:A:LYS:H	1:198:A:VAL:H	12	0.41
(1,1679)	1:192:A:LEU:HD23	1:198:A:VAL:H	19	0.41
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	5	0.41
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	5	0.41
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	14	0.41
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	14	0.41
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	18	0.41
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	3	0.41
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	8	0.41
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	8	0.41
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	11	0.41
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	5	0.41
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	20	0.41
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	10	0.41
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	1	0.41
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	15	0.41
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	11	0.41
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	16	0.41
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	6	0.41
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	2	0.41
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB2	13	0.41
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB3	13	0.41
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB2	13	0.41
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB3	13	0.41
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	13	0.41
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	13	0.41
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	19	0.41
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	19	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1414)	1:171:A:ARG:H	1:172:A:ALA:HA	1	0.41
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	4	0.41
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	4	0.41
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG2	7	0.41
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG3	7	0.41
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	20	0.41
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	20	0.41
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	20	0.41
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	20	0.41
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	12	0.41
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	12	0.41
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	16	0.41
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	16	0.41
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	2	0.41
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	2	0.41
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	13	0.41
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	13	0.41
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	13	0.41
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB2	14	0.41
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB3	14	0.41
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	20	0.41
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	20	0.41
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	20	0.41
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	14	0.41
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	10	0.41
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	12	0.41
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	4	0.41
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	4	0.41
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	4	0.41
(1,1079)	1:131:A:THR:H	1:131:A:THR:HG23	20	0.41
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	20	0.41
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	8	0.41
(1,1000)	1:116:A:ILE:HB	1:117:A:VAL:HB	15	0.41
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	19	0.41
(1,980)	1:112:A:ASP:HA	1:115:A:THR:H	14	0.41
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	15	0.41
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	4	0.41
(1,951)	1:108:A:GLN:HA	1:111:A:ARG:H	17	0.41
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	7	0.41
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	7	0.41
(1,940)	1:95:A:VAL:HG13	1:97:A:VAL:H	11	0.41
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	18	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	5	0.41
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	5	0.41
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	5	0.41
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	5	0.41
(1,902)	1:91:A:THR:HA	1:91:A:THR:HG23	6	0.41
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	4	0.41
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	4	0.41
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	6	0.41
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	8	0.41
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	10	0.41
(1,861)	1:89:A:ILE:H	1:89:A:ILE:HD13	6	0.41
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	20	0.41
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	20	0.41
(1,835)	1:87:A:LYS:HB2	1:88:A:GLN:H	5	0.41
(1,835)	1:87:A:LYS:HB3	1:88:A:GLN:H	5	0.41
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	17	0.41
(1,724)	1:76:A:ALA:HB3	1:77:A:PHE:H	12	0.41
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	10	0.41
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	10	0.41
(1,709)	1:75:A:SER:H	1:78:A:GLY:H	2	0.41
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	3	0.41
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	19	0.41
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	17	0.41
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	15	0.41
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	15	0.41
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	9	0.41
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	17	0.41
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	19	0.41
(1,644)	1:72:A:ASP:HA	1:74:A:ILE:HG23	17	0.41
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	8	0.41
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG2	20	0.41
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG3	20	0.41
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG2	20	0.41
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG3	20	0.41
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	18	0.41
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	14	0.41
(1,532)	1:61:A:ASN:HA	1:64:A:LYS:H	7	0.41
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	1	0.41
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	16	0.41
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	16	0.41
(1,483)	1:58:A:VAL:HG13	1:73:A:LEU:HG	4	0.41
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	2	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	4	0.41
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	14	0.41
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	13	0.41
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	7	0.41
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	15	0.41
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	15	0.41
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	11	0.41
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	11	0.41
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	11	0.41
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	11	0.41
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	20	0.41
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	15	0.41
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	13	0.41
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	4	0.41
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	4	0.41
(1,301)	1:31:A:ILE:H	1:89:A:ILE:HD13	9	0.41
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	6	0.41
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	9	0.41
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	19	0.41
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	19	0.41
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	20	0.41
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	20	0.41
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	20	0.41
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	20	0.41
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	6	0.41
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	18	0.41
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	8	0.41
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	8	0.41
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	5	0.41
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	12	0.41
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	12	0.41
(1,122)	1:19:A:VAL:HA	1:19:A:VAL:HG23	11	0.41
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	1	0.41
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	1	0.41
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	16	0.41
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	15	0.41
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	2	0.41
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	2	0.41
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	19	0.4
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	10	0.4
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	6	0.4
(2,16)	1:61:A:ASN:H	1:66:A:GLN:O	17	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	13	0.4
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	13	0.4
(1,2183)	1:246:A:GLU:HA	1:246:A:GLU:HG3	17	0.4
(1,2183)	1:246:A:GLU:HA	1:246:A:GLU:HG2	17	0.4
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA2	14	0.4
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA3	14	0.4
(1,2164)	1:244:A:VAL:HA	1:244:A:VAL:HG13	4	0.4
(1,2164)	1:244:A:VAL:HA	1:244:A:VAL:HG23	4	0.4
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	18	0.4
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	6	0.4
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	6	0.4
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	2	0.4
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	2	0.4
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	11	0.4
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	11	0.4
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	9	0.4
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	9	0.4
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	17	0.4
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	1	0.4
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	11	0.4
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	2	0.4
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	2	0.4
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	18	0.4
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG12	17	0.4
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG13	17	0.4
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	8	0.4
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	16	0.4
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	16	0.4
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	1	0.4
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	14	0.4
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	20	0.4
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	20	0.4
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	12	0.4
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	15	0.4
(1,1807)	1:203:A:ASP:H	1:204:A:TYR:H	7	0.4
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	13	0.4
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	13	0.4
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	9	0.4
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	18	0.4
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	15	0.4
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	15	0.4
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	15	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	15	0.4
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	9	0.4
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	1	0.4
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	10	0.4
(1,1727)	1:198:A:VAL:HB	1:202:A:GLU:H	13	0.4
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	4	0.4
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	4	0.4
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	12	0.4
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	12	0.4
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	2	0.4
(1,1688)	1:193:A:LYS:HB2	1:198:A:VAL:HG23	2	0.4
(1,1688)	1:193:A:LYS:HB3	1:198:A:VAL:HG23	2	0.4
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	18	0.4
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	18	0.4
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	10	0.4
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	14	0.4
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	9	0.4
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	18	0.4
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	12	0.4
(1,1542)	1:182:A:VAL:HG13	1:183:A:ASN:HA	10	0.4
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	1	0.4
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	2	0.4
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	2	0.4
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	7	0.4
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	10	0.4
(1,1458)	1:176:A:LEU:HB2	1:237:A:GLU:H	8	0.4
(1,1458)	1:176:A:LEU:HB3	1:237:A:GLU:H	8	0.4
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	18	0.4
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	3	0.4
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	3	0.4
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	11	0.4
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	11	0.4
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	4	0.4
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	2	0.4
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	20	0.4
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	9	0.4
(1,1400)	1:169:A:ILE:H	1:170:A:GLU:HA	6	0.4
(1,1383)	1:165:A:GLU:HB2	1:167:A:MET:H	13	0.4
(1,1383)	1:165:A:GLU:HB3	1:167:A:MET:H	13	0.4
(1,1382)	1:165:A:GLU:HB2	1:166:A:LYS:H	13	0.4
(1,1382)	1:165:A:GLU:HB3	1:166:A:LYS:H	13	0.4
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	11	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	8	0.4
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	8	0.4
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	8	0.4
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	8	0.4
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	1	0.4
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	1	0.4
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	3	0.4
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	13	0.4
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	2	0.4
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	1	0.4
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	10	0.4
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	18	0.4
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	8	0.4
(1,1079)	1:131:A:THR:H	1:131:A:THR:HG23	6	0.4
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	4	0.4
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	12	0.4
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	4	0.4
(1,1024)	1:118:A:ALA:HB3	1:132:A:VAL:H	6	0.4
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	9	0.4
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	10	0.4
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	10	0.4
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	15	0.4
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	10	0.4
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	10	0.4
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA2	15	0.4
(1,881)	1:89:A:ILE:HG23	1:93:A:GLY:HA3	15	0.4
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	10	0.4
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	10	0.4
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	10	0.4
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	10	0.4
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	19	0.4
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	19	0.4
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	19	0.4
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	19	0.4
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	7	0.4
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	4	0.4
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	5	0.4
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	16	0.4
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	11	0.4
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	11	0.4
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	20	0.4
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	6	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	4	0.4
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	14	0.4
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	14	0.4
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	14	0.4
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	16	0.4
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG2	12	0.4
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG3	12	0.4
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG2	12	0.4
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG3	12	0.4
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	7	0.4
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	3	0.4
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	3	0.4
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	3	0.4
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	3	0.4
(1,601)	1:69:A:LYS:HG2	1:70:A:LYS:H	18	0.4
(1,601)	1:69:A:LYS:HG3	1:70:A:LYS:H	18	0.4
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	14	0.4
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	4	0.4
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	4	0.4
(1,519)	1:60:A:VAL:HG23	1:61:A:ASN:H	1	0.4
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	18	0.4
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	16	0.4
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	8	0.4
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	19	0.4
(1,463)	1:55:A:THR:H	1:57:A:SER:H	17	0.4
(1,439)	1:52:A:VAL:HG23	1:53:A:LEU:H	8	0.4
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	4	0.4
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	4	0.4
(1,379)	1:44:A:GLY:HA2	1:45:A:VAL:H	7	0.4
(1,379)	1:44:A:GLY:HA3	1:45:A:VAL:H	7	0.4
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	9	0.4
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	18	0.4
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	18	0.4
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	14	0.4
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	19	0.4
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	5	0.4
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	12	0.4
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	16	0.4
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	20	0.4
(1,252)	1:27:A:LYS:HB2	1:28:A:ARG:H	3	0.4
(1,252)	1:27:A:LYS:HB3	1:28:A:ARG:H	3	0.4
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	3	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	3	0.4
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD2	16	0.4
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD3	16	0.4
(1,179)	1:22:A:MET:H	1:23:A:LYS:HA	2	0.4
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	1	0.4
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	1	0.4
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	12	0.4
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	12	0.4
(1,119)	1:19:A:VAL:H	1:96:A:GLN:H	18	0.4
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	6	0.4
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	17	0.4
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	13	0.4
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	13	0.4
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	9	0.4
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	9	0.4
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	13	0.4
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	17	0.4
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	6	0.39
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	15	0.39
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	16	0.39
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	19	0.39
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	6	0.39
(1,2208)	1:249:A:GLU:HG2	1:250:A:LYS:H	14	0.39
(1,2208)	1:249:A:GLU:HG3	1:250:A:LYS:H	14	0.39
(1,2191)	1:247:A:GLY:HA2	1:249:A:GLU:H	3	0.39
(1,2191)	1:247:A:GLY:HA3	1:249:A:GLU:H	3	0.39
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	13	0.39
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD2	5	0.39
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD3	5	0.39
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	2	0.39
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	11	0.39
(1,2062)	1:229:A:GLU:H	1:231:A:LYS:H	11	0.39
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	8	0.39
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	20	0.39
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	6	0.39
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	8	0.39
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	8	0.39
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	10	0.39
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	15	0.39
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	15	0.39
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	18	0.39
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	18	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB2	20	0.39
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB3	20	0.39
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB2	20	0.39
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB3	20	0.39
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	2	0.39
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	2	0.39
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	16	0.39
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	9	0.39
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	4	0.39
(1,1891)	1:216:A:PRO:HA	1:217:A:GLY:H	18	0.39
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	4	0.39
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	1	0.39
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	8	0.39
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	8	0.39
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	8	0.39
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	20	0.39
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	13	0.39
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	12	0.39
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	1	0.39
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	12	0.39
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	13	0.39
(1,1728)	1:198:A:VAL:HB	1:210:A:ILE:HA	11	0.39
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	11	0.39
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	16	0.39
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE2	6	0.39
(1,1705)	1:195:A:LEU:HD23	1:197:A:LYS:HE3	6	0.39
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	6	0.39
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	6	0.39
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	3	0.39
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	7	0.39
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	2	0.39
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	8	0.39
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	9	0.39
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	15	0.39
(1,1488)	1:178:A:PHE:H	1:211:A:VAL:H	12	0.39
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	18	0.39
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	17	0.39
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	17	0.39
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	17	0.39
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	10	0.39
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	12	0.39
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	12	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1415)	1:171:A:ARG:HA	1:172:A:ALA:H	11	0.39
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	7	0.39
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	1	0.39
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	1	0.39
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	11	0.39
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	11	0.39
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	17	0.39
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	9	0.39
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	9	0.39
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	11	0.39
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	11	0.39
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	1	0.39
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	1	0.39
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	19	0.39
(1,1284)	1:156:A:ALA:H	1:157:A:LEU:HB2	15	0.39
(1,1284)	1:156:A:ALA:H	1:157:A:LEU:HB3	15	0.39
(1,1277)	1:155:A:GLN:HB2	1:159:A:VAL:H	15	0.39
(1,1277)	1:155:A:GLN:HB3	1:159:A:VAL:H	15	0.39
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	13	0.39
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	13	0.39
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	14	0.39
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	10	0.39
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	10	0.39
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	4	0.39
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	12	0.39
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE2	11	0.39
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE3	11	0.39
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	5	0.39
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	5	0.39
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	1	0.39
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	1	0.39
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	10	0.39
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	10	0.39
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	10	0.39
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	17	0.39
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	17	0.39
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	18	0.39
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	18	0.39
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	5	0.39
(1,1118)	1:133:A:ILE:HA	1:136:A:GLU:HB2	1	0.39
(1,1118)	1:133:A:ILE:HA	1:136:A:GLU:HB3	1	0.39
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	3	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1079)	1:131:A:THR:H	1:131:A:THR:HG23	17	0.39
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	10	0.39
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	7	0.39
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	6	0.39
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	6	0.39
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	16	0.39
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	16	0.39
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	10	0.39
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	10	0.39
(1,1036)	1:120:A:LYS:HA	1:120:A:LYS:HE2	4	0.39
(1,1036)	1:120:A:LYS:HA	1:120:A:LYS:HE3	4	0.39
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	7	0.39
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	9	0.39
(1,960)	1:109:A:MET:HB2	1:110:A:PHE:H	18	0.39
(1,960)	1:109:A:MET:HB3	1:110:A:PHE:H	18	0.39
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	16	0.39
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB2	8	0.39
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB3	8	0.39
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	13	0.39
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	9	0.39
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	2	0.39
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	2	0.39
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	4	0.39
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG13	2	0.39
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG23	2	0.39
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	10	0.39
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	20	0.39
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	12	0.39
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	2	0.39
(1,709)	1:75:A:SER:H	1:78:A:GLY:H	16	0.39
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	2	0.39
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	6	0.39
(1,690)	1:74:A:ILE:HB	1:74:A:ILE:HD13	5	0.39
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	15	0.39
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	10	0.39
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	1	0.39
(1,646)	1:72:A:ASP:HA	1:76:A:ALA:H	9	0.39
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	5	0.39
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	15	0.39
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	15	0.39
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	15	0.39
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	15	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	7	0.39
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	7	0.39
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	5	0.39
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	16	0.39
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	16	0.39
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	7	0.39
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	12	0.39
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	11	0.39
(1,478)	1:58:A:VAL:HA	1:58:A:VAL:HG23	9	0.39
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	15	0.39
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	15	0.39
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	15	0.39
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	19	0.39
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	19	0.39
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	1	0.39
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	1	0.39
(1,385)	1:45:A:VAL:HA	1:45:A:VAL:HG23	2	0.39
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	11	0.39
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	13	0.39
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG2	11	0.39
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG3	11	0.39
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG2	11	0.39
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG3	11	0.39
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	14	0.39
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	14	0.39
(1,351)	1:39:A:VAL:H	1:40:A:GLY:H	17	0.39
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	11	0.39
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	8	0.39
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	13	0.39
(1,316)	1:32:A:ALA:HB3	1:55:A:THR:H	8	0.39
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	2	0.39
(1,277)	1:29:A:PHE:HB2	1:58:A:VAL:HG13	10	0.39
(1,277)	1:29:A:PHE:HB3	1:58:A:VAL:HG13	10	0.39
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	10	0.39
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	10	0.39
(1,261)	1:28:A:ARG:H	1:60:A:VAL:HA	3	0.39
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	16	0.39
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	16	0.39
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	12	0.39
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	12	0.39
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	12	0.39
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	12	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	13	0.39
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	13	0.39
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	13	0.39
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	13	0.39
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	5	0.39
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	5	0.39
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	10	0.39
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	10	0.39
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	17	0.39
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	17	0.39
(1,216)	1:23:A:LYS:H	1:29:A:PHE:H	2	0.39
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	6	0.39
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	6	0.39
(1,191)	1:22:A:MET:H	1:89:A:ILE:HD13	12	0.39
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG12	20	0.39
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG13	20	0.39
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	19	0.39
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	19	0.39
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	3	0.39
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	7	0.39
(1,74)	1:14:A:LEU:H	1:15:A:THR:H	19	0.39
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	15	0.39
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	15	0.39
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	8	0.39
(1,50)	1:12:A:ILE:HG12	1:54:A:GLN:HA	4	0.39
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	13	0.39
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	13	0.39
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	13	0.39
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	13	0.39
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	7	0.39
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	7	0.39
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	7	0.39
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	7	0.39
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	9	0.39
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	9	0.39
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	11	0.39
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	11	0.39
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	20	0.39
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	20	0.38
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	6	0.38
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	10	0.38
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	9	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	12	0.38
(1,2169)	1:244:A:VAL:HG13	1:245:A:GLU:H	16	0.38
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	17	0.38
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	17	0.38
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	4	0.38
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG2	7	0.38
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG3	7	0.38
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	11	0.38
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	11	0.38
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD13	15	0.38
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD23	15	0.38
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	12	0.38
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	12	0.38
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	4	0.38
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	16	0.38
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	1	0.38
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	7	0.38
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	7	0.38
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	17	0.38
(1,2045)	1:228:A:LYS:H	1:229:A:GLU:HB2	19	0.38
(1,2045)	1:228:A:LYS:H	1:229:A:GLU:HB3	19	0.38
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	14	0.38
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	14	0.38
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	4	0.38
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	4	0.38
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	5	0.38
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	7	0.38
(1,1992)	1:226:A:ILE:H	1:229:A:GLU:H	12	0.38
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	16	0.38
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	16	0.38
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	16	0.38
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	16	0.38
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	1	0.38
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	18	0.38
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	15	0.38
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	9	0.38
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	2	0.38
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	14	0.38
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	18	0.38
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	18	0.38
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	18	0.38
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	18	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	15	0.38
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	13	0.38
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	17	0.38
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	11	0.38
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	11	0.38
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	16	0.38
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG2	19	0.38
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG3	19	0.38
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG2	19	0.38
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG3	19	0.38
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	20	0.38
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	14	0.38
(1,1591)	1:187:A:LYS:HB2	1:189:A:LYS:H	17	0.38
(1,1591)	1:187:A:LYS:HB3	1:189:A:LYS:H	17	0.38
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	20	0.38
(1,1576)	1:186:A:LYS:HA	1:189:A:LYS:H	1	0.38
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	8	0.38
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	14	0.38
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	3	0.38
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	7	0.38
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	12	0.38
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	12	0.38
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	8	0.38
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	8	0.38
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	16	0.38
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	16	0.38
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	8	0.38
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	16	0.38
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	16	0.38
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	6	0.38
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	12	0.38
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	12	0.38
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	11	0.38
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	11	0.38
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	1	0.38
(1,1298)	1:158:A:GLU:H	1:160:A:ILE:H	10	0.38
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	5	0.38
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	5	0.38
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	14	0.38
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	14	0.38
(1,1255)	1:153:A:LYS:HA	1:153:A:LYS:HE2	20	0.38
(1,1255)	1:153:A:LYS:HA	1:153:A:LYS:HE3	20	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	3	0.38
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	11	0.38
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	4	0.38
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG2	20	0.38
(1,1129)	1:133:A:ILE:HG23	1:136:A:GLU:HG3	20	0.38
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	2	0.38
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	8	0.38
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	15	0.38
(1,1093)	1:132:A:VAL:HA	1:135:A:ILE:HB	15	0.38
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	12	0.38
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	1	0.38
(1,1046)	1:122:A:VAL:HA	1:122:A:VAL:HG13	5	0.38
(1,1046)	1:122:A:VAL:HA	1:122:A:VAL:HG23	5	0.38
(1,1046)	1:122:A:VAL:HA	1:122:A:VAL:HG13	6	0.38
(1,1046)	1:122:A:VAL:HA	1:122:A:VAL:HG23	6	0.38
(1,1046)	1:122:A:VAL:HA	1:122:A:VAL:HG13	19	0.38
(1,1046)	1:122:A:VAL:HA	1:122:A:VAL:HG23	19	0.38
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	14	0.38
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	13	0.38
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG2	15	0.38
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG3	15	0.38
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG2	15	0.38
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG3	15	0.38
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG2	7	0.38
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG3	7	0.38
(1,932)	1:95:A:VAL:HA	1:95:A:VAL:HG23	2	0.38
(1,901)	1:91:A:THR:H	1:93:A:GLY:H	14	0.38
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	16	0.38
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	2	0.38
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	19	0.38
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	19	0.38
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	17	0.38
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	17	0.38
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG2	5	0.38
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG3	5	0.38
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	17	0.38
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	17	0.38
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	3	0.38
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	1	0.38
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	13	0.38
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	5	0.38
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	20	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	1	0.38
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	2	0.38
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	10	0.38
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	2	0.38
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	4	0.38
(1,644)	1:72:A:ASP:HA	1:74:A:ILE:HG23	14	0.38
(1,640)	1:72:A:ASP:H	1:73:A:LEU:HA	1	0.38
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	8	0.38
(1,601)	1:69:A:LYS:HG2	1:70:A:LYS:H	2	0.38
(1,601)	1:69:A:LYS:HG3	1:70:A:LYS:H	2	0.38
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	9	0.38
(1,528)	1:61:A:ASN:H	1:66:A:GLN:HG2	1	0.38
(1,528)	1:61:A:ASN:H	1:66:A:GLN:HG3	1	0.38
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	16	0.38
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	16	0.38
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	13	0.38
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	13	0.38
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	20	0.38
(1,461)	1:54:A:GLN:HB2	1:55:A:THR:HG23	18	0.38
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	5	0.38
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	5	0.38
(1,414)	1:49:A:LEU:HA	1:52:A:VAL:HA	15	0.38
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB2	4	0.38
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB3	4	0.38
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	5	0.38
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	17	0.38
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	4	0.38
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	4	0.38
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	4	0.38
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	4	0.38
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	5	0.38
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	5	0.38
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD2	3	0.38
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD3	3	0.38
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD2	3	0.38
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD3	3	0.38
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	11	0.38
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	11	0.38
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	13	0.38
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	15	0.38
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	13	0.38
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	13	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	14	0.38
(1,155)	1:20:A:VAL:HG23	1:95:A:VAL:H	5	0.38
(1,153)	1:20:A:VAL:HG23	1:90:A:LEU:HD23	3	0.38
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	8	0.38
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	7	0.38
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	7	0.38
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG2	5	0.38
(1,54)	1:12:A:ILE:HG23	1:13:A:ARG:HG3	5	0.38
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	20	0.38
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	20	0.38
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	6	0.38
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	6	0.38
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	6	0.38
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	6	0.38
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	8	0.37
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	14	0.37
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	3	0.37
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB2	14	0.37
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB3	14	0.37
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB2	14	0.37
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB3	14	0.37
(1,2223)	1:251:A:PHE:HB3	1:252:A:GLU:H	14	0.37
(1,2223)	1:251:A:PHE:HB2	1:252:A:GLU:H	14	0.37
(1,2223)	1:251:A:PHE:HB3	1:252:A:GLU:H	14	0.37
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	3	0.37
(1,2098)	1:232:A:GLY:H	1:233:A:LYS:H	15	0.37
(1,2087)	1:231:A:LYS:HA	1:236:A:LEU:HD23	1	0.37
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	15	0.37
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	15	0.37
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	8	0.37
(1,2032)	1:227:A:LYS:HA	1:232:A:GLY:H	17	0.37
(1,2023)	1:227:A:LYS:H	1:228:A:LYS:HG2	19	0.37
(1,2023)	1:227:A:LYS:H	1:228:A:LYS:HG3	19	0.37
(1,2013)	1:226:A:ILE:HG23	1:229:A:GLU:H	7	0.37
(1,1979)	1:225:A:LEU:HD13	1:226:A:ILE:HA	14	0.37
(1,1958)	1:225:A:LEU:H	1:225:A:LEU:HG	15	0.37
(1,1919)	1:221:A:GLU:HA	1:224:A:GLU:H	18	0.37
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	10	0.37
(1,1887)	1:213:A:LEU:H	1:213:A:LEU:HD23	20	0.37
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	1	0.37
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	5	0.37
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	9	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	2	0.37
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	4	0.37
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	3	0.37
(1,1806)	1:202:A:GLU:HG2	1:248:A:ASP:H	13	0.37
(1,1806)	1:202:A:GLU:HG3	1:248:A:ASP:H	13	0.37
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	3	0.37
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	3	0.37
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	3	0.37
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	3	0.37
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	14	0.37
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	17	0.37
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	10	0.37
(1,1697)	1:194:A:PRO:HG2	1:195:A:LEU:HD23	17	0.37
(1,1697)	1:194:A:PRO:HG3	1:195:A:LEU:HD23	17	0.37
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	12	0.37
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	12	0.37
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	13	0.37
(1,1641)	1:189:A:LYS:HG2	1:208:A:LEU:HD13	6	0.37
(1,1641)	1:189:A:LYS:HG3	1:208:A:LEU:HD13	6	0.37
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	1	0.37
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	1	0.37
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	12	0.37
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	9	0.37
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	18	0.37
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	4	0.37
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	7	0.37
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	7	0.37
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD2	1	0.37
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD3	1	0.37
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB2	3	0.37
(1,1545)	1:182:A:VAL:HG13	1:208:A:LEU:HB3	3	0.37
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	14	0.37
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	19	0.37
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	5	0.37
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	11	0.37
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	11	0.37
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	19	0.37
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	19	0.37
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	16	0.37
(1,1419)	1:172:A:ALA:H	1:172:A:ALA:HB3	9	0.37
(1,1411)	1:170:A:GLU:HA	1:171:A:ARG:H	10	0.37
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	20	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	20	0.37
(1,1378)	1:165:A:GLU:H	1:166:A:LYS:H	1	0.37
(1,1378)	1:165:A:GLU:H	1:166:A:LYS:H	13	0.37
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	7	0.37
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	7	0.37
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	18	0.37
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	18	0.37
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	3	0.37
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	3	0.37
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	4	0.37
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	4	0.37
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	14	0.37
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	14	0.37
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	20	0.37
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	20	0.37
(1,1316)	1:160:A:ILE:H	1:161:A:LYS:HG2	11	0.37
(1,1316)	1:160:A:ILE:H	1:161:A:LYS:HG3	11	0.37
(1,1285)	1:156:A:ALA:H	1:157:A:LEU:HD23	19	0.37
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	12	0.37
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	12	0.37
(1,1226)	1:145:A:SER:HA	1:146:A:VAL:H	3	0.37
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	19	0.37
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	17	0.37
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	17	0.37
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	17	0.37
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	20	0.37
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	20	0.37
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	12	0.37
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	4	0.37
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	4	0.37
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	13	0.37
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	13	0.37
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	6	0.37
(1,974)	1:111:A:ARG:HB2	1:114:A:ALA:HB3	8	0.37
(1,974)	1:111:A:ARG:HB3	1:114:A:ALA:HB3	8	0.37
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	17	0.37
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	17	0.37
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	11	0.37
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	15	0.37
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	20	0.37
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	14	0.37
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	14	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	14	0.37
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	14	0.37
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	8	0.37
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	8	0.37
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	18	0.37
(1,835)	1:87:A:LYS:HB2	1:88:A:GLN:H	12	0.37
(1,835)	1:87:A:LYS:HB3	1:88:A:GLN:H	12	0.37
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	20	0.37
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	6	0.37
(1,754)	1:81:A:ASP:H	1:84:A:GLU:HB2	4	0.37
(1,754)	1:81:A:ASP:H	1:84:A:GLU:HB3	4	0.37
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	1	0.37
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	8	0.37
(1,714)	1:75:A:SER:HA	1:79:A:THR:H	19	0.37
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	7	0.37
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	20	0.37
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	13	0.37
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	13	0.37
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	2	0.37
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	9	0.37
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	18	0.37
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	1	0.37
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	18	0.37
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	10	0.37
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	5	0.37
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	10	0.37
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	10	0.37
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	14	0.37
(1,496)	1:59:A:PHE:HA	1:67:A:VAL:HB	6	0.37
(1,495)	1:59:A:PHE:HA	1:67:A:VAL:HA	1	0.37
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	16	0.37
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	17	0.37
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	7	0.37
(1,456)	1:54:A:GLN:HB3	1:55:A:THR:H	19	0.37
(1,456)	1:54:A:GLN:HB2	1:55:A:THR:H	19	0.37
(1,456)	1:54:A:GLN:HB3	1:55:A:THR:H	19	0.37
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	16	0.37
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	16	0.37
(1,379)	1:44:A:GLY:HA2	1:45:A:VAL:H	1	0.37
(1,379)	1:44:A:GLY:HA3	1:45:A:VAL:H	1	0.37
(1,363)	1:41:A:TRP:HA	1:46:A:GLU:HA	20	0.37
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	2	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,353)	1:39:A:VAL:HB	1:97:A:VAL:HG13	7	0.37
(1,327)	1:34:A:TYR:H	1:52:A:VAL:HA	3	0.37
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	1	0.37
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	1	0.37
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	1	0.37
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	1	0.37
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	3	0.37
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	18	0.37
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	18	0.37
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	18	0.37
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	18	0.37
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	14	0.37
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	14	0.37
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	2	0.37
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	2	0.37
(1,216)	1:23:A:LYS:H	1:29:A:PHE:H	14	0.37
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	9	0.37
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	9	0.37
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	20	0.37
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	4	0.37
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	4	0.37
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	2	0.37
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	4	0.37
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	4	0.37
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	3	0.37
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	3	0.37
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	5	0.37
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	10	0.37
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	10	0.37
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	17	0.37
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	14	0.37
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	5	0.36
(2,20)	1:70:A:LYS:O	1:74:A:ILE:H	7	0.36
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	19	0.36
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB2	17	0.36
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB3	17	0.36
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB2	17	0.36
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB3	17	0.36
(1,2169)	1:244:A:VAL:HG13	1:245:A:GLU:H	10	0.36
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	5	0.36
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	15	0.36
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	18	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	18	0.36
(1,2050)	1:228:A:LYS:HA	1:231:A:LYS:H	8	0.36
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	3	0.36
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	4	0.36
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	4	0.36
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	20	0.36
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	20	0.36
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	16	0.36
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	16	0.36
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB2	13	0.36
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB3	13	0.36
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	3	0.36
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	3	0.36
(1,1880)	1:211:A:VAL:HG13	1:239:A:LEU:H	15	0.36
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	12	0.36
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	12	0.36
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	16	0.36
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	16	0.36
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	12	0.36
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	18	0.36
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	4	0.36
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	16	0.36
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	16	0.36
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB2	12	0.36
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB3	12	0.36
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	18	0.36
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	5	0.36
(1,1770)	1:200:A:GLU:HB2	1:202:A:GLU:H	2	0.36
(1,1770)	1:200:A:GLU:HB3	1:202:A:GLU:H	2	0.36
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	15	0.36
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	6	0.36
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	16	0.36
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	16	0.36
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	15	0.36
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	11	0.36
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	11	0.36
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	15	0.36
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	14	0.36
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	8	0.36
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	10	0.36
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	3	0.36
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	3	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	3	0.36
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	3	0.36
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	3	0.36
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	6	0.36
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	15	0.36
(1,1593)	1:188:A:LEU:H	1:188:A:LEU:HD13	8	0.36
(1,1589)	1:187:A:LYS:HA	1:189:A:LYS:H	2	0.36
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	13	0.36
(1,1578)	1:186:A:LYS:HA	1:189:A:LYS:HG2	1	0.36
(1,1578)	1:186:A:LYS:HA	1:189:A:LYS:HG3	1	0.36
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	6	0.36
(1,1537)	1:182:A:VAL:HA	1:182:A:VAL:HG13	1	0.36
(1,1537)	1:182:A:VAL:HA	1:182:A:VAL:HG23	1	0.36
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	9	0.36
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	9	0.36
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	12	0.36
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	12	0.36
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	12	0.36
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	12	0.36
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	20	0.36
(1,1450)	1:176:A:LEU:H	1:213:A:LEU:HD23	11	0.36
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	14	0.36
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	14	0.36
(1,1443)	1:175:A:ARG:HG2	1:211:A:VAL:HG13	2	0.36
(1,1443)	1:175:A:ARG:HG3	1:211:A:VAL:HG13	2	0.36
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	12	0.36
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	12	0.36
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	15	0.36
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	15	0.36
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	5	0.36
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	16	0.36
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	3	0.36
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	8	0.36
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	19	0.36
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	19	0.36
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	7	0.36
(1,1349)	1:162:A:GLN:HG2	1:163:A:LEU:HA	7	0.36
(1,1349)	1:162:A:GLN:HG3	1:163:A:LEU:HA	7	0.36
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	8	0.36
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	8	0.36
(1,1346)	1:162:A:GLN:H	1:165:A:GLU:H	8	0.36
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	20	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1298)	1:158:A:GLU:H	1:160:A:ILE:H	16	0.36
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	16	0.36
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	10	0.36
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	10	0.36
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	2	0.36
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	20	0.36
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	12	0.36
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	12	0.36
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	17	0.36
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	17	0.36
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	17	0.36
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	16	0.36
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	16	0.36
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	4	0.36
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	1	0.36
(1,1093)	1:132:A:VAL:HA	1:135:A:ILE:HB	2	0.36
(1,1075)	1:129:A:PRO:HG2	1:130:A:TYR:HA	15	0.36
(1,1075)	1:129:A:PRO:HG3	1:130:A:TYR:HA	15	0.36
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	13	0.36
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	13	0.36
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	1	0.36
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	16	0.36
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	10	0.36
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG13	1	0.36
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG23	1	0.36
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	6	0.36
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	6	0.36
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	6	0.36
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	6	0.36
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	13	0.36
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	17	0.36
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	17	0.36
(1,1003)	1:116:A:ILE:HG23	1:117:A:VAL:HG23	18	0.36
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	5	0.36
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	1	0.36
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	20	0.36
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	4	0.36
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	10	0.36
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	10	0.36
(1,885)	1:90:A:LEU:H	1:91:A:THR:H	12	0.36
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	16	0.36
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	15	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	15	0.36
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG3	15	0.36
(1,874)	1:89:A:ILE:HA	1:92:A:LYS:HG2	15	0.36
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	8	0.36
(1,763)	1:82:A:GLN:H	1:84:A:GLU:H	4	0.36
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	3	0.36
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	10	0.36
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	16	0.36
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	7	0.36
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	3	0.36
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	17	0.36
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	15	0.36
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	2	0.36
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	3	0.36
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	2	0.36
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	2	0.36
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	7	0.36
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	11	0.36
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	18	0.36
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	12	0.36
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	12	0.36
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	14	0.36
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	14	0.36
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	8	0.36
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	8	0.36
(1,483)	1:58:A:VAL:HG13	1:73:A:LEU:HG	9	0.36
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	13	0.36
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	4	0.36
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	2	0.36
(1,458)	1:54:A:GLN:HB2	1:55:A:THR:HG23	2	0.36
(1,458)	1:54:A:GLN:HB3	1:55:A:THR:HG23	2	0.36
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	18	0.36
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	18	0.36
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	16	0.36
(1,445)	1:53:A:LEU:HA	1:55:A:THR:H	2	0.36
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	6	0.36
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	6	0.36
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	9	0.36
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB2	14	0.36
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB3	14	0.36
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	17	0.36
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	19	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	18	0.36
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	13	0.36
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	10	0.36
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	10	0.36
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	3	0.36
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	7	0.36
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	8	0.36
(1,276)	1:29:A:PHE:HA	1:60:A:VAL:HA	12	0.36
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	17	0.36
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	17	0.36
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	17	0.36
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	17	0.36
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	5	0.36
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	6	0.36
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	5	0.36
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	1	0.36
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	1	0.36
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD2	15	0.36
(1,212)	1:22:A:MET:HG2	1:24:A:ARG:HD3	15	0.36
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD2	15	0.36
(1,212)	1:22:A:MET:HG3	1:24:A:ARG:HD3	15	0.36
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	20	0.36
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	20	0.36
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	6	0.36
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB2	9	0.36
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB3	9	0.36
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB2	13	0.36
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB3	13	0.36
(1,179)	1:22:A:MET:H	1:23:A:LYS:HA	4	0.36
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	13	0.36
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	13	0.36
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	7	0.36
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	19	0.36
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	9	0.36
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	9	0.36
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	2	0.36
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	19	0.36
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	19	0.36
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	10	0.36
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	10	0.36
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	12	0.36
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	19	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	19	0.36
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	19	0.36
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	19	0.36
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	12	0.36
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	12	0.36
(1,35)	1:12:A:ILE:H	1:13:A:ARG:H	20	0.36
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	8	0.36
(1,4)	1:7:A:THR:H	1:7:A:THR:HB	12	0.36
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	6	0.35
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	9	0.35
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	10	0.35
(2,16)	1:61:A:ASN:H	1:66:A:GLN:O	20	0.35
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	14	0.35
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	16	0.35
(1,2142)	1:241:A:LEU:H	1:242:A:LYS:H	4	0.35
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	12	0.35
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	14	0.35
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	14	0.35
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	12	0.35
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	12	0.35
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	16	0.35
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	16	0.35
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	14	0.35
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	14	0.35
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	8	0.35
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	8	0.35
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	16	0.35
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	6	0.35
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	11	0.35
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	12	0.35
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	10	0.35
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	10	0.35
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	17	0.35
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	3	0.35
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	17	0.35
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	1	0.35
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB3	12	0.35
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB2	12	0.35
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	11	0.35
(1,1806)	1:202:A:GLU:HG2	1:248:A:ASP:H	8	0.35
(1,1806)	1:202:A:GLU:HG3	1:248:A:ASP:H	8	0.35
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	17	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	14	0.35
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	6	0.35
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	13	0.35
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	17	0.35
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	15	0.35
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	19	0.35
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	19	0.35
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	20	0.35
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	20	0.35
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG2	6	0.35
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG3	6	0.35
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	3	0.35
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	3	0.35
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	2	0.35
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	2	0.35
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	2	0.35
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	2	0.35
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	20	0.35
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	20	0.35
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	20	0.35
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	20	0.35
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	10	0.35
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	11	0.35
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	3	0.35
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	3	0.35
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	8	0.35
(1,1592)	1:188:A:LEU:H	1:188:A:LEU:HG	14	0.35
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	16	0.35
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	4	0.35
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	2	0.35
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB2	8	0.35
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB3	8	0.35
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB2	8	0.35
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB3	8	0.35
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	13	0.35
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	14	0.35
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	17	0.35
(1,1395)	1:168:A:LYS:HA	1:169:A:ILE:HG23	11	0.35
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	11	0.35
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	11	0.35
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	15	0.35
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	15	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG2	10	0.35
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG3	10	0.35
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	5	0.35
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	5	0.35
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	18	0.35
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	18	0.35
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	11	0.35
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	14	0.35
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	16	0.35
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	8	0.35
(1,1271)	1:155:A:GLN:H	1:156:A:ALA:H	10	0.35
(1,1262)	1:153:A:LYS:HE2	1:154:A:GLN:H	2	0.35
(1,1262)	1:153:A:LYS:HE3	1:154:A:GLN:H	2	0.35
(1,1250)	1:153:A:LYS:H	1:154:A:GLN:HA	1	0.35
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	16	0.35
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	17	0.35
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	18	0.35
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	17	0.35
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	12	0.35
(1,1198)	1:140:A:LYS:H	1:143:A:HIS:H	5	0.35
(1,1186)	1:138:A:ALA:HA	1:141:A:ASP:H	14	0.35
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	12	0.35
(1,1184)	1:138:A:ALA:HA	1:138:A:ALA:HB3	4	0.35
(1,1184)	1:138:A:ALA:HA	1:138:A:ALA:HB3	15	0.35
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	18	0.35
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	8	0.35
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	10	0.35
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB2	12	0.35
(1,1141)	1:135:A:ILE:HG23	1:136:A:GLU:HB3	12	0.35
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	6	0.35
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	19	0.35
(1,1087)	1:131:A:THR:HG23	1:134:A:LEU:H	5	0.35
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	3	0.35
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	7	0.35
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	2	0.35
(1,1017)	1:118:A:ALA:H	1:120:A:LYS:H	14	0.35
(1,1005)	1:117:A:VAL:H	1:119:A:ASP:H	1	0.35
(1,983)	1:114:A:ALA:HA	1:116:A:ILE:H	1	0.35
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	10	0.35
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	10	0.35
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	12	0.35
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	12	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	12	0.35
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	12	0.35
(1,975)	1:111:A:ARG:HB2	1:132:A:VAL:HG13	8	0.35
(1,975)	1:111:A:ARG:HB3	1:132:A:VAL:HG13	8	0.35
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	9	0.35
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	12	0.35
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	19	0.35
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	19	0.35
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	6	0.35
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	9	0.35
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG2	18	0.35
(1,856)	1:88:A:GLN:HG2	1:92:A:LYS:HG3	18	0.35
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG2	18	0.35
(1,856)	1:88:A:GLN:HG3	1:92:A:LYS:HG3	18	0.35
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	3	0.35
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	3	0.35
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB2	6	0.35
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB3	6	0.35
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	8	0.35
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	20	0.35
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	8	0.35
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	1	0.35
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	1	0.35
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	9	0.35
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	17	0.35
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	20	0.35
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	7	0.35
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	5	0.35
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	6	0.35
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	9	0.35
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	1	0.35
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	2	0.35
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	2	0.35
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB2	3	0.35
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB3	3	0.35
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB2	3	0.35
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB3	3	0.35
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	2	0.35
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	15	0.35
(1,463)	1:55:A:THR:H	1:57:A:SER:H	3	0.35
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	10	0.35
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	3	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	5	0.35
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	2	0.35
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	5	0.35
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	5	0.35
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	19	0.35
(1,277)	1:29:A:PHE:HB2	1:58:A:VAL:HG13	1	0.35
(1,277)	1:29:A:PHE:HB3	1:58:A:VAL:HG13	1	0.35
(1,267)	1:28:A:ARG:HB2	1:29:A:PHE:HA	8	0.35
(1,267)	1:28:A:ARG:HB3	1:29:A:PHE:HA	8	0.35
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	2	0.35
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	2	0.35
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	11	0.35
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	11	0.35
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	12	0.35
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD2	7	0.35
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD3	7	0.35
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	12	0.35
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	2	0.35
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	2	0.35
(1,173)	1:21:A:ARG:HB2	1:89:A:ILE:HG23	8	0.35
(1,173)	1:21:A:ARG:HB3	1:89:A:ILE:HG23	8	0.35
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	17	0.35
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	4	0.35
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	17	0.35
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	18	0.35
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	18	0.35
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	10	0.35
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	8	0.35
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	8	0.35
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	8	0.35
(1,20)	1:8:A:PRO:HD2	1:15:A:THR:HB	18	0.35
(1,20)	1:8:A:PRO:HD3	1:15:A:THR:HB	18	0.35
(1,14)	1:7:A:THR:HB	1:15:A:THR:HG23	5	0.35
(1,13)	1:7:A:THR:HB	1:15:A:THR:HB	17	0.35
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	11	0.34
(2,29)	1:84:A:GLU:O	1:88:A:GLN:H	6	0.34
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	4	0.34
(1,2207)	1:249:A:GLU:HB2	1:250:A:LYS:HA	4	0.34
(1,2207)	1:249:A:GLU:HB3	1:250:A:LYS:HA	4	0.34
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	11	0.34
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	11	0.34
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	1	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	1	0.34
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	6	0.34
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	1	0.34
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	12	0.34
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	6	0.34
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	6	0.34
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	16	0.34
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	18	0.34
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	20	0.34
(1,2009)	1:226:A:ILE:HG23	1:226:A:ILE:HD13	15	0.34
(1,1992)	1:226:A:ILE:H	1:229:A:GLU:H	20	0.34
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	6	0.34
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	20	0.34
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	20	0.34
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	15	0.34
(1,1857)	1:208:A:LEU:H	1:208:A:LEU:HD13	1	0.34
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	20	0.34
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	14	0.34
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	14	0.34
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	12	0.34
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	12	0.34
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	12	0.34
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	12	0.34
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	7	0.34
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	3	0.34
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	6	0.34
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	3	0.34
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	3	0.34
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	14	0.34
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	14	0.34
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	4	0.34
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	15	0.34
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	19	0.34
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	18	0.34
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	15	0.34
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	15	0.34
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	8	0.34
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE2	7	0.34
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE3	7	0.34
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE2	7	0.34
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE3	7	0.34
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	12	0.34
(1,1621)	1:189:A:LYS:H	1:190:A:GLU:HG2	2	0.34
(1,1621)	1:189:A:LYS:H	1:190:A:GLU:HG3	2	0.34
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	17	0.34
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	4	0.34
(1,1576)	1:186:A:LYS:HA	1:189:A:LYS:H	14	0.34
(1,1562)	1:185:A:GLY:HA2	1:188:A:LEU:HG	19	0.34
(1,1562)	1:185:A:GLY:HA3	1:188:A:LEU:HG	19	0.34
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	9	0.34
(1,1537)	1:182:A:VAL:HA	1:182:A:VAL:HG13	8	0.34
(1,1537)	1:182:A:VAL:HA	1:182:A:VAL:HG23	8	0.34
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	11	0.34
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	16	0.34
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	7	0.34
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	7	0.34
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	2	0.34
(1,1480)	1:177:A:ARG:HB2	1:211:A:VAL:HA	20	0.34
(1,1480)	1:177:A:ARG:HB3	1:211:A:VAL:HA	20	0.34
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	14	0.34
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	7	0.34
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	16	0.34
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	16	0.34
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	8	0.34
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	8	0.34
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	16	0.34
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	16	0.34
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	14	0.34
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG2	10	0.34
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG3	10	0.34
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	8	0.34
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	8	0.34
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	17	0.34
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	10	0.34
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	17	0.34
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	3	0.34
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	13	0.34
(1,1184)	1:138:A:ALA:HA	1:138:A:ALA:HB3	11	0.34
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	17	0.34
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	6	0.34
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	9	0.34
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	16	0.34
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	20	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	20	0.34
(1,1120)	1:133:A:ILE:HB	1:133:A:ILE:HD13	10	0.34
(1,1120)	1:133:A:ILE:HB	1:133:A:ILE:HD13	13	0.34
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	2	0.34
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	4	0.34
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	17	0.34
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	5	0.34
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG12	16	0.34
(1,1086)	1:131:A:THR:HG23	1:133:A:ILE:HG13	16	0.34
(1,1071)	1:128:A:ARG:H	1:128:A:ARG:HG2	14	0.34
(1,1071)	1:128:A:ARG:H	1:128:A:ARG:HG3	14	0.34
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE2	18	0.34
(1,1069)	1:127:A:LYS:HB2	1:127:A:LYS:HE3	18	0.34
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE2	18	0.34
(1,1069)	1:127:A:LYS:HB3	1:127:A:LYS:HE3	18	0.34
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG13	20	0.34
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG23	20	0.34
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	9	0.34
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	9	0.34
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	5	0.34
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	18	0.34
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	10	0.34
(1,983)	1:114:A:ALA:HA	1:116:A:ILE:H	2	0.34
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	3	0.34
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	15	0.34
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	18	0.34
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	18	0.34
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	9	0.34
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	9	0.34
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	5	0.34
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	5	0.34
(1,829)	1:87:A:LYS:HA	1:90:A:LEU:H	12	0.34
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	11	0.34
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	11	0.34
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	10	0.34
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	6	0.34
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	5	0.34
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	7	0.34
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	16	0.34
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	17	0.34
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	8	0.34
(1,640)	1:72:A:ASP:H	1:73:A:LEU:HA	18	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	3	0.34
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	13	0.34
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	8	0.34
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	14	0.34
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	4	0.34
(1,518)	1:60:A:VAL:HB	1:68:A:ALA:HB3	6	0.34
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	11	0.34
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	17	0.34
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	6	0.34
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	8	0.34
(1,478)	1:58:A:VAL:HA	1:58:A:VAL:HG23	3	0.34
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	16	0.34
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	19	0.34
(1,445)	1:53:A:LEU:HA	1:55:A:THR:H	11	0.34
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	13	0.34
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	13	0.34
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	19	0.34
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	19	0.34
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB2	15	0.34
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB3	15	0.34
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB2	15	0.34
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB3	15	0.34
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	5	0.34
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	4	0.34
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	13	0.34
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	14	0.34
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	1	0.34
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	1	0.34
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	18	0.34
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	18	0.34
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	18	0.34
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	18	0.34
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	6	0.34
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	18	0.34
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB2	5	0.34
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB3	5	0.34
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	19	0.34
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	4	0.34
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	16	0.34
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	9	0.34
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	9	0.34
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	13	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	14	0.34
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	3	0.34
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	3	0.34
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	3	0.34
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	3	0.34
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	6	0.34
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	6	0.34
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	20	0.34
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	20	0.34
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	20	0.34
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	20	0.34
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	7	0.34
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	14	0.33
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	6	0.33
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	12	0.33
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	15	0.33
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	14	0.33
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	14	0.33
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	3	0.33
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	14	0.33
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	20	0.33
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	20	0.33
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	15	0.33
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	13	0.33
(1,2024)	1:227:A:LYS:H	1:230:A:THR:H	20	0.33
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	13	0.33
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	13	0.33
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	12	0.33
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	13	0.33
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	8	0.33
(1,1898)	1:218:A:CYS:HA	1:221:A:GLU:HB2	11	0.33
(1,1898)	1:218:A:CYS:HA	1:221:A:GLU:HB3	11	0.33
(1,1891)	1:216:A:PRO:HA	1:217:A:GLY:H	1	0.33
(1,1891)	1:216:A:PRO:HA	1:217:A:GLY:H	9	0.33
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	13	0.33
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	20	0.33
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	20	0.33
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	12	0.33
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	20	0.33
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	17	0.33
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	15	0.33
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG2	7	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1829)	1:203:A:ASP:HB2	1:209:A:GLU:HG3	7	0.33
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG2	7	0.33
(1,1829)	1:203:A:ASP:HB3	1:209:A:GLU:HG3	7	0.33
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	11	0.33
(1,1810)	1:203:A:ASP:H	1:209:A:GLU:H	9	0.33
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	2	0.33
(1,1806)	1:202:A:GLU:HG2	1:248:A:ASP:H	16	0.33
(1,1806)	1:202:A:GLU:HG3	1:248:A:ASP:H	16	0.33
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	20	0.33
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	20	0.33
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	12	0.33
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	14	0.33
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	11	0.33
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG12	3	0.33
(1,1718)	1:197:A:LYS:HE2	1:222:A:ILE:HG13	3	0.33
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG12	3	0.33
(1,1718)	1:197:A:LYS:HE3	1:222:A:ILE:HG13	3	0.33
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	9	0.33
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	9	0.33
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	6	0.33
(1,1658)	1:191:A:LYS:H	1:193:A:LYS:H	15	0.33
(1,1658)	1:191:A:LYS:H	1:193:A:LYS:H	16	0.33
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	1	0.33
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	5	0.33
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	18	0.33
(1,1648)	1:190:A:GLU:H	1:193:A:LYS:H	1	0.33
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG2	12	0.33
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG3	12	0.33
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD2	12	0.33
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD3	12	0.33
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD2	12	0.33
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD3	12	0.33
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	14	0.33
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	7	0.33
(1,1589)	1:187:A:LYS:HA	1:189:A:LYS:H	3	0.33
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	19	0.33
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	14	0.33
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	8	0.33
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	12	0.33
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	12	0.33
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	15	0.33
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	11	0.33
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	11	0.33
(1,1425)	1:173:A:HIS:HB2	1:215:A:ASP:H	7	0.33
(1,1425)	1:173:A:HIS:HB3	1:215:A:ASP:H	7	0.33
(1,1415)	1:171:A:ARG:HA	1:172:A:ALA:H	16	0.33
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	2	0.33
(1,1405)	1:169:A:ILE:HG12	1:170:A:GLU:H	15	0.33
(1,1405)	1:169:A:ILE:HG13	1:170:A:GLU:H	15	0.33
(1,1362)	1:163:A:LEU:HD23	1:169:A:ILE:H	12	0.33
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	12	0.33
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	12	0.33
(1,1298)	1:158:A:GLU:H	1:160:A:ILE:H	20	0.33
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	1	0.33
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	18	0.33
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	2	0.33
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	5	0.33
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	8	0.33
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	11	0.33
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	2	0.33
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	1	0.33
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	7	0.33
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	14	0.33
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	14	0.33
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	14	0.33
(1,1126)	1:133:A:ILE:HG23	1:134:A:LEU:H	19	0.33
(1,1120)	1:133:A:ILE:HB	1:133:A:ILE:HD13	7	0.33
(1,1120)	1:133:A:ILE:HB	1:133:A:ILE:HD13	19	0.33
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	5	0.33
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	5	0.33
(1,1085)	1:131:A:THR:HG23	1:133:A:ILE:H	12	0.33
(1,1077)	1:130:A:TYR:H	1:131:A:THR:HA	5	0.33
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	1	0.33
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	18	0.33
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	5	0.33
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	11	0.33
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	7	0.33
(1,988)	1:115:A:THR:H	1:115:A:THR:HG23	11	0.33
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	9	0.33
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	18	0.33
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	9	0.33
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	9	0.33
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	9	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	9	0.33
(1,957)	1:109:A:MET:H	1:111:A:ARG:HB2	6	0.33
(1,957)	1:109:A:MET:H	1:111:A:ARG:HB3	6	0.33
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	16	0.33
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	4	0.33
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	4	0.33
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG13	16	0.33
(1,891)	1:90:A:LEU:HA	1:95:A:VAL:HG23	16	0.33
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	18	0.33
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	16	0.33
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	20	0.33
(1,733)	1:78:A:GLY:H	1:79:A:THR:H	9	0.33
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	6	0.33
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	6	0.33
(1,710)	1:75:A:SER:H	1:79:A:THR:H	13	0.33
(1,709)	1:75:A:SER:H	1:78:A:GLY:H	11	0.33
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	5	0.33
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	7	0.33
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	1	0.33
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	14	0.33
(1,676)	1:74:A:ILE:H	1:74:A:ILE:HD13	6	0.33
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	12	0.33
(1,661)	1:73:A:LEU:HA	1:78:A:GLY:H	7	0.33
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	19	0.33
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	4	0.33
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	7	0.33
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	14	0.33
(1,632)	1:71:A:GLU:HA	1:74:A:ILE:H	7	0.33
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	7	0.33
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	17	0.33
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	17	0.33
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	14	0.33
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	14	0.33
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	14	0.33
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	14	0.33
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG2	15	0.33
(1,602)	1:69:A:LYS:HG2	1:70:A:LYS:HG3	15	0.33
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG2	15	0.33
(1,602)	1:69:A:LYS:HG3	1:70:A:LYS:HG3	15	0.33
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	3	0.33
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	16	0.33
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	3	0.33
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	3	0.33
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	15	0.33
(1,478)	1:58:A:VAL:HA	1:58:A:VAL:HG23	12	0.33
(1,478)	1:58:A:VAL:HA	1:58:A:VAL:HG23	14	0.33
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	2	0.33
(1,452)	1:53:A:LEU:HD13	1:56:A:HIS:HA	3	0.33
(1,452)	1:53:A:LEU:HD23	1:56:A:HIS:HA	3	0.33
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	11	0.33
(1,429)	1:52:A:VAL:H	1:52:A:VAL:HB	18	0.33
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB2	9	0.33
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB3	9	0.33
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	17	0.33
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	17	0.33
(1,379)	1:44:A:GLY:HA2	1:45:A:VAL:H	12	0.33
(1,379)	1:44:A:GLY:HA3	1:45:A:VAL:H	12	0.33
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	1	0.33
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	1	0.33
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	6	0.33
(1,327)	1:34:A:TYR:H	1:52:A:VAL:HA	9	0.33
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	12	0.33
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	12	0.33
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	3	0.33
(1,309)	1:32:A:ALA:H	1:53:A:LEU:HD23	2	0.33
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	7	0.33
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	11	0.33
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	11	0.33
(1,243)	1:24:A:ARG:HB2	1:27:A:LYS:H	9	0.33
(1,243)	1:24:A:ARG:HB3	1:27:A:LYS:H	9	0.33
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	12	0.33
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	12	0.33
(1,203)	1:22:A:MET:HB3	1:89:A:ILE:HA	4	0.33
(1,203)	1:22:A:MET:HB2	1:89:A:ILE:HA	4	0.33
(1,203)	1:22:A:MET:HB3	1:89:A:ILE:HA	4	0.33
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	9	0.33
(1,179)	1:22:A:MET:H	1:23:A:LYS:HA	14	0.33
(1,179)	1:22:A:MET:H	1:23:A:LYS:HA	16	0.33
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	17	0.33
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	17	0.33
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	17	0.33
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	17	0.33
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	17	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	17	0.33
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	20	0.33
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	20	0.33
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	2	0.33
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	5	0.33
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	18	0.33
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	6	0.33
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	6	0.33
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	9	0.33
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	4	0.33
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	2	0.33
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	4	0.33
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	4	0.33
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	4	0.33
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	4	0.33
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	14	0.33
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	14	0.33
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	14	0.33
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	14	0.33
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	20	0.33
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	20	0.33
(1,47)	1:12:A:ILE:HG12	1:54:A:GLN:H	8	0.33
(1,47)	1:12:A:ILE:HG13	1:54:A:GLN:H	8	0.33
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	14	0.33
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	14	0.33
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	15	0.33
(1,21)	1:8:A:PRO:HD2	1:15:A:THR:HG23	9	0.33
(1,21)	1:8:A:PRO:HD3	1:15:A:THR:HG23	9	0.33
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	5	0.33
(1,13)	1:7:A:THR:HB	1:15:A:THR:HB	1	0.33
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	11	0.33
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	9	0.33
(2,50)	1:159:A:VAL:O	1:163:A:LEU:H	13	0.32
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	14	0.32
(1,2213)	1:250:A:LYS:HA	1:250:A:LYS:HE2	15	0.32
(1,2213)	1:250:A:LYS:HA	1:250:A:LYS:HE3	15	0.32
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	8	0.32
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	8	0.32
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	8	0.32
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	8	0.32
(1,2157)	1:243:A:ASP:H	1:244:A:VAL:H	15	0.32
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	18	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	18	0.32
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	4	0.32
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	4	0.32
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	19	0.32
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	14	0.32
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	19	0.32
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	6	0.32
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	6	0.32
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	12	0.32
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	14	0.32
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	16	0.32
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	16	0.32
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	4	0.32
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	4	0.32
(1,1969)	1:225:A:LEU:HA	1:229:A:GLU:H	18	0.32
(1,1957)	1:224:A:GLU:HB2	1:225:A:LEU:HA	11	0.32
(1,1957)	1:224:A:GLU:HB3	1:225:A:LEU:HA	11	0.32
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	14	0.32
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	14	0.32
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	1	0.32
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	1	0.32
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	15	0.32
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	15	0.32
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	14	0.32
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	19	0.32
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	1	0.32
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	1	0.32
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	18	0.32
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	18	0.32
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	19	0.32
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	19	0.32
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	15	0.32
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	15	0.32
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	1	0.32
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	6	0.32
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	18	0.32
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	5	0.32
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	13	0.32
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	2	0.32
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	2	0.32
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	2	0.32
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG2	14	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1782)	1:201:A:SER:HB2	1:209:A:GLU:HG3	14	0.32
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG2	14	0.32
(1,1782)	1:201:A:SER:HB3	1:209:A:GLU:HG3	14	0.32
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	8	0.32
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	8	0.32
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	8	0.32
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	6	0.32
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	18	0.32
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	14	0.32
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	3	0.32
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	3	0.32
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	3	0.32
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	3	0.32
(1,1688)	1:193:A:LYS:HB2	1:198:A:VAL:HG23	18	0.32
(1,1688)	1:193:A:LYS:HB3	1:198:A:VAL:HG23	18	0.32
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG3	17	0.32
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG2	17	0.32
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	8	0.32
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	8	0.32
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	7	0.32
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	14	0.32
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	20	0.32
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	20	0.32
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	20	0.32
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	20	0.32
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB2	13	0.32
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB3	13	0.32
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB2	16	0.32
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB3	16	0.32
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	19	0.32
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	16	0.32
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	10	0.32
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	15	0.32
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	15	0.32
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	6	0.32
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	9	0.32
(1,1571)	1:186:A:LYS:H	1:189:A:LYS:H	1	0.32
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	18	0.32
(1,1542)	1:182:A:VAL:HG13	1:183:A:ASN:HA	14	0.32
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	2	0.32
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	2	0.32
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	3	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	3	0.32
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	10	0.32
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	9	0.32
(1,1480)	1:177:A:ARG:HB2	1:211:A:VAL:HA	12	0.32
(1,1480)	1:177:A:ARG:HB3	1:211:A:VAL:HA	12	0.32
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	5	0.32
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	5	0.32
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	10	0.32
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	10	0.32
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	14	0.32
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	4	0.32
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	4	0.32
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	19	0.32
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	19	0.32
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	1	0.32
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	1	0.32
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	14	0.32
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	3	0.32
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	3	0.32
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	16	0.32
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	16	0.32
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	3	0.32
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	3	0.32
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	6	0.32
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	6	0.32
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	16	0.32
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	3	0.32
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	3	0.32
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	17	0.32
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	7	0.32
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	7	0.32
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	4	0.32
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	4	0.32
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	3	0.32
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE2	15	0.32
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE3	15	0.32
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE2	15	0.32
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE3	15	0.32
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	5	0.32
(1,1232)	1:146:A:VAL:HA	1:146:A:VAL:HG13	5	0.32
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	8	0.32
(1,1211)	1:142:A:ILE:HA	1:142:A:ILE:HD13	12	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	1	0.32
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	15	0.32
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	15	0.32
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	15	0.32
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD2	20	0.32
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD3	20	0.32
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	16	0.32
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	20	0.32
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	3	0.32
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	19	0.32
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	19	0.32
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	19	0.32
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	19	0.32
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG2	13	0.32
(1,1013)	1:117:A:VAL:HG23	1:120:A:LYS:HG3	13	0.32
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	16	0.32
(1,960)	1:109:A:MET:HB2	1:110:A:PHE:H	8	0.32
(1,960)	1:109:A:MET:HB3	1:110:A:PHE:H	8	0.32
(1,949)	1:97:A:VAL:HA	1:97:A:VAL:HG13	10	0.32
(1,949)	1:97:A:VAL:HA	1:97:A:VAL:HG23	10	0.32
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	8	0.32
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG2	17	0.32
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG3	17	0.32
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	3	0.32
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	11	0.32
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	17	0.32
(1,910)	1:92:A:LYS:H	1:93:A:GLY:H	7	0.32
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	8	0.32
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	8	0.32
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	3	0.32
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	3	0.32
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	8	0.32
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	8	0.32
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	15	0.32
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	15	0.32
(1,829)	1:87:A:LYS:HA	1:90:A:LEU:H	6	0.32
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	11	0.32
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	10	0.32
(1,753)	1:81:A:ASP:H	1:84:A:GLU:H	4	0.32
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	5	0.32
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	2	0.32
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	8	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	1	0.32
(1,680)	1:74:A:ILE:H	1:76:A:ALA:H	19	0.32
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	8	0.32
(1,670)	1:73:A:LEU:HD13	1:74:A:ILE:HB	12	0.32
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	10	0.32
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	3	0.32
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	7	0.32
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	15	0.32
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	1	0.32
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	9	0.32
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	18	0.32
(1,640)	1:72:A:ASP:H	1:73:A:LEU:HA	4	0.32
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB2	14	0.32
(1,638)	1:71:A:GLU:HG2	1:72:A:ASP:HB3	14	0.32
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB2	14	0.32
(1,638)	1:71:A:GLU:HG3	1:72:A:ASP:HB3	14	0.32
(1,637)	1:71:A:GLU:HG2	1:72:A:ASP:H	4	0.32
(1,637)	1:71:A:GLU:HG3	1:72:A:ASP:H	4	0.32
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	10	0.32
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	20	0.32
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	14	0.32
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	19	0.32
(1,589)	1:68:A:ALA:HB3	1:72:A:ASP:HB2	9	0.32
(1,589)	1:68:A:ALA:HB3	1:72:A:ASP:HB3	9	0.32
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	1	0.32
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	1	0.32
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	4	0.32
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	2	0.32
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	2	0.32
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	5	0.32
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	5	0.32
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	10	0.32
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	10	0.32
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	13	0.32
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	11	0.32
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	14	0.32
(1,478)	1:58:A:VAL:HA	1:58:A:VAL:HG23	7	0.32
(1,463)	1:55:A:THR:H	1:57:A:SER:H	12	0.32
(1,436)	1:52:A:VAL:HB	1:53:A:LEU:H	4	0.32
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	18	0.32
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB2	7	0.32
(1,411)	1:49:A:LEU:H	1:49:A:LEU:HB3	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB2	9	0.32
(1,410)	1:48:A:ASP:HB2	1:51:A:GLU:HB3	9	0.32
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB2	9	0.32
(1,410)	1:48:A:ASP:HB3	1:51:A:GLU:HB3	9	0.32
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	2	0.32
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	2	0.32
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	9	0.32
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	9	0.32
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD2	14	0.32
(1,396)	1:47:A:LYS:H	1:47:A:LYS:HD3	14	0.32
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB2	17	0.32
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB3	17	0.32
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	15	0.32
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	20	0.32
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE2	7	0.32
(1,380)	1:44:A:GLY:HA2	1:153:A:LYS:HE3	7	0.32
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE2	7	0.32
(1,380)	1:44:A:GLY:HA3	1:153:A:LYS:HE3	7	0.32
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	10	0.32
(1,327)	1:34:A:TYR:H	1:52:A:VAL:HA	16	0.32
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	17	0.32
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	20	0.32
(1,277)	1:29:A:PHE:HB2	1:58:A:VAL:HG13	14	0.32
(1,277)	1:29:A:PHE:HB3	1:58:A:VAL:HG13	14	0.32
(1,252)	1:27:A:LYS:HB2	1:28:A:ARG:H	10	0.32
(1,252)	1:27:A:LYS:HB3	1:28:A:ARG:H	10	0.32
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	7	0.32
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	6	0.32
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	6	0.32
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	13	0.32
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	13	0.32
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB2	6	0.32
(1,187)	1:22:A:MET:H	1:30:A:GLU:HB3	6	0.32
(1,183)	1:22:A:MET:H	1:29:A:PHE:H	20	0.32
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	20	0.32
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	11	0.32
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	13	0.32
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	17	0.32
(1,84)	1:14:A:LEU:HG	1:55:A:THR:HG23	3	0.32
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	7	0.32
(1,75)	1:14:A:LEU:H	1:15:A:THR:HA	8	0.32
(1,74)	1:14:A:LEU:H	1:15:A:THR:H	5	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,69)	1:13:A:ARG:HB2	1:15:A:THR:HA	7	0.32
(1,69)	1:13:A:ARG:HB3	1:15:A:THR:HA	7	0.32
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	9	0.32
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	9	0.32
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	15	0.32
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	15	0.32
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	14	0.32
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	1	0.31
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	14	0.31
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	13	0.31
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	2	0.31
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	15	0.31
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	20	0.31
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	20	0.31
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	16	0.31
(2,43)	1:151:A:SER:O	1:155:A:GLN:H	10	0.31
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	16	0.31
(2,13)	1:48:A:ASP:O	1:51:A:GLU:H	4	0.31
(1,2208)	1:249:A:GLU:HG2	1:250:A:LYS:H	2	0.31
(1,2208)	1:249:A:GLU:HG3	1:250:A:LYS:H	2	0.31
(1,2200)	1:248:A:ASP:HA	1:250:A:LYS:H	3	0.31
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	14	0.31
(1,2184)	1:246:A:GLU:HA	1:247:A:GLY:H	19	0.31
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	7	0.31
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	1	0.31
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD2	3	0.31
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD3	3	0.31
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG2	9	0.31
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG3	9	0.31
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	11	0.31
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	3	0.31
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	12	0.31
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	6	0.31
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	1	0.31
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	1	0.31
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	7	0.31
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB2	16	0.31
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB3	16	0.31
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB2	16	0.31
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB3	16	0.31
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	6	0.31
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	20	0.31
(1,1895)	1:216:A:PRO:HG2	1:217:A:GLY:HA2	7	0.31
(1,1895)	1:216:A:PRO:HG2	1:217:A:GLY:HA3	7	0.31
(1,1895)	1:216:A:PRO:HG3	1:217:A:GLY:HA2	7	0.31
(1,1895)	1:216:A:PRO:HG3	1:217:A:GLY:HA3	7	0.31
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	3	0.31
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	3	0.31
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	11	0.31
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	11	0.31
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	15	0.31
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	6	0.31
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	1	0.31
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	19	0.31
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	19	0.31
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB2	13	0.31
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB3	13	0.31
(1,1746)	1:199:A:ILE:HA	1:211:A:VAL:H	4	0.31
(1,1737)	1:199:A:ILE:H	1:210:A:ILE:HA	9	0.31
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	9	0.31
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	4	0.31
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	4	0.31
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	14	0.31
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	14	0.31
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	14	0.31
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	14	0.31
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	12	0.31
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	17	0.31
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	14	0.31
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	13	0.31
(1,1603)	1:188:A:LEU:HA	1:192:A:LEU:HD13	20	0.31
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	6	0.31
(1,1598)	1:188:A:LEU:H	1:191:A:LYS:H	20	0.31
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	5	0.31
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	11	0.31
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	11	0.31
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	9	0.31
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	16	0.31
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	3	0.31
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	12	0.31
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	18	0.31
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	20	0.31
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	3	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	3	0.31
(1,1509)	1:180:A:LEU:H	1:208:A:LEU:HA	17	0.31
(1,1497)	1:179:A:ILE:H	1:235:A:SER:H	5	0.31
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	17	0.31
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	7	0.31
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	8	0.31
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	19	0.31
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	12	0.31
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB2	18	0.31
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB3	18	0.31
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB2	18	0.31
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB3	18	0.31
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	20	0.31
(1,1386)	1:166:A:LYS:H	1:167:A:MET:H	1	0.31
(1,1383)	1:165:A:GLU:HB2	1:167:A:MET:H	20	0.31
(1,1383)	1:165:A:GLU:HB3	1:167:A:MET:H	20	0.31
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	3	0.31
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	3	0.31
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	19	0.31
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	19	0.31
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	19	0.31
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	19	0.31
(1,1317)	1:160:A:ILE:H	1:162:A:GLN:H	3	0.31
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	4	0.31
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	7	0.31
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	6	0.31
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	16	0.31
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	16	0.31
(1,1268)	1:154:A:GLN:HA	1:156:A:ALA:H	15	0.31
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	9	0.31
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	13	0.31
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	19	0.31
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	14	0.31
(1,1211)	1:142:A:ILE:HA	1:142:A:ILE:HD13	11	0.31
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	11	0.31
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	11	0.31
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	19	0.31
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	19	0.31
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	6	0.31
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	6	0.31
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	6	0.31
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	6	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	13	0.31
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	13	0.31
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	13	0.31
(1,1174)	1:137:A:ARG:HB2	1:139:A:MET:H	6	0.31
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	12	0.31
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	6	0.31
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	10	0.31
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	10	0.31
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	10	0.31
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	16	0.31
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	16	0.31
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG13	17	0.31
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG23	17	0.31
(1,1040)	1:120:A:LYS:HE2	1:215:A:ASP:HA	18	0.31
(1,1040)	1:120:A:LYS:HE3	1:215:A:ASP:HA	18	0.31
(1,1027)	1:118:A:ALA:HB3	1:132:A:VAL:HG13	14	0.31
(1,1018)	1:118:A:ALA:H	1:121:A:CYS:H	2	0.31
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	17	0.31
(1,960)	1:109:A:MET:HB2	1:110:A:PHE:H	7	0.31
(1,960)	1:109:A:MET:HB3	1:110:A:PHE:H	7	0.31
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG13	1	0.31
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG23	1	0.31
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	13	0.31
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	9	0.31
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	9	0.31
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	11	0.31
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	7	0.31
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	7	0.31
(1,828)	1:87:A:LYS:HA	1:89:A:ILE:H	12	0.31
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	8	0.31
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	8	0.31
(1,751)	1:81:A:ASP:H	1:81:A:ASP:HB2	19	0.31
(1,751)	1:81:A:ASP:H	1:81:A:ASP:HB3	19	0.31
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	17	0.31
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	17	0.31
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	9	0.31
(1,738)	1:79:A:THR:HA	1:81:A:ASP:H	11	0.31
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	16	0.31
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	17	0.31
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	18	0.31
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	10	0.31
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	11	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	10	0.31
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	18	0.31
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	18	0.31
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	16	0.31
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	4	0.31
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	2	0.31
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	9	0.31
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	3	0.31
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	4	0.31
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	13	0.31
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	13	0.31
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	14	0.31
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	20	0.31
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	18	0.31
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	18	0.31
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	19	0.31
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	17	0.31
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	18	0.31
(1,519)	1:60:A:VAL:HG23	1:61:A:ASN:H	4	0.31
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	7	0.31
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	11	0.31
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	12	0.31
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	12	0.31
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	18	0.31
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	18	0.31
(1,502)	1:59:A:PHE:HB2	1:62:A:VAL:H	16	0.31
(1,502)	1:59:A:PHE:HB3	1:62:A:VAL:H	16	0.31
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	14	0.31
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	14	0.31
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	18	0.31
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	18	0.31
(1,475)	1:58:A:VAL:H	1:58:A:VAL:HB	2	0.31
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	15	0.31
(1,379)	1:44:A:GLY:HA2	1:45:A:VAL:H	4	0.31
(1,379)	1:44:A:GLY:HA3	1:45:A:VAL:H	4	0.31
(1,350)	1:39:A:VAL:H	1:39:A:VAL:HG23	17	0.31
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	9	0.31
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	3	0.31
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	6	0.31
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	2	0.31
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	2	0.31
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	17	0.31
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	16	0.31
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	16	0.31
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	8	0.31
(1,261)	1:28:A:ARG:H	1:60:A:VAL:HA	19	0.31
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	14	0.31
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	14	0.31
(1,244)	1:25:A:ALA:HA	1:27:A:LYS:H	6	0.31
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	8	0.31
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	8	0.31
(1,233)	1:23:A:LYS:HE2	1:28:A:ARG:HA	1	0.31
(1,233)	1:23:A:LYS:HE3	1:28:A:ARG:HA	1	0.31
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	17	0.31
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	17	0.31
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	11	0.31
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	11	0.31
(1,197)	1:22:A:MET:HA	1:93:A:GLY:H	3	0.31
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	14	0.31
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	13	0.31
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB2	18	0.31
(1,182)	1:22:A:MET:H	1:28:A:ARG:HB3	18	0.31
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	7	0.31
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	14	0.31
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	18	0.31
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	1	0.31
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	6	0.31
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	6	0.31
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	4	0.31
(1,26)	1:11:A:GLN:H	1:13:A:ARG:H	7	0.31
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	10	0.31
(2,28)	1:83:A:THR:O	1:87:A:LYS:H	16	0.3
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	20	0.3
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	7	0.3
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	16	0.3
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB2	10	0.3
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB3	10	0.3
(1,2164)	1:244:A:VAL:HA	1:244:A:VAL:HG13	1	0.3
(1,2164)	1:244:A:VAL:HA	1:244:A:VAL:HG23	1	0.3
(1,2142)	1:241:A:LEU:H	1:242:A:LYS:H	7	0.3
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	15	0.3
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	7	0.3
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	19	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	19	0.3
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD13	3	0.3
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD23	3	0.3
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	1	0.3
(1,2065)	1:229:A:GLU:HB2	1:230:A:THR:HG23	2	0.3
(1,2065)	1:229:A:GLU:HB3	1:230:A:THR:HG23	2	0.3
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	20	0.3
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	14	0.3
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	19	0.3
(1,1992)	1:226:A:ILE:H	1:229:A:GLU:H	18	0.3
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	13	0.3
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	13	0.3
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	2	0.3
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	4	0.3
(1,1898)	1:218:A:CYS:HA	1:221:A:GLU:HB2	19	0.3
(1,1898)	1:218:A:CYS:HA	1:221:A:GLU:HB3	19	0.3
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	3	0.3
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	3	0.3
(1,1841)	1:204:A:TYR:HA	1:208:A:LEU:HD13	3	0.3
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	17	0.3
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	17	0.3
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	11	0.3
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	19	0.3
(1,1806)	1:202:A:GLU:HG2	1:248:A:ASP:H	12	0.3
(1,1806)	1:202:A:GLU:HG3	1:248:A:ASP:H	12	0.3
(1,1806)	1:202:A:GLU:HG2	1:248:A:ASP:H	19	0.3
(1,1806)	1:202:A:GLU:HG3	1:248:A:ASP:H	19	0.3
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	19	0.3
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	10	0.3
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	17	0.3
(1,1688)	1:193:A:LYS:HB2	1:198:A:VAL:HG23	5	0.3
(1,1688)	1:193:A:LYS:HB3	1:198:A:VAL:HG23	5	0.3
(1,1676)	1:192:A:LEU:HG	1:229:A:GLU:HG2	11	0.3
(1,1676)	1:192:A:LEU:HG	1:229:A:GLU:HG3	11	0.3
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	17	0.3
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG2	1	0.3
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG3	1	0.3
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	17	0.3
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	17	0.3
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	12	0.3
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	12	0.3
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	12	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	12	0.3
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	19	0.3
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	19	0.3
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	19	0.3
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	19	0.3
(1,1493)	1:178:A:PHE:HA	1:236:A:LEU:HA	9	0.3
(1,1489)	1:178:A:PHE:H	1:211:A:VAL:HA	17	0.3
(1,1479)	1:177:A:ARG:HB2	1:211:A:VAL:H	3	0.3
(1,1479)	1:177:A:ARG:HB3	1:211:A:VAL:H	3	0.3
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	20	0.3
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	7	0.3
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	7	0.3
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	4	0.3
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	20	0.3
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	20	0.3
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	7	0.3
(1,1424)	1:173:A:HIS:HB2	1:214:A:ILE:H	11	0.3
(1,1424)	1:173:A:HIS:HB3	1:214:A:ILE:H	11	0.3
(1,1415)	1:171:A:ARG:HA	1:172:A:ALA:H	2	0.3
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	5	0.3
(1,1396)	1:168:A:LYS:HA	1:169:A:ILE:HD13	16	0.3
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	17	0.3
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	4	0.3
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	4	0.3
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	6	0.3
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	6	0.3
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	1	0.3
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	1	0.3
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE2	12	0.3
(1,1323)	1:160:A:ILE:HG12	1:161:A:LYS:HE3	12	0.3
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE2	12	0.3
(1,1323)	1:160:A:ILE:HG13	1:161:A:LYS:HE3	12	0.3
(1,1308)	1:159:A:VAL:H	1:162:A:GLN:H	4	0.3
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	1	0.3
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	6	0.3
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	6	0.3
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	20	0.3
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	9	0.3
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	7	0.3
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	19	0.3
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	10	0.3
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	4	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	4	0.3
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	9	0.3
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	9	0.3
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	11	0.3
(1,1090)	1:132:A:VAL:H	1:133:A:ILE:H	8	0.3
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	5	0.3
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	11	0.3
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	11	0.3
(1,960)	1:109:A:MET:HB2	1:110:A:PHE:H	9	0.3
(1,960)	1:109:A:MET:HB3	1:110:A:PHE:H	9	0.3
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	1	0.3
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	18	0.3
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	20	0.3
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	11	0.3
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	11	0.3
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	9	0.3
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	9	0.3
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	17	0.3
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	9	0.3
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	17	0.3
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	1	0.3
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	17	0.3
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	10	0.3
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	10	0.3
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	6	0.3
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	9	0.3
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	5	0.3
(1,680)	1:74:A:ILE:H	1:76:A:ALA:H	1	0.3
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	17	0.3
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	11	0.3
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	10	0.3
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	15	0.3
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	16	0.3
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	11	0.3
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	18	0.3
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	3	0.3
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	3	0.3
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	16	0.3
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	16	0.3
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB2	15	0.3
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB3	15	0.3
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB2	15	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB3	15	0.3
(1,532)	1:61:A:ASN:HA	1:64:A:LYS:H	12	0.3
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB2	10	0.3
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB3	10	0.3
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	5	0.3
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	17	0.3
(1,495)	1:59:A:PHE:HA	1:67:A:VAL:HA	19	0.3
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	18	0.3
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	18	0.3
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	18	0.3
(1,478)	1:58:A:VAL:HA	1:58:A:VAL:HG23	4	0.3
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	10	0.3
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	10	0.3
(1,463)	1:55:A:THR:H	1:57:A:SER:H	6	0.3
(1,463)	1:55:A:THR:H	1:57:A:SER:H	11	0.3
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	13	0.3
(1,392)	1:46:A:GLU:HB2	1:47:A:LYS:H	17	0.3
(1,392)	1:46:A:GLU:HB3	1:47:A:LYS:H	17	0.3
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	10	0.3
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG2	6	0.3
(1,361)	1:41:A:TRP:H	1:46:A:GLU:HG3	6	0.3
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	14	0.3
(1,343)	1:38:A:VAL:HG23	1:39:A:VAL:H	1	0.3
(1,331)	1:34:A:TYR:H	1:53:A:LEU:HA	13	0.3
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	2	0.3
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	2	0.3
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	2	0.3
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	2	0.3
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	2	0.3
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	2	0.3
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	12	0.3
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	20	0.3
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	20	0.3
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	4	0.3
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	4	0.3
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD3	4	0.3
(1,223)	1:23:A:LYS:HA	1:28:A:ARG:HD2	4	0.3
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	7	0.3
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	7	0.3
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	7	0.3
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	7	0.3
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	11	0.3
(1,204)	1:22:A:MET:HB2	1:89:A:ILE:HG23	15	0.3
(1,204)	1:22:A:MET:HB3	1:89:A:ILE:HG23	15	0.3
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	20	0.3
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG12	15	0.3
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG13	15	0.3
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	11	0.3
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	11	0.3
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	10	0.3
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	3	0.3
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	3	0.3
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	3	0.3
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	1	0.3
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	8	0.3
(1,20)	1:8:A:PRO:HD2	1:15:A:THR:HB	12	0.3
(1,20)	1:8:A:PRO:HD3	1:15:A:THR:HB	12	0.3
(2,47)	1:156:A:ALA:O	1:160:A:ILE:H	17	0.29
(2,46)	1:155:A:GLN:O	1:159:A:VAL:H	10	0.29
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	17	0.29
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	6	0.29
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	9	0.29
(2,22)	1:72:A:ASP:O	1:76:A:ALA:H	9	0.29
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	3	0.29
(1,2203)	1:249:A:GLU:H	1:249:A:GLU:HG2	5	0.29
(1,2203)	1:249:A:GLU:H	1:249:A:GLU:HG3	5	0.29
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	4	0.29
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	4	0.29
(1,2177)	1:245:A:GLU:HG2	1:246:A:GLU:H	2	0.29
(1,2177)	1:245:A:GLU:HG3	1:246:A:GLU:H	2	0.29
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	20	0.29
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	2	0.29
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	17	0.29
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	17	0.29
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	10	0.29
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	10	0.29
(1,2110)	1:234:A:GLY:HA2	1:236:A:LEU:H	3	0.29
(1,2110)	1:234:A:GLY:HA3	1:236:A:LEU:H	3	0.29
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	10	0.29
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	7	0.29
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	7	0.29
(1,2093)	1:231:A:LYS:HG3	1:232:A:GLY:H	17	0.29
(1,2093)	1:231:A:LYS:HG2	1:232:A:GLY:H	17	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2093)	1:231:A:LYS:HG3	1:232:A:GLY:H	17	0.29
(1,2051)	1:228:A:LYS:HA	1:232:A:GLY:H	8	0.29
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	5	0.29
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	16	0.29
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	16	0.29
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	6	0.29
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	16	0.29
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	1	0.29
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	19	0.29
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	17	0.29
(1,1992)	1:226:A:ILE:H	1:229:A:GLU:H	4	0.29
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	2	0.29
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	2	0.29
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG2	20	0.29
(1,1939)	1:223:A:ASP:H	1:224:A:GLU:HG3	20	0.29
(1,1924)	1:221:A:GLU:HB2	1:222:A:ILE:HB	17	0.29
(1,1924)	1:221:A:GLU:HB3	1:222:A:ILE:HB	17	0.29
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	17	0.29
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	17	0.29
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	6	0.29
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	3	0.29
(1,1794)	1:202:A:GLU:HA	1:209:A:GLU:H	4	0.29
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB2	14	0.29
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB3	14	0.29
(1,1788)	1:202:A:GLU:H	1:202:A:GLU:HG2	6	0.29
(1,1788)	1:202:A:GLU:H	1:202:A:GLU:HG3	6	0.29
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	6	0.29
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	6	0.29
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	1	0.29
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	1	0.29
(1,1764)	1:200:A:GLU:H	1:202:A:GLU:H	13	0.29
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB2	1	0.29
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB3	1	0.29
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	19	0.29
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	5	0.29
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	5	0.29
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	5	0.29
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	5	0.29
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	5	0.29
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	5	0.29
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	5	0.29
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	11	0.29
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	11	0.29
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	11	0.29
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	1	0.29
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	1	0.29
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG3	19	0.29
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG2	19	0.29
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	15	0.29
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	3	0.29
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	5	0.29
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	15	0.29
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	15	0.29
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	14	0.29
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	11	0.29
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	15	0.29
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	11	0.29
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	11	0.29
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	11	0.29
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	11	0.29
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	5	0.29
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	6	0.29
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	12	0.29
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	19	0.29
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	15	0.29
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	16	0.29
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	17	0.29
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	3	0.29
(1,1546)	1:182:A:VAL:HG23	1:206:A:GLN:HA	6	0.29
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	4	0.29
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	5	0.29
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	5	0.29
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	7	0.29
(1,1418)	1:171:A:ARG:HB2	1:172:A:ALA:HB3	3	0.29
(1,1418)	1:171:A:ARG:HB3	1:172:A:ALA:HB3	3	0.29
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	12	0.29
(1,1401)	1:169:A:ILE:HA	1:169:A:ILE:HD13	13	0.29
(1,1368)	1:164:A:LYS:HA	1:167:A:MET:HA	13	0.29
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	15	0.29
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	15	0.29
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	16	0.29
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	15	0.29
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	15	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	9	0.29
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	1	0.29
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB2	16	0.29
(1,1294)	1:157:A:LEU:HA	1:161:A:LYS:HB3	16	0.29
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	14	0.29
(1,1279)	1:155:A:GLN:HG2	1:158:A:GLU:H	11	0.29
(1,1279)	1:155:A:GLN:HG3	1:158:A:GLU:H	11	0.29
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	18	0.29
(1,1215)	1:142:A:ILE:HD13	1:163:A:LEU:HA	7	0.29
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	10	0.29
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	10	0.29
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	5	0.29
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	9	0.29
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	15	0.29
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	15	0.29
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	9	0.29
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	9	0.29
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	20	0.29
(1,1077)	1:130:A:TYR:H	1:131:A:THR:HA	19	0.29
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	12	0.29
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	12	0.29
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	12	0.29
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	12	0.29
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	11	0.29
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	8	0.29
(1,1029)	1:119:A:ASP:H	1:120:A:LYS:H	2	0.29
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	10	0.29
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	14	0.29
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG2	14	0.29
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG3	14	0.29
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG2	14	0.29
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG3	14	0.29
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	11	0.29
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	11	0.29
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	11	0.29
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	11	0.29
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	7	0.29
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	14	0.29
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	11	0.29
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	4	0.29
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	4	0.29
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	2	0.29
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	2	0.29
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	17	0.29
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	17	0.29
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	17	0.29
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	17	0.29
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	19	0.29
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	9	0.29
(1,824)	1:87:A:LYS:H	1:89:A:ILE:HB	12	0.29
(1,805)	1:85:A:ILE:HG21	1:88:A:GLN:HB2	17	0.29
(1,805)	1:85:A:ILE:HG21	1:88:A:GLN:HB3	17	0.29
(1,805)	1:85:A:ILE:HG22	1:88:A:GLN:HB2	17	0.29
(1,805)	1:85:A:ILE:HG22	1:88:A:GLN:HB3	17	0.29
(1,781)	1:84:A:GLU:H	1:85:A:ILE:H	1	0.29
(1,753)	1:81:A:ASP:H	1:84:A:GLU:H	7	0.29
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	1	0.29
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	11	0.29
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	4	0.29
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	20	0.29
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	20	0.29
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	13	0.29
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	8	0.29
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	3	0.29
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	5	0.29
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	6	0.29
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	11	0.29
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	12	0.29
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	20	0.29
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	13	0.29
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	12	0.29
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	12	0.29
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	12	0.29
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	12	0.29
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	13	0.29
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	13	0.29
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	6	0.29
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG2	11	0.29
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG3	11	0.29
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	7	0.29
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	7	0.29
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	7	0.29
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	19	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	11	0.29
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	12	0.29
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	5	0.29
(1,482)	1:58:A:VAL:HG13	1:59:A:PHE:H	10	0.29
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	2	0.29
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	19	0.29
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	2	0.29
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	16	0.29
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	16	0.29
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB2	11	0.29
(1,437)	1:52:A:VAL:HG13	1:53:A:LEU:HB3	11	0.29
(1,385)	1:45:A:VAL:HA	1:45:A:VAL:HG23	20	0.29
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	15	0.29
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	15	0.29
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	10	0.29
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	15	0.29
(1,350)	1:39:A:VAL:H	1:39:A:VAL:HG23	2	0.29
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG13	20	0.29
(1,348)	1:38:A:VAL:HG23	1:95:A:VAL:HG23	20	0.29
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB2	2	0.29
(1,345)	1:38:A:VAL:HG23	1:90:A:LEU:HB3	2	0.29
(1,332)	1:34:A:TYR:H	1:54:A:GLN:H	9	0.29
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	4	0.29
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	15	0.29
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	17	0.29
(1,288)	1:30:A:GLU:H	1:60:A:VAL:HA	12	0.29
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	7	0.29
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	19	0.29
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	19	0.29
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	19	0.29
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	19	0.29
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	3	0.29
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	14	0.29
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	14	0.29
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	14	0.29
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	14	0.29
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	12	0.29
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	5	0.29
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	5	0.29
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	3	0.29
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	4	0.29
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	4	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	19	0.29
(1,152)	1:20:A:VAL:HG23	1:90:A:LEU:HG	5	0.29
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	9	0.29
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	3	0.29
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	11	0.29
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	15	0.29
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	14	0.29
(1,91)	1:15:A:THR:HA	1:17:A:VAL:H	9	0.29
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	18	0.29
(1,74)	1:14:A:LEU:H	1:15:A:THR:H	3	0.29
(1,42)	1:12:A:ILE:HA	1:13:A:ARG:HB2	18	0.29
(1,42)	1:12:A:ILE:HA	1:13:A:ARG:HB3	18	0.29
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	19	0.29
(1,35)	1:12:A:ILE:H	1:13:A:ARG:H	3	0.29
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	8	0.29
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	6	0.29
(1,4)	1:7:A:THR:H	1:7:A:THR:HB	5	0.29
(1,4)	1:7:A:THR:H	1:7:A:THR:HB	18	0.29
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	16	0.28
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	18	0.28
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	15	0.28
(1,2226)	1:251:A:PHE:HB2	1:252:A:GLU:H	17	0.28
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	17	0.28
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD2	17	0.28
(1,2152)	1:242:A:LYS:HA	1:242:A:LYS:HD3	17	0.28
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	20	0.28
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	20	0.28
(1,2121)	1:236:A:LEU:HB2	1:236:A:LEU:HD13	12	0.28
(1,2121)	1:236:A:LEU:HB3	1:236:A:LEU:HD13	12	0.28
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	8	0.28
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	8	0.28
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	8	0.28
(1,2098)	1:232:A:GLY:H	1:233:A:LYS:H	1	0.28
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	20	0.28
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	20	0.28
(1,2070)	1:230:A:THR:H	1:231:A:LYS:H	12	0.28
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	7	0.28
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	7	0.28
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	17	0.28
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	17	0.28
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	20	0.28
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	20	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	7	0.28
(1,1969)	1:225:A:LEU:HA	1:229:A:GLU:H	12	0.28
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	15	0.28
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	15	0.28
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	14	0.28
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	7	0.28
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG12	5	0.28
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG13	5	0.28
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	2	0.28
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	16	0.28
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	20	0.28
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB2	1	0.28
(1,1804)	1:202:A:GLU:HB2	1:248:A:ASP:HB3	1	0.28
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB2	1	0.28
(1,1804)	1:202:A:GLU:HB3	1:248:A:ASP:HB3	1	0.28
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	4	0.28
(1,1789)	1:202:A:GLU:H	1:210:A:ILE:HA	15	0.28
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	17	0.28
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	17	0.28
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	5	0.28
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	20	0.28
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	4	0.28
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	20	0.28
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	15	0.28
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	8	0.28
(1,1717)	1:197:A:LYS:HB2	1:198:A:VAL:HG13	7	0.28
(1,1717)	1:197:A:LYS:HB3	1:198:A:VAL:HG13	7	0.28
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB2	15	0.28
(1,1703)	1:195:A:LEU:HG	1:197:A:LYS:HB3	15	0.28
(1,1677)	1:192:A:LEU:HG	1:230:A:THR:HG23	10	0.28
(1,1676)	1:192:A:LEU:HG	1:229:A:GLU:HG2	20	0.28
(1,1676)	1:192:A:LEU:HG	1:229:A:GLU:HG3	20	0.28
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	5	0.28
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	5	0.28
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	11	0.28
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	11	0.28
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	10	0.28
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	1	0.28
(1,1613)	1:188:A:LEU:HG	1:230:A:THR:HG23	14	0.28
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	13	0.28
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	5	0.28
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	17	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	8	0.28
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	4	0.28
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	4	0.28
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	18	0.28
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	18	0.28
(1,1576)	1:186:A:LYS:HA	1:189:A:LYS:H	17	0.28
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	2	0.28
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	15	0.28
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	10	0.28
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	10	0.28
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	9	0.28
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA2	11	0.28
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA3	11	0.28
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	2	0.28
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	20	0.28
(1,1442)	1:175:A:ARG:HG2	1:199:A:ILE:HD13	15	0.28
(1,1442)	1:175:A:ARG:HG3	1:199:A:ILE:HD13	15	0.28
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	14	0.28
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	3	0.28
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	3	0.28
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	5	0.28
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG2	15	0.28
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG3	15	0.28
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	5	0.28
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	5	0.28
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	8	0.28
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	10	0.28
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	11	0.28
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	4	0.28
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	4	0.28
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	8	0.28
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	8	0.28
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	13	0.28
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	13	0.28
(1,1279)	1:155:A:GLN:HG2	1:158:A:GLU:H	20	0.28
(1,1279)	1:155:A:GLN:HG3	1:158:A:GLU:H	20	0.28
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	17	0.28
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	19	0.28
(1,1248)	1:153:A:LYS:H	1:153:A:LYS:HD2	8	0.28
(1,1248)	1:153:A:LYS:H	1:153:A:LYS:HD3	8	0.28
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	5	0.28
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	13	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1216)	1:142:A:ILE:HD13	1:164:A:LYS:H	13	0.28
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	7	0.28
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	2	0.28
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	2	0.28
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	3	0.28
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	15	0.28
(1,1101)	1:132:A:VAL:HG13	1:135:A:ILE:HG23	14	0.28
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	6	0.28
(1,1093)	1:132:A:VAL:HA	1:135:A:ILE:HB	10	0.28
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	18	0.28
(1,1056)	1:124:A:PRO:HA	1:125:A:GLU:HG2	2	0.28
(1,1056)	1:124:A:PRO:HA	1:125:A:GLU:HG3	2	0.28
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB2	9	0.28
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB3	9	0.28
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	8	0.28
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	11	0.28
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	8	0.28
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	2	0.28
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	2	0.28
(1,1005)	1:117:A:VAL:H	1:119:A:ASP:H	12	0.28
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	8	0.28
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	20	0.28
(1,960)	1:109:A:MET:HB2	1:110:A:PHE:H	3	0.28
(1,960)	1:109:A:MET:HB3	1:110:A:PHE:H	3	0.28
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	11	0.28
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	11	0.28
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	10	0.28
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	10	0.28
(1,931)	1:95:A:VAL:H	1:97:A:VAL:H	1	0.28
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	13	0.28
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	10	0.28
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD13	8	0.28
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD23	8	0.28
(1,884)	1:90:A:LEU:H	1:90:A:LEU:HD23	13	0.28
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	7	0.28
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	17	0.28
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	18	0.28
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	2	0.28
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	2	0.28
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	10	0.28
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	20	0.28
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB2	4	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,699)	1:74:A:ILE:HG23	1:75:A:SER:HB3	4	0.28
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	2	0.28
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	3	0.28
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	2	0.28
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	6	0.28
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	4	0.28
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	6	0.28
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	8	0.28
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	11	0.28
(1,628)	1:71:A:GLU:H	1:72:A:ASP:H	1	0.28
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	8	0.28
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	17	0.28
(1,601)	1:69:A:LYS:HG2	1:70:A:LYS:H	13	0.28
(1,601)	1:69:A:LYS:HG3	1:70:A:LYS:H	13	0.28
(1,578)	1:67:A:VAL:HA	1:67:A:VAL:HG13	12	0.28
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	9	0.28
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	13	0.28
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	13	0.28
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	9	0.28
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	6	0.28
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	1	0.28
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	18	0.28
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	20	0.28
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	19	0.28
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	19	0.28
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	2	0.28
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	18	0.28
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	18	0.28
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB2	20	0.28
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB3	20	0.28
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	5	0.28
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	6	0.28
(1,353)	1:39:A:VAL:HB	1:97:A:VAL:HG13	10	0.28
(1,349)	1:39:A:VAL:H	1:39:A:VAL:HB	17	0.28
(1,327)	1:34:A:TYR:H	1:52:A:VAL:HA	5	0.28
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	13	0.28
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	10	0.28
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	4	0.28
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	19	0.28
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	17	0.28
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	17	0.28
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	8	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	8	0.28
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD2	4	0.28
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD3	4	0.28
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG12	3	0.28
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG13	3	0.28
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	2	0.28
(1,184)	1:22:A:MET:H	1:29:A:PHE:HA	3	0.28
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	8	0.28
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	11	0.28
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	9	0.28
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	11	0.28
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	11	0.28
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	11	0.28
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG2	10	0.28
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG3	10	0.28
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	20	0.28
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	20	0.28
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	6	0.28
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	12	0.28
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	9	0.28
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	9	0.28
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	15	0.27
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	16	0.27
(2,39)	1:115:A:THR:O	1:119:A:ASP:H	5	0.27
(2,36)	1:112:A:ASP:O	1:116:A:ILE:H	11	0.27
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	2	0.27
(2,20)	1:70:A:LYS:O	1:74:A:ILE:H	9	0.27
(1,2226)	1:251:A:PHE:HB2	1:252:A:GLU:H	2	0.27
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	13	0.27
(1,2164)	1:244:A:VAL:HA	1:244:A:VAL:HG13	20	0.27
(1,2164)	1:244:A:VAL:HA	1:244:A:VAL:HG23	20	0.27
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	3	0.27
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	3	0.27
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	20	0.27
(1,2103)	1:233:A:LYS:H	1:234:A:GLY:H	15	0.27
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	5	0.27
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	5	0.27
(1,2040)	1:227:A:LYS:HD2	1:228:A:LYS:H	7	0.27
(1,2040)	1:227:A:LYS:HD3	1:228:A:LYS:H	7	0.27
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	20	0.27
(1,1998)	1:226:A:ILE:HA	1:231:A:LYS:HB2	13	0.27
(1,1998)	1:226:A:ILE:HA	1:231:A:LYS:HB3	13	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1958)	1:225:A:LEU:H	1:225:A:LEU:HG	13	0.27
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	1	0.27
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	19	0.27
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	5	0.27
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	5	0.27
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	1	0.27
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	9	0.27
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	9	0.27
(1,1803)	1:202:A:GLU:HB2	1:248:A:ASP:H	4	0.27
(1,1803)	1:202:A:GLU:HB3	1:248:A:ASP:H	4	0.27
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	5	0.27
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	15	0.27
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	1	0.27
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	18	0.27
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	19	0.27
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	10	0.27
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	19	0.27
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	7	0.27
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	1	0.27
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	8	0.27
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	19	0.27
(1,1658)	1:191:A:LYS:H	1:193:A:LYS:H	17	0.27
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	14	0.27
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	14	0.27
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB2	12	0.27
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB3	12	0.27
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	4	0.27
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	3	0.27
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	12	0.27
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	12	0.27
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	9	0.27
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	18	0.27
(1,1569)	1:186:A:LYS:H	1:187:A:LYS:HB2	4	0.27
(1,1569)	1:186:A:LYS:H	1:187:A:LYS:HB3	4	0.27
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	13	0.27
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	1	0.27
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	3	0.27
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	8	0.27
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	8	0.27
(1,1518)	1:181:A:PRO:HA	1:182:A:VAL:HB	8	0.27
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	8	0.27
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	9	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB2	9	0.27
(1,1510)	1:180:A:LEU:H	1:209:A:GLU:HB3	9	0.27
(1,1493)	1:178:A:PHE:HA	1:236:A:LEU:HA	2	0.27
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	20	0.27
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	17	0.27
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	1	0.27
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	1	0.27
(1,1435)	1:175:A:ARG:H	1:239:A:LEU:H	6	0.27
(1,1435)	1:175:A:ARG:H	1:239:A:LEU:H	18	0.27
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	5	0.27
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	5	0.27
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	11	0.27
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	11	0.27
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	18	0.27
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	20	0.27
(1,1367)	1:164:A:LYS:H	1:167:A:MET:H	1	0.27
(1,1358)	1:163:A:LEU:HD23	1:164:A:LYS:H	9	0.27
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	10	0.27
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	10	0.27
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	7	0.27
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	7	0.27
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	4	0.27
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	4	0.27
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	11	0.27
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	11	0.27
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG2	4	0.27
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG3	4	0.27
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	2	0.27
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	14	0.27
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	16	0.27
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	18	0.27
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	18	0.27
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	10	0.27
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	13	0.27
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	2	0.27
(1,1280)	1:155:A:GLN:HG2	1:159:A:VAL:H	14	0.27
(1,1280)	1:155:A:GLN:HG3	1:159:A:VAL:H	14	0.27
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	9	0.27
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	9	0.27
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	6	0.27
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	6	0.27
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE2	17	0.27
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE3	17	0.27
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE2	17	0.27
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE3	17	0.27
(1,1247)	1:153:A:LYS:H	1:153:A:LYS:HG3	18	0.27
(1,1247)	1:153:A:LYS:H	1:153:A:LYS:HG2	18	0.27
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	4	0.27
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	4	0.27
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG2	8	0.27
(1,1235)	1:146:A:VAL:HG13	1:147:A:LYS:HG3	8	0.27
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	16	0.27
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	7	0.27
(1,1217)	1:142:A:ILE:HD13	1:165:A:GLU:H	2	0.27
(1,1179)	1:137:A:ARG:HD2	1:140:A:LYS:H	10	0.27
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	15	0.27
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	15	0.27
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	15	0.27
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	15	0.27
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	8	0.27
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	8	0.27
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	12	0.27
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	12	0.27
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	12	0.27
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	7	0.27
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	12	0.27
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	2	0.27
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	2	0.27
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	2	0.27
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	19	0.27
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	19	0.27
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	19	0.27
(1,1119)	1:133:A:ILE:HA	1:137:A:ARG:H	12	0.27
(1,1107)	1:133:A:ILE:H	1:133:A:ILE:HD13	9	0.27
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	2	0.27
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	2	0.27
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	2	0.27
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	2	0.27
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD2	9	0.27
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD3	9	0.27
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD2	9	0.27
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD3	9	0.27
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	14	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1021)	1:118:A:ALA:HA	1:135:A:ILE:HG12	14	0.27
(1,1021)	1:118:A:ALA:HA	1:135:A:ILE:HG13	14	0.27
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	16	0.27
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	8	0.27
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	8	0.27
(1,964)	1:110:A:PHE:HA	1:112:A:ASP:H	2	0.27
(1,959)	1:109:A:MET:HA	1:112:A:ASP:H	10	0.27
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	7	0.27
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	12	0.27
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	10	0.27
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	10	0.27
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	10	0.27
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	10	0.27
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	1	0.27
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	1	0.27
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	9	0.27
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	17	0.27
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	17	0.27
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	17	0.27
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	17	0.27
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	16	0.27
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	16	0.27
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	13	0.27
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	2	0.27
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	1	0.27
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	15	0.27
(1,742)	1:79:A:THR:HG23	1:81:A:ASP:H	8	0.27
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	6	0.27
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	5	0.27
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	1	0.27
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	6	0.27
(1,709)	1:75:A:SER:H	1:78:A:GLY:H	12	0.27
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	16	0.27
(1,680)	1:74:A:ILE:H	1:76:A:ALA:H	17	0.27
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	19	0.27
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	9	0.27
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	2	0.27
(1,634)	1:71:A:GLU:HA	1:74:A:ILE:HG23	9	0.27
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	5	0.27
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG2	7	0.27
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG3	7	0.27
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG2	7	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG3	7	0.27
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	8	0.27
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	12	0.27
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	13	0.27
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	15	0.27
(1,591)	1:69:A:LYS:H	1:69:A:LYS:HD2	12	0.27
(1,591)	1:69:A:LYS:H	1:69:A:LYS:HD3	12	0.27
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	1	0.27
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	5	0.27
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB2	12	0.27
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB3	12	0.27
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB2	12	0.27
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB3	12	0.27
(1,532)	1:61:A:ASN:HA	1:64:A:LYS:H	15	0.27
(1,496)	1:59:A:PHE:HA	1:67:A:VAL:HB	3	0.27
(1,483)	1:58:A:VAL:HG13	1:73:A:LEU:HG	1	0.27
(1,481)	1:58:A:VAL:HG13	1:58:A:VAL:HG23	14	0.27
(1,479)	1:58:A:VAL:HB	1:86:A:CYS:HA	9	0.27
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	2	0.27
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	2	0.27
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	10	0.27
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	19	0.27
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	7	0.27
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	15	0.27
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	15	0.27
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB2	13	0.27
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB3	13	0.27
(1,392)	1:46:A:GLU:HB2	1:47:A:LYS:H	5	0.27
(1,392)	1:46:A:GLU:HB3	1:47:A:LYS:H	5	0.27
(1,381)	1:45:A:VAL:H	1:45:A:VAL:HB	20	0.27
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	7	0.27
(1,336)	1:38:A:VAL:HB	1:39:A:VAL:H	2	0.27
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB2	3	0.27
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB3	3	0.27
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	13	0.27
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	13	0.27
(1,277)	1:29:A:PHE:HB2	1:58:A:VAL:HG13	11	0.27
(1,277)	1:29:A:PHE:HB3	1:58:A:VAL:HG13	11	0.27
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	10	0.27
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	10	0.27
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	10	0.27
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	8	0.27
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	19	0.27
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	6	0.27
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	6	0.27
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	12	0.27
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	12	0.27
(1,205)	1:22:A:MET:HB2	1:92:A:LYS:H	15	0.27
(1,205)	1:22:A:MET:HB3	1:92:A:LYS:H	15	0.27
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	20	0.27
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	13	0.27
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	13	0.27
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	13	0.27
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	13	0.27
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE2	19	0.27
(1,176)	1:21:A:ARG:HG2	1:23:A:LYS:HE3	19	0.27
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE2	19	0.27
(1,176)	1:21:A:ARG:HG3	1:23:A:LYS:HE3	19	0.27
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	5	0.27
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	5	0.27
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	20	0.27
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	16	0.27
(1,91)	1:15:A:THR:HA	1:17:A:VAL:H	4	0.27
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	8	0.27
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	8	0.27
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	4	0.27
(1,79)	1:14:A:LEU:HA	1:17:A:VAL:HB	4	0.27
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	7	0.27
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	2	0.27
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	2	0.27
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB2	7	0.27
(1,49)	1:12:A:ILE:HG12	1:54:A:GLN:HB3	7	0.27
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB2	7	0.27
(1,49)	1:12:A:ILE:HG13	1:54:A:GLN:HB3	7	0.27
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	12	0.27
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	12	0.27
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	12	0.27
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	19	0.27
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	19	0.27
(1,35)	1:12:A:ILE:H	1:13:A:ARG:H	12	0.27
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	13	0.27
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	13	0.27
(2,72)	1:227:A:LYS:O	1:231:A:LYS:H	10	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,59)	1:180:A:LEU:H	1:208:A:LEU:O	9	0.26
(2,29)	1:84:A:GLU:O	1:88:A:GLN:H	5	0.26
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	11	0.26
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	4	0.26
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	4	0.26
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	11	0.26
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	13	0.26
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	13	0.26
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	13	0.26
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	15	0.26
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	9	0.26
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	6	0.26
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	6	0.26
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	3	0.26
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	2	0.26
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	5	0.26
(1,1920)	1:221:A:GLU:HA	1:224:A:GLU:HB2	6	0.26
(1,1920)	1:221:A:GLU:HA	1:224:A:GLU:HB3	6	0.26
(1,1919)	1:221:A:GLU:HA	1:224:A:GLU:H	2	0.26
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	4	0.26
(1,1891)	1:216:A:PRO:HA	1:217:A:GLY:H	19	0.26
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	2	0.26
(1,1857)	1:208:A:LEU:H	1:208:A:LEU:HD13	10	0.26
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	16	0.26
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB2	6	0.26
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB3	6	0.26
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB2	6	0.26
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB3	6	0.26
(1,1822)	1:203:A:ASP:HA	1:248:A:ASP:HA	1	0.26
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	8	0.26
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	7	0.26
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	9	0.26
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	9	0.26
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	10	0.26
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	10	0.26
(1,1735)	1:199:A:ILE:H	1:199:A:ILE:HD13	7	0.26
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	1	0.26
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	18	0.26
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	3	0.26
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	18	0.26
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	18	0.26
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	18	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	18	0.26
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	20	0.26
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	20	0.26
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	1	0.26
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	2	0.26
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	5	0.26
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	5	0.26
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	11	0.26
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	2	0.26
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	15	0.26
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	3	0.26
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	7	0.26
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	11	0.26
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	4	0.26
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD2	8	0.26
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD3	8	0.26
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	2	0.26
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	4	0.26
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	5	0.26
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	5	0.26
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	9	0.26
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	4	0.26
(1,1563)	1:185:A:GLY:HA2	1:188:A:LEU:HD13	7	0.26
(1,1563)	1:185:A:GLY:HA3	1:188:A:LEU:HD13	7	0.26
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	7	0.26
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	14	0.26
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	13	0.26
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	13	0.26
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB2	1	0.26
(1,1512)	1:180:A:LEU:HD23	1:184:A:GLU:HB3	1	0.26
(1,1493)	1:178:A:PHE:HA	1:236:A:LEU:HA	3	0.26
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	3	0.26
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	3	0.26
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	3	0.26
(1,1443)	1:175:A:ARG:HG2	1:211:A:VAL:HG13	3	0.26
(1,1443)	1:175:A:ARG:HG3	1:211:A:VAL:HG13	3	0.26
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	16	0.26
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	16	0.26
(1,1431)	1:174:A:MET:HB2	1:175:A:ARG:HB2	11	0.26
(1,1431)	1:174:A:MET:HB2	1:175:A:ARG:HB3	11	0.26
(1,1431)	1:174:A:MET:HB3	1:175:A:ARG:HB2	11	0.26
(1,1431)	1:174:A:MET:HB3	1:175:A:ARG:HB3	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	10	0.26
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	10	0.26
(1,1400)	1:169:A:ILE:H	1:170:A:GLU:HA	8	0.26
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	9	0.26
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG2	8	0.26
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG3	8	0.26
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	10	0.26
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	10	0.26
(1,1369)	1:164:A:LYS:HA	1:168:A:LYS:HA	12	0.26
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	2	0.26
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	10	0.26
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	10	0.26
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	10	0.26
(1,1311)	1:159:A:VAL:HB	1:160:A:ILE:HB	17	0.26
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	10	0.26
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	10	0.26
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	16	0.26
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	16	0.26
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	20	0.26
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	20	0.26
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	16	0.26
(1,1299)	1:158:A:GLU:H	1:161:A:LYS:H	13	0.26
(1,1293)	1:157:A:LEU:HA	1:160:A:ILE:HB	4	0.26
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	5	0.26
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	14	0.26
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	7	0.26
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	11	0.26
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	7	0.26
(1,1271)	1:155:A:GLN:H	1:156:A:ALA:H	8	0.26
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	14	0.26
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	6	0.26
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	3	0.26
(1,1214)	1:142:A:ILE:HD13	1:162:A:GLN:HA	9	0.26
(1,1211)	1:142:A:ILE:HA	1:142:A:ILE:HD13	15	0.26
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB2	15	0.26
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB3	15	0.26
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	8	0.26
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	13	0.26
(1,1176)	1:137:A:ARG:HD2	1:138:A:ALA:HB3	6	0.26
(1,1176)	1:137:A:ARG:HD3	1:138:A:ALA:HB3	6	0.26
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	20	0.26
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	3	0.26
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	20	0.26
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	20	0.26
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	20	0.26
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	9	0.26
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	15	0.26
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	9	0.26
(1,1092)	1:132:A:VAL:HA	1:133:A:ILE:HD13	14	0.26
(1,1079)	1:131:A:THR:H	1:131:A:THR:HG23	19	0.26
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	16	0.26
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	13	0.26
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	16	0.26
(1,1053)	1:122:A:VAL:HG23	1:123:A:ASN:H	1	0.26
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	3	0.26
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	3	0.26
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	18	0.26
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	5	0.26
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	5	0.26
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	3	0.26
(1,1000)	1:116:A:ILE:HB	1:117:A:VAL:HB	2	0.26
(1,984)	1:114:A:ALA:HB3	1:115:A:THR:H	8	0.26
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG2	1	0.26
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG3	1	0.26
(1,894)	1:90:A:LEU:HG	1:95:A:VAL:HG13	7	0.26
(1,889)	1:90:A:LEU:HA	1:92:A:LYS:H	15	0.26
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD13	4	0.26
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD23	4	0.26
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD13	5	0.26
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD23	5	0.26
(1,886)	1:90:A:LEU:H	1:93:A:GLY:H	3	0.26
(1,885)	1:90:A:LEU:H	1:91:A:THR:H	20	0.26
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	20	0.26
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	20	0.26
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	2	0.26
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	2	0.26
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG2	7	0.26
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG3	7	0.26
(1,781)	1:84:A:GLU:H	1:85:A:ILE:H	7	0.26
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	15	0.26
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	15	0.26
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	9	0.26
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	12	0.26
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	7	0.26
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	16	0.26
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	7	0.26
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	19	0.26
(1,710)	1:75:A:SER:H	1:79:A:THR:H	1	0.26
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	5	0.26
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	18	0.26
(1,665)	1:73:A:LEU:HG	1:75:A:SER:H	7	0.26
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	1	0.26
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	8	0.26
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	14	0.26
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	18	0.26
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	20	0.26
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	20	0.26
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	14	0.26
(1,604)	1:69:A:LYS:HG3	1:71:A:GLU:H	5	0.26
(1,604)	1:69:A:LYS:HG2	1:71:A:GLU:H	5	0.26
(1,604)	1:69:A:LYS:HG3	1:71:A:GLU:H	5	0.26
(1,604)	1:69:A:LYS:HG2	1:71:A:GLU:H	5	0.26
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	11	0.26
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	11	0.26
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	7	0.26
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	6	0.26
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	6	0.26
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	10	0.26
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	10	0.26
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	11	0.26
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	11	0.26
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	11	0.26
(1,495)	1:59:A:PHE:HA	1:67:A:VAL:HA	6	0.26
(1,451)	1:53:A:LEU:HD13	1:55:A:THR:HG23	10	0.26
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	11	0.26
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	11	0.26
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	6	0.26
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	7	0.26
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	7	0.26
(1,363)	1:41:A:TRP:HA	1:46:A:GLU:HA	19	0.26
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	15	0.26
(1,338)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	20	0.26
(1,331)	1:34:A:TYR:H	1:53:A:LEU:HA	12	0.26
(1,316)	1:32:A:ALA:HB3	1:55:A:THR:H	17	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,310)	1:32:A:ALA:HA	1:32:A:ALA:HB3	8	0.26
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	4	0.26
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	1	0.26
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	1	0.26
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	11	0.26
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	12	0.26
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	1	0.26
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	7	0.26
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	18	0.26
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	18	0.26
(1,261)	1:28:A:ARG:H	1:60:A:VAL:HA	20	0.26
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	13	0.26
(1,226)	1:23:A:LYS:HB2	1:24:A:ARG:H	9	0.26
(1,226)	1:23:A:LYS:HB3	1:24:A:ARG:H	9	0.26
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	8	0.26
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	6	0.26
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	6	0.26
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	9	0.26
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	15	0.26
(1,173)	1:21:A:ARG:HB2	1:89:A:ILE:HG23	16	0.26
(1,173)	1:21:A:ARG:HB3	1:89:A:ILE:HG23	16	0.26
(1,172)	1:21:A:ARG:HB2	1:30:A:GLU:HA	14	0.26
(1,172)	1:21:A:ARG:HB3	1:30:A:GLU:HA	14	0.26
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	7	0.26
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	7	0.26
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	12	0.26
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	12	0.26
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	18	0.26
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	15	0.26
(1,132)	1:20:A:VAL:H	1:31:A:ILE:H	10	0.26
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	16	0.26
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	2	0.26
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	12	0.26
(1,74)	1:14:A:LEU:H	1:15:A:THR:H	18	0.26
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	19	0.26
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	19	0.26
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	16	0.26
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	16	0.26
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	16	0.26
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	16	0.26
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	11	0.26
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	11	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG2	7	0.26
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG3	7	0.26
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	15	0.26
(1,17)	1:7:A:THR:HG23	1:15:A:THR:HB	14	0.26
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	20	0.26
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	20	0.26
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	19	0.26
(2,67)	1:220:A:ARG:O	1:224:A:GLU:H	14	0.25
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	20	0.25
(2,51)	1:175:A:ARG:O	1:239:A:LEU:H	6	0.25
(2,42)	1:133:A:ILE:O	1:137:A:ARG:H	17	0.25
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	15	0.25
(2,16)	1:61:A:ASN:H	1:66:A:GLN:O	8	0.25
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	19	0.25
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	2	0.25
(2,5)	1:22:A:MET:O	1:29:A:PHE:H	8	0.25
(1,2195)	1:248:A:ASP:H	1:249:A:GLU:HA	10	0.25
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	5	0.25
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	15	0.25
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	15	0.25
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	1	0.25
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	1	0.25
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	1	0.25
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB2	15	0.25
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB3	15	0.25
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	7	0.25
(1,2052)	1:228:A:LYS:HA	1:233:A:LYS:H	3	0.25
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	17	0.25
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	16	0.25
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	16	0.25
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	2	0.25
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	2	0.25
(1,1951)	1:224:A:GLU:H	1:227:A:LYS:HG2	5	0.25
(1,1951)	1:224:A:GLU:H	1:227:A:LYS:HG3	5	0.25
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	11	0.25
(1,1915)	1:221:A:GLU:H	1:222:A:ILE:H	13	0.25
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB2	12	0.25
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB3	12	0.25
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	2	0.25
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	2	0.25
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	17	0.25
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	19	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	10	0.25
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	14	0.25
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	17	0.25
(1,1863)	1:208:A:LEU:HB2	1:208:A:LEU:HD13	8	0.25
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB2	20	0.25
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB3	20	0.25
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB2	20	0.25
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB3	20	0.25
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	3	0.25
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	7	0.25
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	7	0.25
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	3	0.25
(1,1691)	1:193:A:LYS:HD2	1:208:A:LEU:HD13	15	0.25
(1,1691)	1:193:A:LYS:HD3	1:208:A:LEU:HD13	15	0.25
(1,1663)	1:191:A:LYS:HB2	1:192:A:LEU:H	16	0.25
(1,1663)	1:191:A:LYS:HB3	1:192:A:LEU:H	16	0.25
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	8	0.25
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	5	0.25
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	2	0.25
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	20	0.25
(1,1605)	1:188:A:LEU:HA	1:230:A:THR:HB	11	0.25
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	15	0.25
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	19	0.25
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	19	0.25
(1,1589)	1:187:A:LYS:HA	1:189:A:LYS:H	11	0.25
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	7	0.25
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	15	0.25
(1,1576)	1:186:A:LYS:HA	1:189:A:LYS:H	16	0.25
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	10	0.25
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	16	0.25
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	19	0.25
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	14	0.25
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	14	0.25
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	11	0.25
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	11	0.25
(1,1493)	1:178:A:PHE:HA	1:236:A:LEU:HA	7	0.25
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	3	0.25
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	7	0.25
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	19	0.25
(1,1484)	1:178:A:PHE:H	1:209:A:GLU:HA	14	0.25
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	17	0.25
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	17	0.25
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	17	0.25
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	2	0.25
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	11	0.25
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	3	0.25
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG2	1	0.25
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG3	1	0.25
(1,1382)	1:165:A:GLU:HB2	1:166:A:LYS:H	20	0.25
(1,1382)	1:165:A:GLU:HB3	1:166:A:LYS:H	20	0.25
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	8	0.25
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	8	0.25
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	6	0.25
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	6	0.25
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	5	0.25
(1,1298)	1:158:A:GLU:H	1:160:A:ILE:H	1	0.25
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	6	0.25
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	8	0.25
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	15	0.25
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	15	0.25
(1,1256)	1:153:A:LYS:HA	1:156:A:ALA:HB3	20	0.25
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	19	0.25
(1,1210)	1:142:A:ILE:H	1:166:A:LYS:HB2	15	0.25
(1,1210)	1:142:A:ILE:H	1:166:A:LYS:HB3	15	0.25
(1,1208)	1:141:A:ASP:HB2	1:166:A:LYS:HE2	18	0.25
(1,1208)	1:141:A:ASP:HB2	1:166:A:LYS:HE3	18	0.25
(1,1208)	1:141:A:ASP:HB3	1:166:A:LYS:HE2	18	0.25
(1,1208)	1:141:A:ASP:HB3	1:166:A:LYS:HE3	18	0.25
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	15	0.25
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	16	0.25
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	16	0.25
(1,1169)	1:137:A:ARG:HB2	1:138:A:ALA:H	7	0.25
(1,1169)	1:137:A:ARG:HB3	1:138:A:ALA:H	7	0.25
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	16	0.25
(1,1110)	1:133:A:ILE:H	1:135:A:ILE:H	9	0.25
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	5	0.25
(1,1075)	1:129:A:PRO:HG2	1:130:A:TYR:HA	18	0.25
(1,1075)	1:129:A:PRO:HG3	1:130:A:TYR:HA	18	0.25
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	20	0.25
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB2	6	0.25
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB3	6	0.25
(1,1021)	1:118:A:ALA:HA	1:135:A:ILE:HG12	2	0.25
(1,1021)	1:118:A:ALA:HA	1:135:A:ILE:HG13	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	6	0.25
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	6	0.25
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	13	0.25
(1,996)	1:116:A:ILE:H	1:116:A:ILE:HG23	11	0.25
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	17	0.25
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	20	0.25
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	12	0.25
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	7	0.25
(1,937)	1:95:A:VAL:HB	1:97:A:VAL:HG13	9	0.25
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	6	0.25
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	6	0.25
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB2	20	0.25
(1,905)	1:91:A:THR:HG23	1:92:A:LYS:HB3	20	0.25
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	16	0.25
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	16	0.25
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	16	0.25
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	16	0.25
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	12	0.25
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	18	0.25
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	4	0.25
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	4	0.25
(1,833)	1:87:A:LYS:HA	1:91:A:THR:HG23	8	0.25
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	17	0.25
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	13	0.25
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	13	0.25
(1,802)	1:85:A:ILE:HA	1:88:A:GLN:H	17	0.25
(1,800)	1:85:A:ILE:H	1:88:A:GLN:H	6	0.25
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	1	0.25
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	9	0.25
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	6	0.25
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB2	10	0.25
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB3	10	0.25
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB2	10	0.25
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB3	10	0.25
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	12	0.25
(1,703)	1:74:A:ILE:HD13	1:79:A:THR:HA	6	0.25
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	14	0.25
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	14	0.25
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	14	0.25
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	1	0.25
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	1	0.25
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	9	0.25
(1,658)	1:73:A:LEU:HA	1:73:A:LEU:HD13	12	0.25
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	8	0.25
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	15	0.25
(1,652)	1:73:A:LEU:H	1:74:A:ILE:H	13	0.25
(1,632)	1:71:A:GLU:HA	1:74:A:ILE:H	19	0.25
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	1	0.25
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	1	0.25
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	3	0.25
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	3	0.25
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	18	0.25
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	18	0.25
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	4	0.25
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	13	0.25
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	19	0.25
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	19	0.25
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	14	0.25
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	14	0.25
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	14	0.25
(1,516)	1:60:A:VAL:HB	1:68:A:ALA:H	15	0.25
(1,496)	1:59:A:PHE:HA	1:67:A:VAL:HB	4	0.25
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	8	0.25
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	8	0.25
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	10	0.25
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	10	0.25
(1,415)	1:49:A:LEU:HA	1:52:A:VAL:HG23	10	0.25
(1,414)	1:49:A:LEU:HA	1:52:A:VAL:HA	8	0.25
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB2	2	0.25
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB3	2	0.25
(1,358)	1:41:A:TRP:H	1:44:A:GLY:H	7	0.25
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	18	0.25
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	8	0.25
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	7	0.25
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	7	0.25
(1,297)	1:30:A:GLU:HG2	1:62:A:VAL:HB	17	0.25
(1,297)	1:30:A:GLU:HG3	1:62:A:VAL:HB	17	0.25
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	3	0.25
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB2	8	0.25
(1,234)	1:23:A:LYS:HE2	1:28:A:ARG:HB3	8	0.25
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB2	8	0.25
(1,234)	1:23:A:LYS:HE3	1:28:A:ARG:HB3	8	0.25
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	11	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	11	0.25
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	11	0.25
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	11	0.25
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	7	0.25
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	7	0.25
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	19	0.25
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	14	0.25
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB2	2	0.25
(1,161)	1:21:A:ARG:H	1:30:A:GLU:HB3	2	0.25
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	10	0.25
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	11	0.25
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	11	0.25
(1,117)	1:19:A:VAL:H	1:20:A:VAL:HB	11	0.25
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	15	0.25
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	20	0.25
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	20	0.25
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	20	0.25
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	20	0.25
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG2	8	0.25
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG3	8	0.25
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG2	17	0.25
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG3	17	0.25
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	18	0.25
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	16	0.24
(2,26)	1:81:A:ASP:O	1:85:A:ILE:H	1	0.24
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	19	0.24
(2,16)	1:61:A:ASN:H	1:66:A:GLN:O	2	0.24
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	12	0.24
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB2	7	0.24
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB3	7	0.24
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB2	7	0.24
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB3	7	0.24
(1,2214)	1:250:A:LYS:HA	1:251:A:PHE:H	11	0.24
(1,2212)	1:250:A:LYS:H	1:251:A:PHE:HA	18	0.24
(1,2208)	1:249:A:GLU:HG2	1:250:A:LYS:H	11	0.24
(1,2208)	1:249:A:GLU:HG3	1:250:A:LYS:H	11	0.24
(1,2197)	1:248:A:ASP:HA	1:249:A:GLU:H	15	0.24
(1,2191)	1:247:A:GLY:HA2	1:249:A:GLU:H	12	0.24
(1,2191)	1:247:A:GLY:HA3	1:249:A:GLU:H	12	0.24
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	10	0.24
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	10	0.24
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	10	0.24
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	16	0.24
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	6	0.24
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	17	0.24
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	17	0.24
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	14	0.24
(1,2096)	1:231:A:LYS:HG2	1:232:A:GLY:H	5	0.24
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	10	0.24
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	15	0.24
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	10	0.24
(1,2070)	1:230:A:THR:H	1:231:A:LYS:H	13	0.24
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	20	0.24
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	5	0.24
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	5	0.24
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	9	0.24
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	7	0.24
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	7	0.24
(1,1955)	1:224:A:GLU:HA	1:227:A:LYS:HE2	13	0.24
(1,1955)	1:224:A:GLU:HA	1:227:A:LYS:HE3	13	0.24
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	12	0.24
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	12	0.24
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG12	12	0.24
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG13	12	0.24
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	18	0.24
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	12	0.24
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	13	0.24
(1,1901)	1:219:A:PHE:H	1:222:A:ILE:H	6	0.24
(1,1901)	1:219:A:PHE:H	1:222:A:ILE:H	14	0.24
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	13	0.24
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	13	0.24
(1,1874)	1:210:A:ILE:HB	1:211:A:VAL:HA	3	0.24
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	10	0.24
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	10	0.24
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	17	0.24
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	3	0.24
(1,1863)	1:208:A:LEU:HB2	1:208:A:LEU:HD13	2	0.24
(1,1854)	1:207:A:GLN:HA	1:208:A:LEU:H	11	0.24
(1,1854)	1:207:A:GLN:HA	1:208:A:LEU:H	17	0.24
(1,1846)	1:205:A:GLY:H	1:208:A:LEU:H	13	0.24
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	13	0.24
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	11	0.24
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB2	12	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB3	12	0.24
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	17	0.24
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	17	0.24
(1,1783)	1:201:A:SER:HB2	1:210:A:ILE:HA	4	0.24
(1,1783)	1:201:A:SER:HB3	1:210:A:ILE:HA	4	0.24
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	19	0.24
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	7	0.24
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	12	0.24
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	10	0.24
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	20	0.24
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	9	0.24
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	18	0.24
(1,1690)	1:193:A:LYS:HG2	1:198:A:VAL:HG13	20	0.24
(1,1690)	1:193:A:LYS:HG3	1:198:A:VAL:HG13	20	0.24
(1,1690)	1:193:A:LYS:HG2	1:198:A:VAL:HG23	20	0.24
(1,1690)	1:193:A:LYS:HG3	1:198:A:VAL:HG23	20	0.24
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE2	13	0.24
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE3	13	0.24
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE2	13	0.24
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE3	13	0.24
(1,1678)	1:192:A:LEU:HD13	1:198:A:VAL:HG13	8	0.24
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	6	0.24
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	6	0.24
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	11	0.24
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	20	0.24
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	8	0.24
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	8	0.24
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	8	0.24
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	8	0.24
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	18	0.24
(1,1611)	1:188:A:LEU:HG	1:189:A:LYS:HA	12	0.24
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	2	0.24
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	13	0.24
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	12	0.24
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	14	0.24
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	9	0.24
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	9	0.24
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	15	0.24
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	20	0.24
(1,1541)	1:182:A:VAL:HG13	1:182:A:VAL:HG23	11	0.24
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	1	0.24
(1,1514)	1:180:A:LEU:HD23	1:188:A:LEU:H	4	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	6	0.24
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	5	0.24
(1,1442)	1:175:A:ARG:HG2	1:199:A:ILE:HD13	2	0.24
(1,1442)	1:175:A:ARG:HG3	1:199:A:ILE:HD13	2	0.24
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	10	0.24
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	10	0.24
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	10	0.24
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	2	0.24
(1,1378)	1:165:A:GLU:H	1:166:A:LYS:H	15	0.24
(1,1369)	1:164:A:LYS:HA	1:168:A:LYS:HA	9	0.24
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	3	0.24
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	3	0.24
(1,1327)	1:161:A:LYS:H	1:162:A:GLN:H	3	0.24
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG2	3	0.24
(1,1321)	1:160:A:ILE:HB	1:161:A:LYS:HG3	3	0.24
(1,1308)	1:159:A:VAL:H	1:162:A:GLN:H	3	0.24
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	3	0.24
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	5	0.24
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	18	0.24
(1,1286)	1:156:A:ALA:HA	1:160:A:ILE:H	13	0.24
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	4	0.24
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	4	0.24
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	3	0.24
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	15	0.24
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	9	0.24
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	9	0.24
(1,1168)	1:137:A:ARG:HB2	1:137:A:ARG:HD2	14	0.24
(1,1168)	1:137:A:ARG:HB2	1:137:A:ARG:HD3	14	0.24
(1,1168)	1:137:A:ARG:HB3	1:137:A:ARG:HD2	14	0.24
(1,1168)	1:137:A:ARG:HB3	1:137:A:ARG:HD3	14	0.24
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	5	0.24
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	20	0.24
(1,1075)	1:129:A:PRO:HG2	1:130:A:TYR:HA	8	0.24
(1,1075)	1:129:A:PRO:HG3	1:130:A:TYR:HA	8	0.24
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB2	14	0.24
(1,1066)	1:126:A:THR:HG23	1:127:A:LYS:HB3	14	0.24
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB2	9	0.24
(1,1054)	1:122:A:VAL:HG23	1:216:A:PRO:HB3	9	0.24
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	4	0.24
(1,986)	1:114:A:ALA:HB3	1:132:A:VAL:HB	17	0.24
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	6	0.24
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	6	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	6	0.24
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	6	0.24
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	7	0.24
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	7	0.24
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	7	0.24
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	7	0.24
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	16	0.24
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	16	0.24
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	16	0.24
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	16	0.24
(1,964)	1:110:A:PHE:HA	1:112:A:ASP:H	3	0.24
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	9	0.24
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	6	0.24
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	6	0.24
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	7	0.24
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	7	0.24
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	15	0.24
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	15	0.24
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	19	0.24
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	16	0.24
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	19	0.24
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	13	0.24
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	20	0.24
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	17	0.24
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	17	0.24
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	17	0.24
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	17	0.24
(1,901)	1:91:A:THR:H	1:93:A:GLY:H	1	0.24
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	13	0.24
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	13	0.24
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	1	0.24
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	20	0.24
(1,888)	1:90:A:LEU:HA	1:91:A:THR:HG23	20	0.24
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	4	0.24
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	20	0.24
(1,799)	1:85:A:ILE:H	1:87:A:LYS:HB2	11	0.24
(1,799)	1:85:A:ILE:H	1:87:A:LYS:HB3	11	0.24
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	5	0.24
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	12	0.24
(1,764)	1:82:A:GLN:H	1:85:A:ILE:H	6	0.24
(1,754)	1:81:A:ASP:H	1:84:A:GLU:HB2	13	0.24
(1,754)	1:81:A:ASP:H	1:84:A:GLU:HB3	13	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,753)	1:81:A:ASP:H	1:84:A:GLU:H	1	0.24
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	7	0.24
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	7	0.24
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	10	0.24
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	2	0.24
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	12	0.24
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	5	0.24
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	3	0.24
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	4	0.24
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	8	0.24
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	8	0.24
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	13	0.24
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	15	0.24
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	12	0.24
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	16	0.24
(1,642)	1:72:A:ASP:H	1:75:A:SER:H	11	0.24
(1,623)	1:70:A:LYS:HG2	1:71:A:GLU:HA	11	0.24
(1,623)	1:70:A:LYS:HG3	1:71:A:GLU:HA	11	0.24
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	2	0.24
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	6	0.24
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	11	0.24
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	8	0.24
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	8	0.24
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	2	0.24
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	1	0.24
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	1	0.24
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	12	0.24
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	14	0.24
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB2	4	0.24
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB3	4	0.24
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	7	0.24
(1,514)	1:60:A:VAL:HB	1:66:A:GLN:H	5	0.24
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	18	0.24
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	7	0.24
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	7	0.24
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	20	0.24
(1,497)	1:59:A:PHE:HA	1:67:A:VAL:HG13	13	0.24
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	4	0.24
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	4	0.24
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG2	17	0.24
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG3	17	0.24
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	9	0.24
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	9	0.24
(1,452)	1:53:A:LEU:HD13	1:56:A:HIS:HA	16	0.24
(1,452)	1:53:A:LEU:HD23	1:56:A:HIS:HA	16	0.24
(1,413)	1:49:A:LEU:HA	1:49:A:LEU:HD13	7	0.24
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	9	0.24
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	9	0.24
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	16	0.24
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	16	0.24
(1,371)	1:43:A:SER:HA	1:44:A:GLY:H	18	0.24
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG2	16	0.24
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG3	16	0.24
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG2	16	0.24
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG3	16	0.24
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD13	16	0.24
(1,346)	1:38:A:VAL:HG23	1:90:A:LEU:HD23	16	0.24
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	5	0.24
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	14	0.24
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	14	0.24
(1,323)	1:33:A:CYS:HA	1:53:A:LEU:HA	13	0.24
(1,298)	1:30:A:GLU:HG2	1:62:A:VAL:HG23	9	0.24
(1,298)	1:30:A:GLU:HG3	1:62:A:VAL:HG23	9	0.24
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	4	0.24
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	4	0.24
(1,256)	1:27:A:LYS:HG2	1:60:A:VAL:HA	6	0.24
(1,256)	1:27:A:LYS:HG3	1:60:A:VAL:HA	6	0.24
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	7	0.24
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	7	0.24
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	7	0.24
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	7	0.24
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	5	0.24
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	5	0.24
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	7	0.24
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	7	0.24
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	7	0.24
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	7	0.24
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	7	0.24
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	11	0.24
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	12	0.24
(1,183)	1:22:A:MET:H	1:29:A:PHE:H	1	0.24
(1,174)	1:21:A:ARG:HG2	1:22:A:MET:HA	10	0.24
(1,174)	1:21:A:ARG:HG3	1:22:A:MET:HA	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,173)	1:21:A:ARG:HB2	1:89:A:ILE:HG23	14	0.24
(1,173)	1:21:A:ARG:HB3	1:89:A:ILE:HG23	14	0.24
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	20	0.24
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	20	0.24
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	9	0.24
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	11	0.24
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	11	0.24
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	3	0.24
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	8	0.24
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	8	0.24
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	8	0.24
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	10	0.24
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	10	0.24
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	7	0.24
(1,83)	1:14:A:LEU:HG	1:17:A:VAL:HG23	3	0.24
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	1	0.24
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	1	0.24
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	1	0.24
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	1	0.24
(1,19)	1:8:A:PRO:HG2	1:15:A:THR:HG23	17	0.24
(1,19)	1:8:A:PRO:HG3	1:15:A:THR:HG23	17	0.24
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	4	0.23
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	1	0.23
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	3	0.23
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	5	0.23
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	12	0.23
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	17	0.23
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	8	0.23
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	18	0.23
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	13	0.23
(2,18)	1:61:A:ASN:O	1:66:A:GLN:H	7	0.23
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	10	0.23
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	16	0.23
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	15	0.23
(2,3)	1:20:A:VAL:O	1:31:A:ILE:H	10	0.23
(1,2226)	1:251:A:PHE:HB2	1:252:A:GLU:H	1	0.23
(1,2212)	1:250:A:LYS:H	1:251:A:PHE:HA	17	0.23
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	18	0.23
(1,2140)	1:240:A:ASN:HA	1:241:A:LEU:H	7	0.23
(1,2116)	1:236:A:LEU:H	1:236:A:LEU:HG	20	0.23
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	16	0.23
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	11	0.23
(1,2081)	1:231:A:LYS:H	1:233:A:LYS:H	3	0.23
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	10	0.23
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	17	0.23
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	17	0.23
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	17	0.23
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	13	0.23
(1,2038)	1:227:A:LYS:HG2	1:228:A:LYS:H	12	0.23
(1,2038)	1:227:A:LYS:HG3	1:228:A:LYS:H	12	0.23
(1,2027)	1:227:A:LYS:HA	1:227:A:LYS:HE2	8	0.23
(1,2027)	1:227:A:LYS:HA	1:227:A:LYS:HE3	8	0.23
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	2	0.23
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	10	0.23
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	10	0.23
(1,1989)	1:226:A:ILE:H	1:227:A:LYS:HG2	5	0.23
(1,1989)	1:226:A:ILE:H	1:227:A:LYS:HG3	5	0.23
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	4	0.23
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	4	0.23
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG2	17	0.23
(1,1978)	1:225:A:LEU:HG	1:229:A:GLU:HG3	17	0.23
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG2	11	0.23
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG3	11	0.23
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	1	0.23
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	14	0.23
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	14	0.23
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	9	0.23
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	9	0.23
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	13	0.23
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	13	0.23
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	5	0.23
(1,1863)	1:208:A:LEU:HB2	1:208:A:LEU:HD13	14	0.23
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	4	0.23
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	12	0.23
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	7	0.23
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	15	0.23
(1,1812)	1:203:A:ASP:H	1:210:A:ILE:H	4	0.23
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	13	0.23
(1,1803)	1:202:A:GLU:HB2	1:248:A:ASP:H	16	0.23
(1,1803)	1:202:A:GLU:HB3	1:248:A:ASP:H	16	0.23
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	10	0.23
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	19	0.23
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1744)	1:199:A:ILE:HA	1:200:A:GLU:HB2	1	0.23
(1,1744)	1:199:A:ILE:HA	1:200:A:GLU:HB3	1	0.23
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	18	0.23
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	10	0.23
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG3	7	0.23
(1,1673)	1:192:A:LEU:H	1:229:A:GLU:HG2	7	0.23
(1,1663)	1:191:A:LYS:HB2	1:192:A:LEU:H	17	0.23
(1,1663)	1:191:A:LYS:HB3	1:192:A:LEU:H	17	0.23
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	12	0.23
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	5	0.23
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	13	0.23
(1,1642)	1:189:A:LYS:HD2	1:208:A:LEU:HD13	6	0.23
(1,1642)	1:189:A:LYS:HD3	1:208:A:LEU:HD13	6	0.23
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	5	0.23
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	19	0.23
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	4	0.23
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	14	0.23
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	17	0.23
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	19	0.23
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	11	0.23
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG2	10	0.23
(1,1597)	1:188:A:LEU:H	1:190:A:GLU:HG3	10	0.23
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	20	0.23
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	10	0.23
(1,1588)	1:187:A:LYS:H	1:189:A:LYS:HB2	17	0.23
(1,1588)	1:187:A:LYS:H	1:189:A:LYS:HB3	17	0.23
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	2	0.23
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	7	0.23
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	10	0.23
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	20	0.23
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	5	0.23
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	5	0.23
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	18	0.23
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	18	0.23
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB2	10	0.23
(1,1464)	1:176:A:LEU:HD23	1:236:A:LEU:HB3	10	0.23
(1,1462)	1:176:A:LEU:HG	1:237:A:GLU:H	6	0.23
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	13	0.23
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	14	0.23
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	14	0.23
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	17	0.23
(1,1414)	1:171:A:ARG:H	1:172:A:ALA:HA	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	3	0.23
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	11	0.23
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	14	0.23
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	14	0.23
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	13	0.23
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	13	0.23
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	20	0.23
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE2	6	0.23
(1,1331)	1:161:A:LYS:HA	1:161:A:LYS:HE3	6	0.23
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	15	0.23
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	15	0.23
(1,1326)	1:161:A:LYS:H	1:161:A:LYS:HG2	6	0.23
(1,1326)	1:161:A:LYS:H	1:161:A:LYS:HG3	6	0.23
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	3	0.23
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	12	0.23
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	9	0.23
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	9	0.23
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	11	0.23
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	1	0.23
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	1	0.23
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	9	0.23
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	9	0.23
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	2	0.23
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	11	0.23
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	11	0.23
(1,1247)	1:153:A:LYS:H	1:153:A:LYS:HG3	13	0.23
(1,1247)	1:153:A:LYS:H	1:153:A:LYS:HG2	13	0.23
(1,1236)	1:146:A:VAL:HG23	1:159:A:VAL:HA	7	0.23
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB2	15	0.23
(1,1234)	1:146:A:VAL:HG13	1:147:A:LYS:HB3	15	0.23
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	14	0.23
(1,1205)	1:141:A:ASP:H	1:142:A:ILE:HB	9	0.23
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	17	0.23
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	13	0.23
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	18	0.23
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	18	0.23
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	5	0.23
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	10	0.23
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB2	14	0.23
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB3	14	0.23
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	11	0.23
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	11	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1130)	1:133:A:ILE:HD13	1:134:A:LEU:H	18	0.23
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	10	0.23
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	12	0.23
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	19	0.23
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	8	0.23
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	10	0.23
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	20	0.23
(1,1097)	1:132:A:VAL:HG13	1:132:A:VAL:HG23	1	0.23
(1,1097)	1:132:A:VAL:HG13	1:132:A:VAL:HG23	4	0.23
(1,1097)	1:132:A:VAL:HG13	1:132:A:VAL:HG23	8	0.23
(1,1097)	1:132:A:VAL:HG13	1:132:A:VAL:HG23	17	0.23
(1,1093)	1:132:A:VAL:HA	1:135:A:ILE:HB	16	0.23
(1,1080)	1:131:A:THR:H	1:133:A:ILE:H	1	0.23
(1,1077)	1:130:A:TYR:H	1:131:A:THR:HA	4	0.23
(1,1072)	1:128:A:ARG:HA	1:129:A:PRO:HA	3	0.23
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	5	0.23
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	5	0.23
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	5	0.23
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	5	0.23
(1,1029)	1:119:A:ASP:H	1:120:A:LYS:H	17	0.23
(1,1025)	1:118:A:ALA:HB3	1:132:A:VAL:HA	3	0.23
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	20	0.23
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	7	0.23
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	7	0.23
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB2	8	0.23
(1,1009)	1:117:A:VAL:HA	1:119:A:ASP:HB3	8	0.23
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	16	0.23
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	13	0.23
(1,964)	1:110:A:PHE:HA	1:112:A:ASP:H	19	0.23
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	5	0.23
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	2	0.23
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	2	0.23
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	8	0.23
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	8	0.23
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	8	0.23
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG2	15	0.23
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG3	15	0.23
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	14	0.23
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	14	0.23
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	6	0.23
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	20	0.23
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	20	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB2	18	0.23
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB3	18	0.23
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	4	0.23
(1,781)	1:84:A:GLU:H	1:85:A:ILE:H	9	0.23
(1,781)	1:84:A:GLU:H	1:85:A:ILE:H	19	0.23
(1,780)	1:84:A:GLU:H	1:84:A:GLU:HG2	20	0.23
(1,780)	1:84:A:GLU:H	1:84:A:GLU:HG3	20	0.23
(1,771)	1:83:A:THR:H	1:83:A:THR:HG23	8	0.23
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	3	0.23
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	3	0.23
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB2	18	0.23
(1,741)	1:79:A:THR:HB	1:81:A:ASP:HB3	18	0.23
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	4	0.23
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	17	0.23
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	19	0.23
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	19	0.23
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	15	0.23
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	9	0.23
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	13	0.23
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	12	0.23
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	7	0.23
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	12	0.23
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	20	0.23
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	5	0.23
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	16	0.23
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	18	0.23
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB2	19	0.23
(1,536)	1:61:A:ASN:HB2	1:66:A:GLN:HB3	19	0.23
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB2	19	0.23
(1,536)	1:61:A:ASN:HB3	1:66:A:GLN:HB3	19	0.23
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	15	0.23
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	16	0.23
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	20	0.23
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	1	0.23
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	1	0.23
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	1	0.23
(1,496)	1:59:A:PHE:HA	1:67:A:VAL:HB	2	0.23
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	5	0.23
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	5	0.23
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	12	0.23
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	15	0.23
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,429)	1:52:A:VAL:H	1:52:A:VAL:HB	9	0.23
(1,412)	1:49:A:LEU:H	1:50:A:ASP:H	6	0.23
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	3	0.23
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	3	0.23
(1,400)	1:47:A:LYS:HG2	1:48:A:ASP:HB2	10	0.23
(1,400)	1:47:A:LYS:HG2	1:48:A:ASP:HB3	10	0.23
(1,400)	1:47:A:LYS:HG3	1:48:A:ASP:HB2	10	0.23
(1,400)	1:47:A:LYS:HG3	1:48:A:ASP:HB3	10	0.23
(1,394)	1:46:A:GLU:HG2	1:47:A:LYS:H	2	0.23
(1,394)	1:46:A:GLU:HG3	1:47:A:LYS:H	2	0.23
(1,394)	1:46:A:GLU:HG2	1:47:A:LYS:H	11	0.23
(1,394)	1:46:A:GLU:HG3	1:47:A:LYS:H	11	0.23
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG3	17	0.23
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG2	17	0.23
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG3	17	0.23
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG2	17	0.23
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE2	2	0.23
(1,373)	1:43:A:SER:HA	1:153:A:LYS:HE3	2	0.23
(1,371)	1:43:A:SER:HA	1:44:A:GLY:H	10	0.23
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	18	0.23
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	18	0.23
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB2	20	0.23
(1,364)	1:41:A:TRP:HA	1:46:A:GLU:HB3	20	0.23
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	16	0.23
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB2	8	0.23
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB3	8	0.23
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	9	0.23
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	9	0.23
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	11	0.23
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	11	0.23
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	15	0.23
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	9	0.23
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	9	0.23
(1,252)	1:27:A:LYS:HB2	1:28:A:ARG:H	9	0.23
(1,252)	1:27:A:LYS:HB3	1:28:A:ARG:H	9	0.23
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	13	0.23
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	13	0.23
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG2	9	0.23
(1,219)	1:23:A:LYS:HA	1:24:A:ARG:HG3	9	0.23
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	18	0.23
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	18	0.23
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	3	0.23
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	15	0.23
(1,145)	1:20:A:VAL:HB	1:95:A:VAL:HG23	17	0.23
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	9	0.23
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	11	0.23
(1,142)	1:20:A:VAL:HB	1:89:A:ILE:HG23	9	0.23
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	8	0.23
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	8	0.23
(1,64)	1:13:A:ARG:HA	1:15:A:THR:H	8	0.23
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	8	0.23
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	8	0.23
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	8	0.23
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	8	0.23
(1,41)	1:12:A:ILE:HA	1:13:A:ARG:H	18	0.23
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	6	0.23
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	5	0.23
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	5	0.23
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	13	0.23
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	13	0.23
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	20	0.23
(2,67)	1:220:A:ARG:O	1:224:A:GLU:H	10	0.22
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	13	0.22
(2,60)	1:180:A:LEU:O	1:208:A:LEU:H	19	0.22
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	4	0.22
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	13	0.22
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	18	0.22
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	1	0.22
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	7	0.22
(2,43)	1:151:A:SER:O	1:155:A:GLN:H	7	0.22
(2,35)	1:111:A:ARG:O	1:115:A:THR:H	3	0.22
(2,16)	1:61:A:ASN:H	1:66:A:GLN:O	3	0.22
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	1	0.22
(1,2200)	1:248:A:ASP:HA	1:250:A:LYS:H	18	0.22
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	15	0.22
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	19	0.22
(1,2126)	1:236:A:LEU:HD13	1:238:A:VAL:HA	9	0.22
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	9	0.22
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	3	0.22
(1,2085)	1:231:A:LYS:HA	1:233:A:LYS:H	3	0.22
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	17	0.22
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	1	0.22
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE2	19	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE3	19	0.22
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE2	19	0.22
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE3	19	0.22
(1,2031)	1:227:A:LYS:HA	1:231:A:LYS:HE2	12	0.22
(1,2031)	1:227:A:LYS:HA	1:231:A:LYS:HE3	12	0.22
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG2	5	0.22
(1,1921)	1:221:A:GLU:HA	1:224:A:GLU:HG3	5	0.22
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	15	0.22
(1,1915)	1:221:A:GLU:H	1:222:A:ILE:H	11	0.22
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	15	0.22
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	15	0.22
(1,1893)	1:216:A:PRO:HA	1:219:A:PHE:H	12	0.22
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB2	2	0.22
(1,1889)	1:214:A:ILE:H	1:219:A:PHE:HB3	2	0.22
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	6	0.22
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	6	0.22
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	4	0.22
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	10	0.22
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	6	0.22
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	8	0.22
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	6	0.22
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	4	0.22
(1,1831)	1:204:A:TYR:H	1:204:A:TYR:HD1	16	0.22
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	19	0.22
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	19	0.22
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB3	14	0.22
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB2	14	0.22
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	14	0.22
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	3	0.22
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	4	0.22
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	4	0.22
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	8	0.22
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	8	0.22
(1,1775)	1:201:A:SER:H	1:210:A:ILE:HA	9	0.22
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	15	0.22
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	13	0.22
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	20	0.22
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	5	0.22
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	1	0.22
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB2	14	0.22
(1,1704)	1:195:A:LEU:HD13	1:197:A:LYS:HB3	14	0.22
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	11	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1665)	1:191:A:LYS:HB2	1:229:A:GLU:HG2	12	0.22
(1,1665)	1:191:A:LYS:HB2	1:229:A:GLU:HG3	12	0.22
(1,1665)	1:191:A:LYS:HB3	1:229:A:GLU:HG2	12	0.22
(1,1665)	1:191:A:LYS:HB3	1:229:A:GLU:HG3	12	0.22
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	18	0.22
(1,1621)	1:189:A:LYS:H	1:190:A:GLU:HG2	9	0.22
(1,1621)	1:189:A:LYS:H	1:190:A:GLU:HG3	9	0.22
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	13	0.22
(1,1580)	1:186:A:LYS:HA	1:190:A:GLU:H	16	0.22
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	14	0.22
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	6	0.22
(1,1542)	1:182:A:VAL:HG13	1:183:A:ASN:HA	13	0.22
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	6	0.22
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	18	0.22
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	18	0.22
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB2	9	0.22
(1,1495)	1:179:A:ILE:H	1:209:A:GLU:HB3	9	0.22
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	11	0.22
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	2	0.22
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	2	0.22
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	16	0.22
(1,1408)	1:169:A:ILE:HD13	1:170:A:GLU:HA	6	0.22
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	13	0.22
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	15	0.22
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	15	0.22
(1,1361)	1:163:A:LEU:HD23	1:168:A:LYS:HA	19	0.22
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	16	0.22
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	16	0.22
(1,1327)	1:161:A:LYS:H	1:162:A:GLN:H	11	0.22
(1,1317)	1:160:A:ILE:H	1:162:A:GLN:H	4	0.22
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	3	0.22
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	18	0.22
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	19	0.22
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	19	0.22
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	19	0.22
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	4	0.22
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	6	0.22
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	6	0.22
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	5	0.22
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	5	0.22
(1,1268)	1:154:A:GLN:HA	1:156:A:ALA:H	8	0.22
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE2	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE3	18	0.22
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE2	18	0.22
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE3	18	0.22
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	17	0.22
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	20	0.22
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	15	0.22
(1,1208)	1:141:A:ASP:HB2	1:166:A:LYS:HE2	15	0.22
(1,1208)	1:141:A:ASP:HB2	1:166:A:LYS:HE3	15	0.22
(1,1208)	1:141:A:ASP:HB3	1:166:A:LYS:HE2	15	0.22
(1,1208)	1:141:A:ASP:HB3	1:166:A:LYS:HE3	15	0.22
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	16	0.22
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	16	0.22
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	17	0.22
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	17	0.22
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	8	0.22
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	2	0.22
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	5	0.22
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	5	0.22
(1,1134)	1:135:A:ILE:H	1:136:A:GLU:H	5	0.22
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	20	0.22
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	10	0.22
(1,1097)	1:132:A:VAL:HG13	1:132:A:VAL:HG23	16	0.22
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	15	0.22
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	5	0.22
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG2	10	0.22
(1,1010)	1:117:A:VAL:HA	1:120:A:LYS:HG3	10	0.22
(1,1004)	1:117:A:VAL:H	1:118:A:ALA:H	9	0.22
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB2	14	0.22
(1,976)	1:111:A:ARG:HB2	1:136:A:GLU:HB3	14	0.22
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB2	14	0.22
(1,976)	1:111:A:ARG:HB3	1:136:A:GLU:HB3	14	0.22
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	16	0.22
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	13	0.22
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	4	0.22
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	4	0.22
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	5	0.22
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	5	0.22
(1,945)	1:96:A:GLN:H	1:97:A:VAL:HG13	16	0.22
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG2	1	0.22
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG3	1	0.22
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	5	0.22
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG2	15	0.22
(1,908)	1:92:A:LYS:H	1:92:A:LYS:HG3	15	0.22
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	17	0.22
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	13	0.22
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	13	0.22
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD13	12	0.22
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD23	12	0.22
(1,885)	1:90:A:LEU:H	1:91:A:THR:H	16	0.22
(1,877)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	19	0.22
(1,877)	1:89:A:ILE:HG13	1:89:A:ILE:HG23	19	0.22
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	16	0.22
(1,850)	1:88:A:GLN:H	1:91:A:THR:H	12	0.22
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	19	0.22
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	19	0.22
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	1	0.22
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB2	12	0.22
(1,830)	1:87:A:LYS:HA	1:90:A:LEU:HB3	12	0.22
(1,819)	1:86:A:CYS:HB2	1:89:A:ILE:HD13	16	0.22
(1,819)	1:86:A:CYS:HB3	1:89:A:ILE:HD13	16	0.22
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	19	0.22
(1,781)	1:84:A:GLU:H	1:85:A:ILE:H	2	0.22
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	11	0.22
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	16	0.22
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	1	0.22
(1,763)	1:82:A:GLN:H	1:84:A:GLU:H	5	0.22
(1,763)	1:82:A:GLN:H	1:84:A:GLU:H	9	0.22
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	14	0.22
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	14	0.22
(1,743)	1:79:A:THR:HG23	1:84:A:GLU:HB2	3	0.22
(1,743)	1:79:A:THR:HG23	1:84:A:GLU:HB3	3	0.22
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	5	0.22
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	20	0.22
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	20	0.22
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	11	0.22
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	11	0.22
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	18	0.22
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	18	0.22
(1,671)	1:73:A:LEU:HD13	1:80:A:ASP:HA	19	0.22
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	3	0.22
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	20	0.22
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	2	0.22
(1,640)	1:72:A:ASP:H	1:73:A:LEU:HA	17	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	19	0.22
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	17	0.22
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	17	0.22
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	17	0.22
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	17	0.22
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	12	0.22
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	12	0.22
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	4	0.22
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	11	0.22
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	19	0.22
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	19	0.22
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	17	0.22
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	19	0.22
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	9	0.22
(1,522)	1:60:A:VAL:HG23	1:68:A:ALA:HB3	19	0.22
(1,520)	1:60:A:VAL:HG23	1:66:A:GLN:HB2	10	0.22
(1,520)	1:60:A:VAL:HG23	1:66:A:GLN:HB3	10	0.22
(1,514)	1:60:A:VAL:HB	1:66:A:GLN:H	2	0.22
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	5	0.22
(1,495)	1:59:A:PHE:HA	1:67:A:VAL:HA	3	0.22
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	18	0.22
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	16	0.22
(1,424)	1:51:A:GLU:H	1:52:A:VAL:H	6	0.22
(1,419)	1:50:A:ASP:H	1:53:A:LEU:H	18	0.22
(1,412)	1:49:A:LEU:H	1:50:A:ASP:H	3	0.22
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	15	0.22
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	15	0.22
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	7	0.22
(1,299)	1:31:A:ILE:H	1:31:A:ILE:HB	13	0.22
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	6	0.22
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	6	0.22
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	11	0.22
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	7	0.22
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	18	0.22
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	18	0.22
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	18	0.22
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	18	0.22
(1,185)	1:22:A:MET:H	1:29:A:PHE:HB2	3	0.22
(1,185)	1:22:A:MET:H	1:29:A:PHE:HB3	3	0.22
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	5	0.22
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE2	13	0.22
(1,180)	1:22:A:MET:H	1:23:A:LYS:HE3	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	17	0.22
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	17	0.22
(1,173)	1:21:A:ARG:HB2	1:89:A:ILE:HG23	15	0.22
(1,173)	1:21:A:ARG:HB3	1:89:A:ILE:HG23	15	0.22
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	9	0.22
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	9	0.22
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	9	0.22
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	4	0.22
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	4	0.22
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	7	0.22
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	7	0.22
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	18	0.22
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	5	0.22
(1,82)	1:14:A:LEU:HB2	1:17:A:VAL:HG23	20	0.22
(1,82)	1:14:A:LEU:HB3	1:17:A:VAL:HG23	20	0.22
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	13	0.22
(1,71)	1:13:A:ARG:HG2	1:14:A:LEU:H	12	0.22
(1,71)	1:13:A:ARG:HG3	1:14:A:LEU:H	12	0.22
(1,57)	1:13:A:ARG:H	1:13:A:ARG:HB2	8	0.22
(1,57)	1:13:A:ARG:H	1:13:A:ARG:HB3	8	0.22
(1,40)	1:12:A:ILE:HA	1:12:A:ILE:HD13	4	0.22
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	2	0.22
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	2	0.22
(1,32)	1:12:A:ILE:H	1:12:A:ILE:HG12	18	0.22
(1,32)	1:12:A:ILE:H	1:12:A:ILE:HG13	18	0.22
(1,20)	1:8:A:PRO:HD2	1:15:A:THR:HB	2	0.22
(1,20)	1:8:A:PRO:HD3	1:15:A:THR:HB	2	0.22
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	14	0.22
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	14	0.22
(1,13)	1:7:A:THR:HB	1:15:A:THR:HB	11	0.22
(1,10)	1:7:A:THR:HA	1:15:A:THR:HB	8	0.22
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	11	0.22
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	6	0.21
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	17	0.21
(2,50)	1:159:A:VAL:O	1:163:A:LEU:H	9	0.21
(2,22)	1:72:A:ASP:O	1:76:A:ALA:H	19	0.21
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	13	0.21
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	13	0.21
(2,12)	1:41:A:TRP:O	1:44:A:GLY:H	1	0.21
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	19	0.21
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB2	1	0.21
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB3	1	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB2	1	0.21
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB3	1	0.21
(1,2212)	1:250:A:LYS:H	1:251:A:PHE:HA	11	0.21
(1,2195)	1:248:A:ASP:H	1:249:A:GLU:HA	8	0.21
(1,2187)	1:246:A:GLU:HG2	1:248:A:ASP:H	5	0.21
(1,2187)	1:246:A:GLU:HG3	1:248:A:ASP:H	5	0.21
(1,2169)	1:244:A:VAL:HG13	1:245:A:GLU:H	19	0.21
(1,2133)	1:237:A:GLU:HG2	1:238:A:VAL:H	6	0.21
(1,2133)	1:237:A:GLU:HG3	1:238:A:VAL:H	6	0.21
(1,2133)	1:237:A:GLU:HG2	1:238:A:VAL:H	15	0.21
(1,2133)	1:237:A:GLU:HG3	1:238:A:VAL:H	15	0.21
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	10	0.21
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB2	1	0.21
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB3	1	0.21
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	4	0.21
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	2	0.21
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	8	0.21
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	1	0.21
(1,2032)	1:227:A:LYS:HA	1:232:A:GLY:H	3	0.21
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	1	0.21
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	19	0.21
(1,2023)	1:227:A:LYS:H	1:228:A:LYS:HG2	20	0.21
(1,2023)	1:227:A:LYS:H	1:228:A:LYS:HG3	20	0.21
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	16	0.21
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG2	7	0.21
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG3	7	0.21
(1,1924)	1:221:A:GLU:HB2	1:222:A:ILE:HB	7	0.21
(1,1924)	1:221:A:GLU:HB3	1:222:A:ILE:HB	7	0.21
(1,1924)	1:221:A:GLU:HB2	1:222:A:ILE:HB	11	0.21
(1,1924)	1:221:A:GLU:HB3	1:222:A:ILE:HB	11	0.21
(1,1924)	1:221:A:GLU:HB2	1:222:A:ILE:HB	13	0.21
(1,1924)	1:221:A:GLU:HB3	1:222:A:ILE:HB	13	0.21
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	17	0.21
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	7	0.21
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	16	0.21
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	7	0.21
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	7	0.21
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	10	0.21
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	10	0.21
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	11	0.21
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	19	0.21
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	16	0.21
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	20	0.21
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	1	0.21
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	5	0.21
(1,1826)	1:203:A:ASP:HB2	1:208:A:LEU:HA	15	0.21
(1,1826)	1:203:A:ASP:HB3	1:208:A:LEU:HA	15	0.21
(1,1815)	1:203:A:ASP:H	1:210:A:ILE:HG12	19	0.21
(1,1815)	1:203:A:ASP:H	1:210:A:ILE:HG13	19	0.21
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	11	0.21
(1,1808)	1:203:A:ASP:H	1:208:A:LEU:HA	4	0.21
(1,1796)	1:202:A:GLU:HA	1:210:A:ILE:HB	4	0.21
(1,1784)	1:201:A:SER:HB2	1:211:A:VAL:H	4	0.21
(1,1784)	1:201:A:SER:HB3	1:211:A:VAL:H	4	0.21
(1,1778)	1:201:A:SER:H	1:248:A:ASP:H	7	0.21
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	20	0.21
(1,1760)	1:199:A:ILE:HD13	1:212:A:CYS:HA	10	0.21
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	16	0.21
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	16	0.21
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	19	0.21
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	14	0.21
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	4	0.21
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	4	0.21
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	4	0.21
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	18	0.21
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	10	0.21
(1,1612)	1:188:A:LEU:HG	1:210:A:ILE:HD13	9	0.21
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	1	0.21
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	18	0.21
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	1	0.21
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	20	0.21
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	9	0.21
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	2	0.21
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	3	0.21
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	9	0.21
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	16	0.21
(1,1542)	1:182:A:VAL:HG13	1:183:A:ASN:HA	9	0.21
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	5	0.21
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB2	18	0.21
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB3	18	0.21
(1,1520)	1:181:A:PRO:HA	1:207:A:GLN:HA	18	0.21
(1,1511)	1:180:A:LEU:HB2	1:185:A:GLY:H	5	0.21
(1,1511)	1:180:A:LEU:HB3	1:185:A:GLY:H	5	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1502)	1:179:A:ILE:HA	1:179:A:ILE:HD13	10	0.21
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	20	0.21
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	20	0.21
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	20	0.21
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	20	0.21
(1,1475)	1:177:A:ARG:HA	1:210:A:ILE:HA	18	0.21
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	2	0.21
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	7	0.21
(1,1445)	1:175:A:ARG:HG2	1:176:A:LEU:H	13	0.21
(1,1445)	1:175:A:ARG:HG2	1:176:A:LEU:H	14	0.21
(1,1443)	1:175:A:ARG:HG2	1:211:A:VAL:HG13	6	0.21
(1,1443)	1:175:A:ARG:HG3	1:211:A:VAL:HG13	6	0.21
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	5	0.21
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	5	0.21
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	18	0.21
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	18	0.21
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	3	0.21
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	3	0.21
(1,1426)	1:173:A:HIS:HB2	1:215:A:ASP:HA	9	0.21
(1,1426)	1:173:A:HIS:HB3	1:215:A:ASP:HA	9	0.21
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	15	0.21
(1,1403)	1:169:A:ILE:HB	1:169:A:ILE:HD13	2	0.21
(1,1400)	1:169:A:ILE:H	1:170:A:GLU:HA	1	0.21
(1,1378)	1:165:A:GLU:H	1:166:A:LYS:H	16	0.21
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	5	0.21
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	5	0.21
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	14	0.21
(1,1322)	1:160:A:ILE:HG12	1:161:A:LYS:H	12	0.21
(1,1322)	1:160:A:ILE:HG13	1:161:A:LYS:H	12	0.21
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	15	0.21
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	15	0.21
(1,1298)	1:158:A:GLU:H	1:160:A:ILE:H	14	0.21
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	12	0.21
(1,1268)	1:154:A:GLN:HA	1:156:A:ALA:H	2	0.21
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	19	0.21
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	5	0.21
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	19	0.21
(1,1200)	1:140:A:LYS:HA	1:142:A:ILE:H	3	0.21
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	18	0.21
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	1	0.21
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	1	0.21
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	2	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	2	0.21
(1,1157)	1:137:A:ARG:H	1:137:A:ARG:HB2	14	0.21
(1,1157)	1:137:A:ARG:H	1:137:A:ARG:HB3	14	0.21
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	17	0.21
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	1	0.21
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	1	0.21
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	1	0.21
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	3	0.21
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	3	0.21
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	3	0.21
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	8	0.21
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	8	0.21
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	8	0.21
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	4	0.21
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	3	0.21
(1,1098)	1:132:A:VAL:HG13	1:133:A:ILE:H	14	0.21
(1,1077)	1:130:A:TYR:H	1:131:A:THR:HA	15	0.21
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD2	13	0.21
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD3	13	0.21
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD2	13	0.21
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD3	13	0.21
(1,1067)	1:127:A:LYS:H	1:128:A:ARG:H	19	0.21
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	7	0.21
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	7	0.21
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	7	0.21
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	7	0.21
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD2	1	0.21
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD3	1	0.21
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	19	0.21
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	19	0.21
(1,969)	1:111:A:ARG:HA	1:114:A:ALA:HB3	4	0.21
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	3	0.21
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	3	0.21
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	12	0.21
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	12	0.21
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	19	0.21
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	19	0.21
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG2	16	0.21
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG3	16	0.21
(1,910)	1:92:A:LYS:H	1:93:A:GLY:H	15	0.21
(1,901)	1:91:A:THR:H	1:93:A:GLY:H	19	0.21
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	16	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	16	0.21
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD13	7	0.21
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD23	7	0.21
(1,877)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	14	0.21
(1,877)	1:89:A:ILE:HG13	1:89:A:ILE:HG23	14	0.21
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	7	0.21
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	19	0.21
(1,829)	1:87:A:LYS:HA	1:90:A:LEU:H	18	0.21
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB2	8	0.21
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB3	8	0.21
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	3	0.21
(1,785)	1:84:A:GLU:HA	1:84:A:GLU:HG2	18	0.21
(1,785)	1:84:A:GLU:HA	1:84:A:GLU:HG3	18	0.21
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	9	0.21
(1,763)	1:82:A:GLN:H	1:84:A:GLU:H	13	0.21
(1,760)	1:82:A:GLN:H	1:82:A:GLN:HB2	10	0.21
(1,760)	1:82:A:GLN:H	1:82:A:GLN:HB3	10	0.21
(1,734)	1:79:A:THR:H	1:79:A:THR:HG23	19	0.21
(1,716)	1:75:A:SER:HB2	1:77:A:PHE:H	20	0.21
(1,716)	1:75:A:SER:HB3	1:77:A:PHE:H	20	0.21
(1,694)	1:74:A:ILE:HG12	1:81:A:ASP:H	5	0.21
(1,694)	1:74:A:ILE:HG13	1:81:A:ASP:H	5	0.21
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB2	3	0.21
(1,692)	1:74:A:ILE:HB	1:75:A:SER:HB3	3	0.21
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	5	0.21
(1,663)	1:73:A:LEU:HG	1:74:A:ILE:H	7	0.21
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	5	0.21
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	6	0.21
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	13	0.21
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	11	0.21
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	7	0.21
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	9	0.21
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	15	0.21
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	10	0.21
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	19	0.21
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	20	0.21
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	10	0.21
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	14	0.21
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	9	0.21
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	11	0.21
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	12	0.21
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	16	0.21
(1,412)	1:49:A:LEU:H	1:50:A:ASP:H	8	0.21
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	18	0.21
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB2	8	0.21
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB3	8	0.21
(1,371)	1:43:A:SER:HA	1:44:A:GLY:H	13	0.21
(1,371)	1:43:A:SER:HA	1:44:A:GLY:H	14	0.21
(1,369)	1:43:A:SER:H	1:44:A:GLY:H	4	0.21
(1,365)	1:41:A:TRP:HA	1:46:A:GLU:HG2	10	0.21
(1,365)	1:41:A:TRP:HA	1:46:A:GLU:HG3	10	0.21
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	12	0.21
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	3	0.21
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	3	0.21
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	10	0.21
(1,270)	1:28:A:ARG:HG2	1:61:A:ASN:HA	17	0.21
(1,270)	1:28:A:ARG:HG3	1:61:A:ASN:HA	17	0.21
(1,266)	1:28:A:ARG:HB3	1:29:A:PHE:H	8	0.21
(1,266)	1:28:A:ARG:HB2	1:29:A:PHE:H	8	0.21
(1,266)	1:28:A:ARG:HB3	1:29:A:PHE:H	8	0.21
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	17	0.21
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	17	0.21
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	9	0.21
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	17	0.21
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	17	0.21
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	17	0.21
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	17	0.21
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	19	0.21
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	19	0.21
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	13	0.21
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	10	0.21
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	10	0.21
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	9	0.21
(1,191)	1:22:A:MET:H	1:89:A:ILE:HD13	11	0.21
(1,183)	1:22:A:MET:H	1:29:A:PHE:H	3	0.21
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG2	9	0.21
(1,168)	1:21:A:ARG:H	1:96:A:GLN:HG3	9	0.21
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	6	0.21
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	19	0.21
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	19	0.21
(1,156)	1:20:A:VAL:HG23	1:95:A:VAL:HB	4	0.21
(1,116)	1:19:A:VAL:H	1:19:A:VAL:HG23	10	0.21
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	9	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	20	0.21
(1,98)	1:17:A:VAL:HB	1:55:A:THR:HG23	19	0.21
(1,80)	1:14:A:LEU:HA	1:17:A:VAL:HG23	1	0.21
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	10	0.21
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	15	0.21
(1,73)	1:14:A:LEU:H	1:14:A:LEU:HG	4	0.21
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	7	0.2
(2,71)	1:226:A:ILE:O	1:230:A:THR:H	12	0.2
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	6	0.2
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	8	0.2
(2,68)	1:221:A:GLU:O	1:225:A:LEU:H	16	0.2
(2,67)	1:220:A:ARG:O	1:224:A:GLU:H	4	0.2
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	2	0.2
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	6	0.2
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	16	0.2
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	10	0.2
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	18	0.2
(2,16)	1:61:A:ASN:H	1:66:A:GLN:O	4	0.2
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	13	0.2
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	18	0.2
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	13	0.2
(2,4)	1:21:A:ARG:H	1:94:A:GLU:O	2	0.2
(1,2211)	1:250:A:LYS:H	1:251:A:PHE:H	12	0.2
(1,2208)	1:249:A:GLU:HG2	1:250:A:LYS:H	8	0.2
(1,2208)	1:249:A:GLU:HG3	1:250:A:LYS:H	8	0.2
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	12	0.2
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	12	0.2
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	12	0.2
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	12	0.2
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	12	0.2
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	12	0.2
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	12	0.2
(1,2153)	1:242:A:LYS:HA	1:242:A:LYS:HE2	8	0.2
(1,2153)	1:242:A:LYS:HA	1:242:A:LYS:HE3	8	0.2
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	20	0.2
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	5	0.2
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	5	0.2
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	2	0.2
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	4	0.2
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	16	0.2
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	16	0.2
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB2	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB3	4	0.2
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	6	0.2
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	12	0.2
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	2	0.2
(1,2032)	1:227:A:LYS:HA	1:232:A:GLY:H	13	0.2
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	7	0.2
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	16	0.2
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG2	19	0.2
(1,1982)	1:225:A:LEU:HD13	1:229:A:GLU:HG3	19	0.2
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	19	0.2
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	19	0.2
(1,1916)	1:221:A:GLU:H	1:223:A:ASP:H	14	0.2
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	8	0.2
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	16	0.2
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	20	0.2
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	4	0.2
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	11	0.2
(1,1897)	1:218:A:CYS:H	1:219:A:PHE:H	9	0.2
(1,1874)	1:210:A:ILE:HB	1:211:A:VAL:HA	1	0.2
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	7	0.2
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	7	0.2
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	9	0.2
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	10	0.2
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	19	0.2
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	8	0.2
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB2	13	0.2
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB3	13	0.2
(1,1756)	1:199:A:ILE:HG23	1:211:A:VAL:HB	3	0.2
(1,1751)	1:199:A:ILE:HG23	1:200:A:GLU:H	2	0.2
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	3	0.2
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	18	0.2
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	6	0.2
(1,1730)	1:198:A:VAL:HG13	1:199:A:ILE:H	4	0.2
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	5	0.2
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	9	0.2
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	19	0.2
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	19	0.2
(1,1675)	1:192:A:LEU:HG	1:198:A:VAL:HG13	17	0.2
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	10	0.2
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	10	0.2
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	20	0.2
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	13	0.2
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	3	0.2
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	3	0.2
(1,1656)	1:191:A:LYS:H	1:192:A:LEU:H	4	0.2
(1,1653)	1:190:A:GLU:HA	1:193:A:LYS:H	19	0.2
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG2	19	0.2
(1,1646)	1:190:A:GLU:H	1:191:A:LYS:HG3	19	0.2
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	6	0.2
(1,1636)	1:189:A:LYS:HB2	1:208:A:LEU:HD13	18	0.2
(1,1636)	1:189:A:LYS:HB3	1:208:A:LEU:HD13	18	0.2
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	5	0.2
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	5	0.2
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD3	5	0.2
(1,1630)	1:189:A:LYS:HA	1:193:A:LYS:HD2	5	0.2
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	9	0.2
(1,1604)	1:188:A:LEU:HA	1:193:A:LYS:H	4	0.2
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	20	0.2
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	13	0.2
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	6	0.2
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	12	0.2
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	19	0.2
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	15	0.2
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	18	0.2
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG2	4	0.2
(1,1482)	1:177:A:ARG:HD2	1:209:A:GLU:HG3	4	0.2
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG2	4	0.2
(1,1482)	1:177:A:ARG:HD3	1:209:A:GLU:HG3	4	0.2
(1,1474)	1:177:A:ARG:H	1:239:A:LEU:HB2	9	0.2
(1,1474)	1:177:A:ARG:H	1:239:A:LEU:HB3	9	0.2
(1,1462)	1:176:A:LEU:HG	1:237:A:GLU:H	4	0.2
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	17	0.2
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	17	0.2
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	1	0.2
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	1	0.2
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	3	0.2
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	10	0.2
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	7	0.2
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	7	0.2
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	7	0.2
(1,1439)	1:175:A:ARG:HB2	1:177:A:ARG:H	15	0.2
(1,1439)	1:175:A:ARG:HB3	1:177:A:ARG:H	15	0.2
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1415)	1:171:A:ARG:HA	1:172:A:ALA:H	4	0.2
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	16	0.2
(1,1403)	1:169:A:ILE:HB	1:169:A:ILE:HD13	8	0.2
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	11	0.2
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	20	0.2
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	7	0.2
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	18	0.2
(1,1360)	1:163:A:LEU:HD23	1:167:A:MET:H	12	0.2
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	16	0.2
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	16	0.2
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	1	0.2
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	1	0.2
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	10	0.2
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	10	0.2
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	6	0.2
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	6	0.2
(1,1308)	1:159:A:VAL:H	1:162:A:GLN:H	17	0.2
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	2	0.2
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	2	0.2
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	7	0.2
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	7	0.2
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	10	0.2
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	13	0.2
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	20	0.2
(1,1299)	1:158:A:GLU:H	1:161:A:LYS:H	17	0.2
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	18	0.2
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	18	0.2
(1,1271)	1:155:A:GLN:H	1:156:A:ALA:H	15	0.2
(1,1264)	1:154:A:GLN:H	1:155:A:GLN:H	8	0.2
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE2	1	0.2
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE3	1	0.2
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE2	1	0.2
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE3	1	0.2
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	4	0.2
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	18	0.2
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	3	0.2
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE2	7	0.2
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE3	7	0.2
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	8	0.2
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	8	0.2
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	8	0.2
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	3	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	18	0.2
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	1	0.2
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	1	0.2
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	1	0.2
(1,1169)	1:137:A:ARG:HB2	1:138:A:ALA:H	15	0.2
(1,1169)	1:137:A:ARG:HB3	1:138:A:ALA:H	15	0.2
(1,1169)	1:137:A:ARG:HB2	1:138:A:ALA:H	16	0.2
(1,1169)	1:137:A:ARG:HB3	1:138:A:ALA:H	16	0.2
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	4	0.2
(1,1154)	1:136:A:GLU:HB2	1:139:A:MET:HB2	20	0.2
(1,1154)	1:136:A:GLU:HB2	1:139:A:MET:HB3	20	0.2
(1,1154)	1:136:A:GLU:HB3	1:139:A:MET:HB2	20	0.2
(1,1154)	1:136:A:GLU:HB3	1:139:A:MET:HB3	20	0.2
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	14	0.2
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	2	0.2
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	2	0.2
(1,1119)	1:133:A:ILE:HA	1:137:A:ARG:H	14	0.2
(1,1118)	1:133:A:ILE:HA	1:136:A:GLU:HB2	18	0.2
(1,1118)	1:133:A:ILE:HA	1:136:A:GLU:HB3	18	0.2
(1,1078)	1:130:A:TYR:HA	1:131:A:THR:H	18	0.2
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD2	8	0.2
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD3	8	0.2
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD2	8	0.2
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD3	8	0.2
(1,1063)	1:126:A:THR:H	1:128:A:ARG:H	11	0.2
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB2	19	0.2
(1,1052)	1:122:A:VAL:HG13	1:216:A:PRO:HB3	19	0.2
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	16	0.2
(1,1036)	1:120:A:LYS:HA	1:120:A:LYS:HE2	8	0.2
(1,1036)	1:120:A:LYS:HA	1:120:A:LYS:HE3	8	0.2
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	9	0.2
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	4	0.2
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	4	0.2
(1,973)	1:111:A:ARG:HB2	1:114:A:ALA:H	8	0.2
(1,973)	1:111:A:ARG:HB3	1:114:A:ALA:H	8	0.2
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	4	0.2
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	6	0.2
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	6	0.2
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	6	0.2
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	10	0.2
(1,901)	1:91:A:THR:H	1:93:A:GLY:H	11	0.2
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG2	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,899)	1:91:A:THR:H	1:92:A:LYS:HG3	20	0.2
(1,892)	1:90:A:LEU:HB2	1:91:A:THR:HG23	17	0.2
(1,892)	1:90:A:LEU:HB3	1:91:A:THR:HG23	17	0.2
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	7	0.2
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	5	0.2
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	8	0.2
(1,877)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	6	0.2
(1,877)	1:89:A:ILE:HG13	1:89:A:ILE:HG23	6	0.2
(1,788)	1:84:A:GLU:HA	1:87:A:LYS:H	11	0.2
(1,782)	1:84:A:GLU:H	1:85:A:ILE:HA	1	0.2
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	19	0.2
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	19	0.2
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	17	0.2
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	10	0.2
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	8	0.2
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	13	0.2
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	13	0.2
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	10	0.2
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	3	0.2
(1,685)	1:74:A:ILE:HA	1:76:A:ALA:HB3	7	0.2
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	17	0.2
(1,666)	1:73:A:LEU:HG	1:76:A:ALA:HB3	5	0.2
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	5	0.2
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	3	0.2
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	17	0.2
(1,653)	1:73:A:LEU:H	1:74:A:ILE:HA	11	0.2
(1,646)	1:72:A:ASP:HA	1:76:A:ALA:H	7	0.2
(1,644)	1:72:A:ASP:HA	1:74:A:ILE:HG23	13	0.2
(1,617)	1:70:A:LYS:HA	1:73:A:LEU:HD13	19	0.2
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	14	0.2
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	14	0.2
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	9	0.2
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	9	0.2
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	20	0.2
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	5	0.2
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	17	0.2
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	14	0.2
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	14	0.2
(1,532)	1:61:A:ASN:HA	1:64:A:LYS:H	19	0.2
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB2	2	0.2
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB3	2	0.2
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	11	0.2
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	11	0.2
(1,503)	1:59:A:PHE:HB2	1:62:A:VAL:HB	14	0.2
(1,503)	1:59:A:PHE:HB3	1:62:A:VAL:HB	14	0.2
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	12	0.2
(1,483)	1:58:A:VAL:HG13	1:73:A:LEU:HG	8	0.2
(1,448)	1:53:A:LEU:HG	1:56:A:HIS:HA	9	0.2
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	12	0.2
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	12	0.2
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	3	0.2
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	3	0.2
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	6	0.2
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	6	0.2
(1,397)	1:47:A:LYS:H	1:48:A:ASP:HA	14	0.2
(1,363)	1:41:A:TRP:HA	1:46:A:GLU:HA	13	0.2
(1,358)	1:41:A:TRP:H	1:44:A:GLY:H	3	0.2
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	20	0.2
(1,326)	1:34:A:TYR:H	1:34:A:TYR:HB2	17	0.2
(1,326)	1:34:A:TYR:H	1:34:A:TYR:HB3	17	0.2
(1,324)	1:33:A:CYS:HA	1:54:A:GLN:H	6	0.2
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	4	0.2
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	18	0.2
(1,276)	1:29:A:PHE:HA	1:60:A:VAL:HA	7	0.2
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	10	0.2
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	20	0.2
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	20	0.2
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	11	0.2
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	17	0.2
(1,216)	1:23:A:LYS:H	1:29:A:PHE:H	1	0.2
(1,216)	1:23:A:LYS:H	1:29:A:PHE:H	16	0.2
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	20	0.2
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	20	0.2
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	16	0.2
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	15	0.2
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	15	0.2
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	11	0.2
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	12	0.2
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	12	0.2
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	13	0.2
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	13	0.2
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	8	0.2
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	12	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	6	0.2
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	6	0.2
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG2	13	0.2
(1,28)	1:11:A:GLN:H	1:13:A:ARG:HG3	13	0.2
(1,26)	1:11:A:GLN:H	1:13:A:ARG:H	13	0.2
(2,66)	1:219:A:PHE:O	1:223:A:ASP:H	18	0.19
(2,60)	1:180:A:LEU:O	1:208:A:LEU:H	16	0.19
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	2	0.19
(2,33)	1:109:A:MET:O	1:113:A:ILE:H	11	0.19
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	2	0.19
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	5	0.19
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB2	11	0.19
(1,2224)	1:251:A:PHE:HB2	1:252:A:GLU:HB3	11	0.19
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB2	11	0.19
(1,2224)	1:251:A:PHE:HB3	1:252:A:GLU:HB3	11	0.19
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	19	0.19
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	17	0.19
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	5	0.19
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	3	0.19
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	11	0.19
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	14	0.19
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	16	0.19
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	16	0.19
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	14	0.19
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	9	0.19
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	9	0.19
(1,2027)	1:227:A:LYS:HA	1:227:A:LYS:HE2	20	0.19
(1,2027)	1:227:A:LYS:HA	1:227:A:LYS:HE3	20	0.19
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	8	0.19
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	8	0.19
(1,1957)	1:224:A:GLU:HB2	1:225:A:LEU:HA	8	0.19
(1,1957)	1:224:A:GLU:HB3	1:225:A:LEU:HA	8	0.19
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	16	0.19
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	16	0.19
(1,1943)	1:223:A:ASP:HA	1:226:A:ILE:HB	6	0.19
(1,1922)	1:221:A:GLU:HB2	1:222:A:ILE:H	13	0.19
(1,1922)	1:221:A:GLU:HB3	1:222:A:ILE:H	13	0.19
(1,1919)	1:221:A:GLU:HA	1:224:A:GLU:H	3	0.19
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	5	0.19
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	13	0.19
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB2	10	0.19
(1,1886)	1:213:A:LEU:H	1:213:A:LEU:HB3	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	16	0.19
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	16	0.19
(1,1874)	1:210:A:ILE:HB	1:211:A:VAL:HA	16	0.19
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	7	0.19
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	8	0.19
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	17	0.19
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	20	0.19
(1,1849)	1:205:A:GLY:HA2	1:207:A:GLN:H	9	0.19
(1,1849)	1:205:A:GLY:HA3	1:207:A:GLN:H	9	0.19
(1,1849)	1:205:A:GLY:HA2	1:207:A:GLN:H	16	0.19
(1,1849)	1:205:A:GLY:HA3	1:207:A:GLN:H	16	0.19
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	6	0.19
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	6	0.19
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB3	15	0.19
(1,1823)	1:203:A:ASP:HA	1:248:A:ASP:HB2	15	0.19
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	14	0.19
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	14	0.19
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB3	14	0.19
(1,1818)	1:203:A:ASP:H	1:248:A:ASP:HB2	14	0.19
(1,1814)	1:203:A:ASP:H	1:210:A:ILE:HB	17	0.19
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	4	0.19
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	20	0.19
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB2	14	0.19
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB3	14	0.19
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	10	0.19
(1,1743)	1:199:A:ILE:HA	1:199:A:ILE:HG23	3	0.19
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	7	0.19
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	4	0.19
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	6	0.19
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	6	0.19
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	6	0.19
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	6	0.19
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	13	0.19
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	13	0.19
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	13	0.19
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	13	0.19
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	5	0.19
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	20	0.19
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	19	0.19
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG2	7	0.19
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG3	7	0.19
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB2	11	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB3	11	0.19
(1,1625)	1:189:A:LYS:HA	1:192:A:LEU:H	6	0.19
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	3	0.19
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	10	0.19
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	8	0.19
(1,1606)	1:188:A:LEU:C	1:188:A:LEU:CD2	8	0.19
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	19	0.19
(1,1593)	1:188:A:LEU:H	1:188:A:LEU:HD13	7	0.19
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	12	0.19
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	16	0.19
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	19	0.19
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	19	0.19
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	19	0.19
(1,1520)	1:181:A:PRO:HA	1:207:A:GLN:HA	20	0.19
(1,1511)	1:180:A:LEU:HB2	1:185:A:GLY:H	18	0.19
(1,1511)	1:180:A:LEU:HB3	1:185:A:GLY:H	18	0.19
(1,1509)	1:180:A:LEU:H	1:208:A:LEU:HA	7	0.19
(1,1493)	1:178:A:PHE:HA	1:236:A:LEU:HA	19	0.19
(1,1489)	1:178:A:PHE:H	1:211:A:VAL:HA	7	0.19
(1,1457)	1:176:A:LEU:HB2	1:236:A:LEU:HD13	4	0.19
(1,1457)	1:176:A:LEU:HB3	1:236:A:LEU:HD13	4	0.19
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	12	0.19
(1,1431)	1:174:A:MET:HB2	1:175:A:ARG:HB2	9	0.19
(1,1431)	1:174:A:MET:HB2	1:175:A:ARG:HB3	9	0.19
(1,1431)	1:174:A:MET:HB3	1:175:A:ARG:HB2	9	0.19
(1,1431)	1:174:A:MET:HB3	1:175:A:ARG:HB3	9	0.19
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	7	0.19
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	7	0.19
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	17	0.19
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	17	0.19
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG2	4	0.19
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG3	4	0.19
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	16	0.19
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	12	0.19
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	12	0.19
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	13	0.19
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	13	0.19
(1,1339)	1:161:A:LYS:HG2	1:164:A:LYS:HB2	15	0.19
(1,1339)	1:161:A:LYS:HG2	1:164:A:LYS:HB3	15	0.19
(1,1339)	1:161:A:LYS:HG3	1:164:A:LYS:HB2	15	0.19
(1,1339)	1:161:A:LYS:HG3	1:164:A:LYS:HB3	15	0.19
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1297)	1:158:A:GLU:H	1:159:A:VAL:H	20	0.19
(1,1296)	1:157:A:LEU:HD13	1:160:A:ILE:HB	2	0.19
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	20	0.19
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	18	0.19
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	18	0.19
(1,1274)	1:155:A:GLN:HA	1:159:A:VAL:H	3	0.19
(1,1271)	1:155:A:GLN:H	1:156:A:ALA:H	17	0.19
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	11	0.19
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	5	0.19
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	9	0.19
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE2	3	0.19
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE3	3	0.19
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	20	0.19
(1,1225)	1:144:A:TYR:HE1	1:145:A:SER:H	15	0.19
(1,1205)	1:141:A:ASP:H	1:142:A:ILE:HB	18	0.19
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	5	0.19
(1,1195)	1:140:A:LYS:H	1:141:A:ASP:H	12	0.19
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	11	0.19
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB2	19	0.19
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB3	19	0.19
(1,1185)	1:138:A:ALA:HA	1:140:A:LYS:H	6	0.19
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB2	16	0.19
(1,1178)	1:137:A:ARG:HD2	1:141:A:ASP:HB3	16	0.19
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB2	16	0.19
(1,1178)	1:137:A:ARG:HD3	1:141:A:ASP:HB3	16	0.19
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	1	0.19
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	1	0.19
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	5	0.19
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	5	0.19
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	1	0.19
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	4	0.19
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	19	0.19
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	8	0.19
(1,1114)	1:133:A:ILE:HA	1:133:A:ILE:HD13	11	0.19
(1,1109)	1:133:A:ILE:H	1:134:A:LEU:HA	4	0.19
(1,1097)	1:132:A:VAL:HG13	1:132:A:VAL:HG23	12	0.19
(1,1093)	1:132:A:VAL:HA	1:135:A:ILE:HB	11	0.19
(1,1078)	1:130:A:TYR:HA	1:131:A:THR:H	7	0.19
(1,1078)	1:130:A:TYR:HA	1:131:A:THR:H	13	0.19
(1,1078)	1:130:A:TYR:HA	1:131:A:THR:H	14	0.19
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD2	6	0.19
(1,1073)	1:128:A:ARG:HG2	1:129:A:PRO:HD3	6	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD2	6	0.19
(1,1073)	1:128:A:ARG:HG3	1:129:A:PRO:HD3	6	0.19
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	10	0.19
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG13	14	0.19
(1,1045)	1:122:A:VAL:H	1:122:A:VAL:HG23	14	0.19
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	16	0.19
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	16	0.19
(1,1028)	1:118:A:ALA:HB3	1:133:A:ILE:H	4	0.19
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	20	0.19
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	4	0.19
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	17	0.19
(1,966)	1:111:A:ARG:H	1:112:A:ASP:HA	20	0.19
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	15	0.19
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG13	13	0.19
(1,948)	1:97:A:VAL:H	1:97:A:VAL:HG23	13	0.19
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	1	0.19
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	1	0.19
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	16	0.19
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD13	6	0.19
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD23	6	0.19
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD13	19	0.19
(1,887)	1:90:A:LEU:HA	1:90:A:LEU:HD23	19	0.19
(1,885)	1:90:A:LEU:H	1:91:A:THR:H	6	0.19
(1,879)	1:89:A:ILE:HG23	1:90:A:LEU:HA	12	0.19
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	7	0.19
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	14	0.19
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	14	0.19
(1,840)	1:87:A:LYS:HG2	1:91:A:THR:HG23	11	0.19
(1,840)	1:87:A:LYS:HG3	1:91:A:THR:HG23	11	0.19
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	13	0.19
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	13	0.19
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	13	0.19
(1,805)	1:85:A:ILE:HG21	1:88:A:GLN:HB2	16	0.19
(1,805)	1:85:A:ILE:HG21	1:88:A:GLN:HB3	16	0.19
(1,805)	1:85:A:ILE:HG22	1:88:A:GLN:HB2	16	0.19
(1,805)	1:85:A:ILE:HG22	1:88:A:GLN:HB3	16	0.19
(1,794)	1:85:A:ILE:H	1:85:A:ILE:HB	8	0.19
(1,781)	1:84:A:GLU:H	1:85:A:ILE:H	4	0.19
(1,764)	1:82:A:GLN:H	1:85:A:ILE:H	1	0.19
(1,764)	1:82:A:GLN:H	1:85:A:ILE:H	9	0.19
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB2	16	0.19
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB3	16	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB2	16	0.19
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB3	16	0.19
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	18	0.19
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	18	0.19
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	3	0.19
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	13	0.19
(1,707)	1:75:A:SER:H	1:76:A:ALA:HB3	12	0.19
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	18	0.19
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	20	0.19
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	5	0.19
(1,675)	1:74:A:ILE:H	1:74:A:ILE:HG23	7	0.19
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB2	19	0.19
(1,672)	1:73:A:LEU:HD13	1:80:A:ASP:HB3	19	0.19
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	18	0.19
(1,667)	1:73:A:LEU:HG	1:80:A:ASP:HA	16	0.19
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	11	0.19
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	15	0.19
(1,640)	1:72:A:ASP:H	1:73:A:LEU:HA	3	0.19
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	6	0.19
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	3	0.19
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	5	0.19
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	13	0.19
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	18	0.19
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	18	0.19
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	1	0.19
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	2	0.19
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	3	0.19
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	8	0.19
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	12	0.19
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	4	0.19
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	19	0.19
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB2	5	0.19
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB3	5	0.19
(1,525)	1:61:A:ASN:H	1:62:A:VAL:HA	19	0.19
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	15	0.19
(1,519)	1:60:A:VAL:HG23	1:61:A:ASN:H	6	0.19
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	11	0.19
(1,513)	1:60:A:VAL:HA	1:68:A:ALA:H	15	0.19
(1,493)	1:59:A:PHE:HA	1:60:A:VAL:HB	4	0.19
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	5	0.19
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	12	0.19
(1,463)	1:55:A:THR:H	1:57:A:SER:H	13	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,463)	1:55:A:THR:H	1:57:A:SER:H	19	0.19
(1,399)	1:47:A:LYS:HG2	1:48:A:ASP:H	19	0.19
(1,399)	1:47:A:LYS:HG3	1:48:A:ASP:H	19	0.19
(1,397)	1:47:A:LYS:H	1:48:A:ASP:HA	3	0.19
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	5	0.19
(1,371)	1:43:A:SER:HA	1:44:A:GLY:H	6	0.19
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	4	0.19
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	10	0.19
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB2	18	0.19
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB3	18	0.19
(1,317)	1:32:A:ALA:HB3	1:55:A:THR:HG23	17	0.19
(1,290)	1:30:A:GLU:HA	1:89:A:ILE:HB	10	0.19
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	6	0.19
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	5	0.19
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	5	0.19
(1,243)	1:24:A:ARG:HB2	1:27:A:LYS:H	2	0.19
(1,243)	1:24:A:ARG:HB3	1:27:A:LYS:H	2	0.19
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	15	0.19
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	18	0.19
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	6	0.19
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	5	0.19
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	10	0.19
(1,171)	1:21:A:ARG:HB2	1:30:A:GLU:H	9	0.19
(1,171)	1:21:A:ARG:HB3	1:30:A:GLU:H	9	0.19
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	1	0.19
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	1	0.19
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	2	0.19
(1,142)	1:20:A:VAL:HB	1:89:A:ILE:HG23	16	0.19
(1,141)	1:20:A:VAL:HB	1:38:A:VAL:HG23	8	0.19
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	7	0.19
(1,133)	1:20:A:VAL:H	1:32:A:ALA:HB3	3	0.19
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	15	0.19
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	15	0.19
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	6	0.19
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	8	0.19
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB2	7	0.19
(1,114)	1:18:A:ALA:HB3	1:33:A:CYS:HB3	7	0.19
(1,108)	1:18:A:ALA:HA	1:20:A:VAL:H	20	0.19
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	11	0.19
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB2	9	0.19
(1,68)	1:13:A:ARG:HB2	1:14:A:LEU:HB3	9	0.19
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB2	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,68)	1:13:A:ARG:HB3	1:14:A:LEU:HB3	9	0.19
(1,56)	1:12:A:ILE:HD13	1:54:A:GLN:HA	12	0.19
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	20	0.19
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	11	0.19
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	11	0.19
(1,29)	1:11:A:GLN:HA	1:12:A:ILE:HB	3	0.19
(1,25)	1:11:A:GLN:H	1:12:A:ILE:H	4	0.19
(1,22)	1:9:A:THR:HA	1:9:A:THR:HG23	8	0.19
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	9	0.19
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	15	0.19
(2,64)	1:203:A:ASP:O	1:209:A:GLU:H	2	0.18
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	8	0.18
(2,57)	1:179:A:ILE:H	1:235:A:SER:O	3	0.18
(2,47)	1:156:A:ALA:O	1:160:A:ILE:H	4	0.18
(2,47)	1:156:A:ALA:O	1:160:A:ILE:H	9	0.18
(2,40)	1:131:A:THR:O	1:135:A:ILE:H	11	0.18
(2,36)	1:112:A:ASP:O	1:116:A:ILE:H	16	0.18
(2,35)	1:111:A:ARG:O	1:115:A:THR:H	5	0.18
(2,22)	1:72:A:ASP:O	1:76:A:ALA:H	17	0.18
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	7	0.18
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	1	0.18
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	5	0.18
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	7	0.18
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA2	7	0.18
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA3	7	0.18
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	19	0.18
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	19	0.18
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG3	19	0.18
(1,2171)	1:244:A:VAL:HG23	1:245:A:GLU:HG2	19	0.18
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	9	0.18
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	20	0.18
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	20	0.18
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD3	20	0.18
(1,2144)	1:241:A:LEU:H	1:242:A:LYS:HD2	20	0.18
(1,2142)	1:241:A:LEU:H	1:242:A:LYS:H	19	0.18
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	16	0.18
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	10	0.18
(1,2125)	1:236:A:LEU:HD13	1:237:A:GLU:HA	6	0.18
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	10	0.18
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	10	0.18
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD13	11	0.18
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD23	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	7	0.18
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	9	0.18
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB2	17	0.18
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB3	17	0.18
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	17	0.18
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	13	0.18
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	13	0.18
(1,2063)	1:229:A:GLU:H	1:232:A:GLY:H	17	0.18
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	15	0.18
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	10	0.18
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	2	0.18
(1,1989)	1:226:A:ILE:H	1:227:A:LYS:HG2	17	0.18
(1,1989)	1:226:A:ILE:H	1:227:A:LYS:HG3	17	0.18
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG2	6	0.18
(1,1947)	1:224:A:GLU:H	1:224:A:GLU:HG3	6	0.18
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	6	0.18
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	12	0.18
(1,1915)	1:221:A:GLU:H	1:222:A:ILE:H	12	0.18
(1,1915)	1:221:A:GLU:H	1:222:A:ILE:H	19	0.18
(1,1909)	1:220:A:ARG:HA	1:224:A:GLU:H	8	0.18
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	3	0.18
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	11	0.18
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	15	0.18
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	15	0.18
(1,1878)	1:211:A:VAL:HG13	1:212:A:CYS:H	4	0.18
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	2	0.18
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	2	0.18
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	8	0.18
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	13	0.18
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	7	0.18
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	12	0.18
(1,1842)	1:204:A:TYR:HA	1:209:A:GLU:H	2	0.18
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	18	0.18
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	13	0.18
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	13	0.18
(1,1761)	1:199:A:ILE:HD13	1:213:A:LEU:H	7	0.18
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	15	0.18
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	15	0.18
(1,1693)	1:193:A:LYS:HE2	1:198:A:VAL:HG23	9	0.18
(1,1693)	1:193:A:LYS:HE3	1:198:A:VAL:HG23	9	0.18
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE2	15	0.18
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE3	15	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE2	15	0.18
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE3	15	0.18
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE2	18	0.18
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE3	18	0.18
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE2	18	0.18
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE3	18	0.18
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	16	0.18
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	16	0.18
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	2	0.18
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	10	0.18
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	13	0.18
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	13	0.18
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	13	0.18
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	14	0.18
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	4	0.18
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	4	0.18
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	10	0.18
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG2	3	0.18
(1,1629)	1:189:A:LYS:HA	1:193:A:LYS:HG3	3	0.18
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	16	0.18
(1,1596)	1:188:A:LEU:H	1:190:A:GLU:H	4	0.18
(1,1590)	1:187:A:LYS:HB2	1:188:A:LEU:H	17	0.18
(1,1590)	1:187:A:LYS:HB3	1:188:A:LEU:H	17	0.18
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	9	0.18
(1,1563)	1:185:A:GLY:HA2	1:188:A:LEU:HD13	14	0.18
(1,1563)	1:185:A:GLY:HA3	1:188:A:LEU:HD13	14	0.18
(1,1563)	1:185:A:GLY:HA2	1:188:A:LEU:HD13	19	0.18
(1,1563)	1:185:A:GLY:HA3	1:188:A:LEU:HD13	19	0.18
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB2	5	0.18
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB3	5	0.18
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB2	7	0.18
(1,1533)	1:182:A:VAL:H	1:206:A:GLN:HB3	7	0.18
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	10	0.18
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	10	0.18
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	10	0.18
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	10	0.18
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	20	0.18
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	20	0.18
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	20	0.18
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	20	0.18
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB2	1	0.18
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB3	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB2	1	0.18
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB3	1	0.18
(1,1519)	1:181:A:PRO:HA	1:182:A:VAL:HG23	5	0.18
(1,1511)	1:180:A:LEU:HB2	1:185:A:GLY:H	16	0.18
(1,1511)	1:180:A:LEU:HB3	1:185:A:GLY:H	16	0.18
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA2	18	0.18
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA3	18	0.18
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	8	0.18
(1,1492)	1:178:A:PHE:HA	1:235:A:SER:H	8	0.18
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	15	0.18
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	11	0.18
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	6	0.18
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	6	0.18
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	6	0.18
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	6	0.18
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	10	0.18
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	10	0.18
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	18	0.18
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	18	0.18
(1,1412)	1:170:A:GLU:HG2	1:171:A:ARG:H	14	0.18
(1,1412)	1:170:A:GLU:HG3	1:171:A:ARG:H	14	0.18
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	7	0.18
(1,1400)	1:169:A:ILE:H	1:170:A:GLU:HA	10	0.18
(1,1400)	1:169:A:ILE:H	1:170:A:GLU:HA	14	0.18
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	19	0.18
(1,1384)	1:166:A:LYS:H	1:166:A:LYS:HB2	13	0.18
(1,1384)	1:166:A:LYS:H	1:166:A:LYS:HB3	13	0.18
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	4	0.18
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	4	0.18
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	12	0.18
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	12	0.18
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	15	0.18
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	15	0.18
(1,1366)	1:164:A:LYS:H	1:166:A:LYS:H	1	0.18
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	4	0.18
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	4	0.18
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	6	0.18
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	17	0.18
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	1	0.18
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	18	0.18
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	18	0.18
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	20	0.18
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	19	0.18
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	9	0.18
(1,1249)	1:153:A:LYS:H	1:154:A:GLN:H	6	0.18
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	4	0.18
(1,1213)	1:142:A:ILE:HA	1:144:A:TYR:H	18	0.18
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	18	0.18
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	7	0.18
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	7	0.18
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	14	0.18
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	14	0.18
(1,1169)	1:137:A:ARG:HB2	1:138:A:ALA:H	1	0.18
(1,1169)	1:137:A:ARG:HB3	1:138:A:ALA:H	1	0.18
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	12	0.18
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	12	0.18
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	14	0.18
(1,1119)	1:133:A:ILE:HA	1:137:A:ARG:H	3	0.18
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	19	0.18
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	8	0.18
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	8	0.18
(1,1090)	1:132:A:VAL:H	1:133:A:ILE:H	15	0.18
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	13	0.18
(1,1078)	1:130:A:TYR:HA	1:131:A:THR:H	9	0.18
(1,1065)	1:126:A:THR:HG23	1:127:A:LYS:H	6	0.18
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	6	0.18
(1,1019)	1:118:A:ALA:H	1:135:A:ILE:HB	4	0.18
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	2	0.18
(1,983)	1:114:A:ALA:HA	1:116:A:ILE:H	4	0.18
(1,983)	1:114:A:ALA:HA	1:116:A:ILE:H	14	0.18
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	19	0.18
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	9	0.18
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	9	0.18
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB2	19	0.18
(1,952)	1:108:A:GLN:HA	1:111:A:ARG:HB3	19	0.18
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	9	0.18
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	19	0.18
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG2	18	0.18
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG3	18	0.18
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB2	11	0.18
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB3	11	0.18
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB2	11	0.18
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB3	11	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	18	0.18
(1,877)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	1	0.18
(1,877)	1:89:A:ILE:HG13	1:89:A:ILE:HG23	1	0.18
(1,877)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	20	0.18
(1,877)	1:89:A:ILE:HG13	1:89:A:ILE:HG23	20	0.18
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	13	0.18
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	13	0.18
(1,828)	1:87:A:LYS:HA	1:89:A:ILE:H	18	0.18
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	3	0.18
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	3	0.18
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	7	0.18
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	15	0.18
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	7	0.18
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	2	0.18
(1,708)	1:75:A:SER:H	1:77:A:PHE:H	13	0.18
(1,698)	1:74:A:ILE:HG23	1:75:A:SER:HA	4	0.18
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	4	0.18
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	4	0.18
(1,684)	1:74:A:ILE:HA	1:74:A:ILE:HD13	14	0.18
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	6	0.18
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	5	0.18
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	10	0.18
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	14	0.18
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	20	0.18
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	14	0.18
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	14	0.18
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE2	4	0.18
(1,603)	1:69:A:LYS:HG2	1:70:A:LYS:HE3	4	0.18
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE2	4	0.18
(1,603)	1:69:A:LYS:HG3	1:70:A:LYS:HE3	4	0.18
(1,601)	1:69:A:LYS:HG2	1:70:A:LYS:H	6	0.18
(1,601)	1:69:A:LYS:HG3	1:70:A:LYS:H	6	0.18
(1,577)	1:67:A:VAL:H	1:69:A:LYS:H	17	0.18
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE2	15	0.18
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE3	15	0.18
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE2	15	0.18
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE3	15	0.18
(1,556)	1:64:A:LYS:HB2	1:66:A:GLN:H	6	0.18
(1,556)	1:64:A:LYS:HB3	1:66:A:GLN:H	6	0.18
(1,550)	1:64:A:LYS:H	1:66:A:GLN:H	19	0.18
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	9	0.18
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB2	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB3	1	0.18
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB2	17	0.18
(1,523)	1:61:A:ASN:H	1:61:A:ASN:HB3	17	0.18
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	7	0.18
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	6	0.18
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	6	0.18
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	1	0.18
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	1	0.18
(1,456)	1:54:A:GLN:HB3	1:55:A:THR:H	9	0.18
(1,456)	1:54:A:GLN:HB2	1:55:A:THR:H	9	0.18
(1,456)	1:54:A:GLN:HB3	1:55:A:THR:H	9	0.18
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	20	0.18
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	20	0.18
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	8	0.18
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	8	0.18
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	1	0.18
(1,424)	1:51:A:GLU:H	1:52:A:VAL:H	18	0.18
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	19	0.18
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	19	0.18
(1,399)	1:47:A:LYS:HG2	1:48:A:ASP:H	6	0.18
(1,399)	1:47:A:LYS:HG3	1:48:A:ASP:H	6	0.18
(1,399)	1:47:A:LYS:HG2	1:48:A:ASP:H	17	0.18
(1,399)	1:47:A:LYS:HG3	1:48:A:ASP:H	17	0.18
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB2	15	0.18
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB3	15	0.18
(1,392)	1:46:A:GLU:HB2	1:47:A:LYS:H	13	0.18
(1,392)	1:46:A:GLU:HB3	1:47:A:LYS:H	13	0.18
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	2	0.18
(1,382)	1:45:A:VAL:H	1:45:A:VAL:HG23	2	0.18
(1,371)	1:43:A:SER:HA	1:44:A:GLY:H	2	0.18
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB2	13	0.18
(1,360)	1:41:A:TRP:H	1:46:A:GLU:HB3	13	0.18
(1,350)	1:39:A:VAL:H	1:39:A:VAL:HG23	16	0.18
(1,335)	1:38:A:VAL:HA	1:52:A:VAL:HG23	18	0.18
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	5	0.18
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	5	0.18
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG2	14	0.18
(1,259)	1:28:A:ARG:H	1:28:A:ARG:HG3	14	0.18
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	10	0.18
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	10	0.18
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	16	0.18
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	17	0.18
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	1	0.18
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	1	0.18
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	2	0.18
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	5	0.18
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	14	0.18
(1,186)	1:22:A:MET:H	1:30:A:GLU:H	3	0.18
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	2	0.18
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	2	0.18
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	15	0.18
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	15	0.18
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	10	0.18
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	17	0.18
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	4	0.18
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	4	0.18
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	19	0.18
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	19	0.18
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	3	0.18
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	3	0.18
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	10	0.18
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	18	0.18
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	19	0.18
(1,97)	1:17:A:VAL:HB	1:32:A:ALA:HB3	5	0.18
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	13	0.18
(1,87)	1:15:A:THR:H	1:17:A:VAL:H	5	0.18
(1,79)	1:14:A:LEU:HA	1:17:A:VAL:HB	7	0.18
(1,79)	1:14:A:LEU:HA	1:17:A:VAL:HB	18	0.18
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	14	0.18
(1,67)	1:13:A:ARG:HB2	1:14:A:LEU:H	18	0.18
(1,67)	1:13:A:ARG:HB3	1:14:A:LEU:H	18	0.18
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	19	0.18
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	19	0.18
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB2	18	0.18
(1,36)	1:12:A:ILE:H	1:13:A:ARG:HB3	18	0.18
(1,26)	1:11:A:GLN:H	1:13:A:ARG:H	17	0.18
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	10	0.18
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	10	0.18
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	9	0.18
(2,66)	1:219:A:PHE:O	1:223:A:ASP:H	3	0.17
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	9	0.17
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	18	0.17
(2,34)	1:110:A:PHE:O	1:114:A:ALA:H	14	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,27)	1:82:A:GLN:O	1:86:A:CYS:H	1	0.17
(2,22)	1:72:A:ASP:O	1:76:A:ALA:H	1	0.17
(2,18)	1:61:A:ASN:O	1:66:A:GLN:H	10	0.17
(2,18)	1:61:A:ASN:O	1:66:A:GLN:H	18	0.17
(2,10)	1:40:A:GLY:O	1:44:A:GLY:H	1	0.17
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	11	0.17
(1,2211)	1:250:A:LYS:H	1:251:A:PHE:H	9	0.17
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	3	0.17
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	10	0.17
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	16	0.17
(1,2148)	1:241:A:LEU:HD23	1:243:A:ASP:H	3	0.17
(1,2139)	1:238:A:VAL:HG23	1:240:A:ASN:H	10	0.17
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	7	0.17
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	7	0.17
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	9	0.17
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	9	0.17
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD13	8	0.17
(1,2119)	1:236:A:LEU:HA	1:236:A:LEU:HD23	8	0.17
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	11	0.17
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	11	0.17
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB2	16	0.17
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB3	16	0.17
(1,2098)	1:232:A:GLY:H	1:233:A:LYS:H	10	0.17
(1,2093)	1:231:A:LYS:HG3	1:232:A:GLY:H	2	0.17
(1,2093)	1:231:A:LYS:HG2	1:232:A:GLY:H	2	0.17
(1,2093)	1:231:A:LYS:HG3	1:232:A:GLY:H	2	0.17
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	5	0.17
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	5	0.17
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	5	0.17
(1,2040)	1:227:A:LYS:HD2	1:228:A:LYS:H	6	0.17
(1,2040)	1:227:A:LYS:HD3	1:228:A:LYS:H	6	0.17
(1,2015)	1:226:A:ILE:HG23	1:231:A:LYS:H	9	0.17
(1,1969)	1:225:A:LEU:HA	1:229:A:GLU:H	4	0.17
(1,1965)	1:225:A:LEU:H	1:228:A:LYS:H	7	0.17
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG12	6	0.17
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG13	6	0.17
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	14	0.17
(1,1919)	1:221:A:GLU:HA	1:224:A:GLU:H	6	0.17
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	5	0.17
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	2	0.17
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	14	0.17
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	16	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	18	0.17
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	19	0.17
(1,1854)	1:207:A:GLN:HA	1:208:A:LEU:H	3	0.17
(1,1854)	1:207:A:GLN:HA	1:208:A:LEU:H	4	0.17
(1,1851)	1:206:A:GLN:HB2	1:207:A:GLN:H	8	0.17
(1,1851)	1:206:A:GLN:HB3	1:207:A:GLN:H	8	0.17
(1,1849)	1:205:A:GLY:HA2	1:207:A:GLN:H	19	0.17
(1,1849)	1:205:A:GLY:HA3	1:207:A:GLN:H	19	0.17
(1,1839)	1:204:A:TYR:HA	1:208:A:LEU:H	9	0.17
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	13	0.17
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	13	0.17
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB2	20	0.17
(1,1836)	1:204:A:TYR:H	1:248:A:ASP:HB3	20	0.17
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB2	9	0.17
(1,1821)	1:203:A:ASP:HA	1:209:A:GLU:HB3	9	0.17
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	9	0.17
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	5	0.17
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB2	18	0.17
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB3	18	0.17
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	6	0.17
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	19	0.17
(1,1786)	1:201:A:SER:HB2	1:202:A:GLU:H	1	0.17
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	14	0.17
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	14	0.17
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	14	0.17
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	5	0.17
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	14	0.17
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	18	0.17
(1,1733)	1:199:A:ILE:H	1:199:A:ILE:HB	5	0.17
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	14	0.17
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	8	0.17
(1,1707)	1:196:A:ILE:H	1:197:A:LYS:H	18	0.17
(1,1701)	1:195:A:LEU:HA	1:195:A:LEU:HD13	12	0.17
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	1	0.17
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	14	0.17
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	8	0.17
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	8	0.17
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG2	18	0.17
(1,1660)	1:191:A:LYS:H	1:229:A:GLU:HG3	18	0.17
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	15	0.17
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	16	0.17
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	1	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	13	0.17
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	13	0.17
(1,1578)	1:186:A:LYS:HA	1:189:A:LYS:HG2	8	0.17
(1,1578)	1:186:A:LYS:HA	1:189:A:LYS:HG3	8	0.17
(1,1576)	1:186:A:LYS:HA	1:189:A:LYS:H	18	0.17
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	10	0.17
(1,1551)	1:184:A:GLU:HA	1:186:A:LYS:H	19	0.17
(1,1536)	1:182:A:VAL:H	1:208:A:LEU:H	17	0.17
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG2	13	0.17
(1,1534)	1:182:A:VAL:H	1:206:A:GLN:HG3	13	0.17
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	6	0.17
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	8	0.17
(1,1504)	1:179:A:ILE:HA	1:209:A:GLU:H	7	0.17
(1,1502)	1:179:A:ILE:HA	1:179:A:ILE:HD13	3	0.17
(1,1498)	1:179:A:ILE:H	1:235:A:SER:HA	5	0.17
(1,1493)	1:178:A:PHE:HA	1:236:A:LEU:HA	1	0.17
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	8	0.17
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	8	0.17
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	4	0.17
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	6	0.17
(1,1430)	1:174:A:MET:HB2	1:175:A:ARG:HA	18	0.17
(1,1430)	1:174:A:MET:HB3	1:175:A:ARG:HA	18	0.17
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	12	0.17
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	12	0.17
(1,1420)	1:172:A:ALA:HA	1:173:A:HIS:H	5	0.17
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	9	0.17
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	4	0.17
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	8	0.17
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	15	0.17
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	6	0.17
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	6	0.17
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	17	0.17
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	17	0.17
(1,1352)	1:162:A:GLN:HG2	1:163:A:LEU:HA	6	0.17
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	20	0.17
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	20	0.17
(1,1327)	1:161:A:LYS:H	1:162:A:GLN:H	4	0.17
(1,1327)	1:161:A:LYS:H	1:162:A:GLN:H	15	0.17
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE2	3	0.17
(1,1324)	1:160:A:ILE:HG23	1:161:A:LYS:HE3	3	0.17
(1,1317)	1:160:A:ILE:H	1:162:A:GLN:H	11	0.17
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	14	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	14	0.17
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	19	0.17
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	19	0.17
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	7	0.17
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	12	0.17
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	12	0.17
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	6	0.17
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE2	6	0.17
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE3	6	0.17
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE2	6	0.17
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE3	6	0.17
(1,1257)	1:153:A:LYS:HB2	1:153:A:LYS:HD2	2	0.17
(1,1257)	1:153:A:LYS:HB2	1:153:A:LYS:HD3	2	0.17
(1,1257)	1:153:A:LYS:HB3	1:153:A:LYS:HD2	2	0.17
(1,1257)	1:153:A:LYS:HB3	1:153:A:LYS:HD3	2	0.17
(1,1218)	1:143:A:HIS:H	1:144:A:TYR:H	10	0.17
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	1	0.17
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	18	0.17
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	5	0.17
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	5	0.17
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	16	0.17
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	19	0.17
(1,1183)	1:138:A:ALA:H	1:140:A:LYS:H	3	0.17
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	19	0.17
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	19	0.17
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	17	0.17
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	17	0.17
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	17	0.17
(1,1148)	1:136:A:GLU:HA	1:139:A:MET:H	12	0.17
(1,1134)	1:135:A:ILE:H	1:136:A:GLU:H	8	0.17
(1,1134)	1:135:A:ILE:H	1:136:A:GLU:H	12	0.17
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	11	0.17
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	1	0.17
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	6	0.17
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	18	0.17
(1,1090)	1:132:A:VAL:H	1:133:A:ILE:H	1	0.17
(1,1084)	1:131:A:THR:HG23	1:132:A:VAL:H	10	0.17
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	2	0.17
(1,1080)	1:131:A:THR:H	1:133:A:ILE:H	12	0.17
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	9	0.17
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	9	0.17
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	9	0.17
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	18	0.17
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	18	0.17
(1,1062)	1:126:A:THR:H	1:127:A:LYS:H	1	0.17
(1,1057)	1:124:A:PRO:HB2	1:125:A:GLU:HA	17	0.17
(1,1057)	1:124:A:PRO:HB3	1:125:A:GLU:HA	17	0.17
(1,1043)	1:121:A:CYS:H	1:122:A:VAL:HG23	16	0.17
(1,1030)	1:119:A:ASP:HA	1:217:A:GLY:H	12	0.17
(1,1004)	1:117:A:VAL:H	1:118:A:ALA:H	2	0.17
(1,982)	1:114:A:ALA:H	1:115:A:THR:H	3	0.17
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG2	10	0.17
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG3	10	0.17
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG2	10	0.17
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG3	10	0.17
(1,941)	1:95:A:VAL:HG23	1:97:A:VAL:HA	4	0.17
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	16	0.17
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	9	0.17
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	9	0.17
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD3	9	0.17
(1,909)	1:92:A:LYS:H	1:92:A:LYS:HD2	9	0.17
(1,901)	1:91:A:THR:H	1:93:A:GLY:H	20	0.17
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD2	2	0.17
(1,900)	1:91:A:THR:H	1:92:A:LYS:HD3	2	0.17
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	11	0.17
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	13	0.17
(1,882)	1:89:A:ILE:HG23	1:94:A:GLU:H	3	0.17
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	8	0.17
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	8	0.17
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	1	0.17
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	5	0.17
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	7	0.17
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	6	0.17
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	6	0.17
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	11	0.17
(1,828)	1:87:A:LYS:HA	1:89:A:ILE:H	20	0.17
(1,817)	1:86:A:CYS:HA	1:90:A:LEU:HB2	10	0.17
(1,817)	1:86:A:CYS:HA	1:90:A:LEU:HB3	10	0.17
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB2	18	0.17
(1,803)	1:85:A:ILE:HA	1:88:A:GLN:HB3	18	0.17
(1,797)	1:85:A:ILE:H	1:86:A:CYS:H	3	0.17
(1,782)	1:84:A:GLU:H	1:85:A:ILE:HA	7	0.17
(1,764)	1:82:A:GLN:H	1:85:A:ILE:H	4	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,763)	1:82:A:GLN:H	1:84:A:GLU:H	1	0.17
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	16	0.17
(1,733)	1:78:A:GLY:H	1:79:A:THR:H	8	0.17
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	20	0.17
(1,718)	1:76:A:ALA:H	1:76:A:ALA:HB3	12	0.17
(1,716)	1:75:A:SER:HB2	1:77:A:PHE:H	12	0.17
(1,716)	1:75:A:SER:HB3	1:77:A:PHE:H	12	0.17
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	3	0.17
(1,700)	1:74:A:ILE:HG23	1:78:A:GLY:H	10	0.17
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	18	0.17
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	11	0.17
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	4	0.17
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	7	0.17
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	14	0.17
(1,657)	1:73:A:LEU:H	1:76:A:ALA:HB3	12	0.17
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	1	0.17
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	16	0.17
(1,640)	1:72:A:ASP:H	1:73:A:LEU:HA	11	0.17
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	8	0.17
(1,632)	1:71:A:GLU:HA	1:74:A:ILE:H	17	0.17
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	9	0.17
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	6	0.17
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	6	0.17
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	17	0.17
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	17	0.17
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	3	0.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	19	0.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	19	0.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD3	19	0.17
(1,607)	1:70:A:LYS:H	1:70:A:LYS:HD2	19	0.17
(1,601)	1:69:A:LYS:HG2	1:70:A:LYS:H	7	0.17
(1,601)	1:69:A:LYS:HG3	1:70:A:LYS:H	7	0.17
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	7	0.17
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	4	0.17
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	11	0.17
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG2	8	0.17
(1,565)	1:66:A:GLN:H	1:66:A:GLN:HG3	8	0.17
(1,550)	1:64:A:LYS:H	1:66:A:GLN:H	17	0.17
(1,544)	1:62:A:VAL:HG23	1:63:A:SER:H	6	0.17
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB2	11	0.17
(1,527)	1:61:A:ASN:H	1:66:A:GLN:HB3	11	0.17
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,514)	1:60:A:VAL:HB	1:66:A:GLN:H	4	0.17
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	14	0.17
(1,508)	1:60:A:VAL:H	1:60:A:VAL:HG23	4	0.17
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	2	0.17
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	2	0.17
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	3	0.17
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	3	0.17
(1,452)	1:53:A:LEU:HD13	1:56:A:HIS:HA	15	0.17
(1,452)	1:53:A:LEU:HD23	1:56:A:HIS:HA	15	0.17
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	6	0.17
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	6	0.17
(1,445)	1:53:A:LEU:HA	1:55:A:THR:H	6	0.17
(1,415)	1:49:A:LEU:HA	1:52:A:VAL:HG23	14	0.17
(1,397)	1:47:A:LYS:H	1:48:A:ASP:HA	9	0.17
(1,397)	1:47:A:LYS:H	1:48:A:ASP:HA	12	0.17
(1,394)	1:46:A:GLU:HG2	1:47:A:LYS:H	6	0.17
(1,394)	1:46:A:GLU:HG3	1:47:A:LYS:H	6	0.17
(1,392)	1:46:A:GLU:HB2	1:47:A:LYS:H	2	0.17
(1,392)	1:46:A:GLU:HB3	1:47:A:LYS:H	2	0.17
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG3	8	0.17
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG2	8	0.17
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG3	8	0.17
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG2	8	0.17
(1,383)	1:45:A:VAL:H	1:46:A:GLU:H	16	0.17
(1,340)	1:38:A:VAL:HG13	1:39:A:VAL:HB	6	0.17
(1,320)	1:33:A:CYS:H	1:34:A:TYR:HA	5	0.17
(1,314)	1:32:A:ALA:HB3	1:33:A:CYS:H	5	0.17
(1,281)	1:30:A:GLU:H	1:30:A:GLU:HB2	3	0.17
(1,281)	1:30:A:GLU:H	1:30:A:GLU:HB3	3	0.17
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	19	0.17
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	19	0.17
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	16	0.17
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	3	0.17
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	7	0.17
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	7	0.17
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	7	0.17
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	7	0.17
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	9	0.17
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	9	0.17
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	9	0.17
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	9	0.17
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	9	0.17
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	13	0.17
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	13	0.17
(1,206)	1:22:A:MET:HB2	1:93:A:GLY:H	3	0.17
(1,206)	1:22:A:MET:HB3	1:93:A:GLY:H	3	0.17
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	3	0.17
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	1	0.17
(1,184)	1:22:A:MET:H	1:29:A:PHE:HA	20	0.17
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	6	0.17
(1,142)	1:20:A:VAL:HB	1:89:A:ILE:HG23	2	0.17
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	1	0.17
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	1	0.17
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG2	19	0.17
(1,121)	1:19:A:VAL:H	1:96:A:GLN:HG3	19	0.17
(1,116)	1:19:A:VAL:H	1:19:A:VAL:HG23	1	0.17
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	5	0.17
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	6	0.17
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	20	0.17
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	15	0.17
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	10	0.17
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	10	0.17
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	18	0.17
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	18	0.17
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	20	0.17
(1,64)	1:13:A:ARG:HA	1:15:A:THR:H	4	0.17
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	17	0.17
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	17	0.17
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG2	9	0.17
(1,37)	1:12:A:ILE:H	1:13:A:ARG:HG3	9	0.17
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	14	0.17
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	6	0.17
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	12	0.17
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	12	0.17
(2,66)	1:219:A:PHE:O	1:223:A:ASP:H	11	0.16
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	7	0.16
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	11	0.16
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	15	0.16
(2,48)	1:157:A:LEU:O	1:161:A:LYS:H	12	0.16
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	20	0.16
(2,44)	1:152:A:THR:O	1:156:A:ALA:H	11	0.16
(2,37)	1:113:A:ILE:O	1:117:A:VAL:H	11	0.16
(2,34)	1:110:A:PHE:O	1:114:A:ALA:H	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,25)	1:74:A:ILE:O	1:78:A:GLY:H	14	0.16
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	10	0.16
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	9	0.16
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	17	0.16
(1,2217)	1:250:A:LYS:HB2	1:252:A:GLU:H	4	0.16
(1,2217)	1:250:A:LYS:HB3	1:252:A:GLU:H	4	0.16
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB2	8	0.16
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB3	8	0.16
(1,2211)	1:250:A:LYS:H	1:251:A:PHE:H	1	0.16
(1,2211)	1:250:A:LYS:H	1:251:A:PHE:H	7	0.16
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	4	0.16
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	10	0.16
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB2	7	0.16
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB3	7	0.16
(1,2165)	1:244:A:VAL:HA	1:245:A:GLU:H	20	0.16
(1,2150)	1:242:A:LYS:H	1:243:A:ASP:H	4	0.16
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG2	15	0.16
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG3	15	0.16
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	2	0.16
(1,2117)	1:236:A:LEU:H	1:236:A:LEU:HD13	4	0.16
(1,2117)	1:236:A:LEU:H	1:236:A:LEU:HD23	4	0.16
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	16	0.16
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	11	0.16
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	11	0.16
(1,2094)	1:231:A:LYS:HG2	1:233:A:LYS:H	5	0.16
(1,2094)	1:231:A:LYS:HG3	1:233:A:LYS:H	5	0.16
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	8	0.16
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	19	0.16
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	6	0.16
(1,2074)	1:230:A:THR:HA	1:231:A:LYS:HB2	13	0.16
(1,2074)	1:230:A:THR:HA	1:231:A:LYS:HB3	13	0.16
(1,2070)	1:230:A:THR:H	1:231:A:LYS:H	6	0.16
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE2	5	0.16
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE3	5	0.16
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE2	5	0.16
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE3	5	0.16
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	10	0.16
(1,2016)	1:226:A:ILE:HG23	1:231:A:LYS:HA	9	0.16
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	11	0.16
(1,2006)	1:226:A:ILE:HG21	1:227:A:LYS:HA	9	0.16
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	10	0.16
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	3	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	3	0.16
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG2	9	0.16
(1,1997)	1:226:A:ILE:HA	1:229:A:GLU:HG3	9	0.16
(1,1918)	1:221:A:GLU:HA	1:221:A:GLU:HG2	3	0.16
(1,1918)	1:221:A:GLU:HA	1:221:A:GLU:HG3	3	0.16
(1,1917)	1:221:A:GLU:H	1:224:A:GLU:H	17	0.16
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB2	12	0.16
(1,1911)	1:220:A:ARG:HB2	1:221:A:GLU:HB3	12	0.16
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB2	12	0.16
(1,1911)	1:220:A:ARG:HB3	1:221:A:GLU:HB3	12	0.16
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	13	0.16
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	13	0.16
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	3	0.16
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	17	0.16
(1,1890)	1:214:A:ILE:HG23	1:219:A:PHE:H	13	0.16
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB2	20	0.16
(1,1881)	1:211:A:VAL:HG13	1:239:A:LEU:HB3	20	0.16
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	3	0.16
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	3	0.16
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	19	0.16
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	19	0.16
(1,1837)	1:204:A:TYR:HA	1:205:A:GLY:H	20	0.16
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	9	0.16
(1,1806)	1:202:A:GLU:HG2	1:248:A:ASP:H	1	0.16
(1,1806)	1:202:A:GLU:HG3	1:248:A:ASP:H	1	0.16
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	20	0.16
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	11	0.16
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	11	0.16
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	16	0.16
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB2	16	0.16
(1,1754)	1:199:A:ILE:HG23	1:201:A:SER:HB3	16	0.16
(1,1752)	1:199:A:ILE:HG23	1:200:A:GLU:HA	11	0.16
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	2	0.16
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	6	0.16
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	7	0.16
(1,1733)	1:199:A:ILE:H	1:199:A:ILE:HB	14	0.16
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	7	0.16
(1,1724)	1:198:A:VAL:HA	1:199:A:ILE:HD13	6	0.16
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	19	0.16
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	19	0.16
(1,1709)	1:196:A:ILE:H	1:198:A:VAL:HG23	19	0.16
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	2	0.16
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	2	0.16
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	7	0.16
(1,1664)	1:191:A:LYS:HB2	1:225:A:LEU:HD13	7	0.16
(1,1664)	1:191:A:LYS:HB3	1:225:A:LEU:HD13	7	0.16
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	4	0.16
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	4	0.16
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE3	4	0.16
(1,1631)	1:189:A:LYS:HA	1:193:A:LYS:HE2	4	0.16
(1,1626)	1:189:A:LYS:HA	1:192:A:LEU:HB2	4	0.16
(1,1626)	1:189:A:LYS:HA	1:192:A:LEU:HB3	4	0.16
(1,1626)	1:189:A:LYS:HA	1:192:A:LEU:HB2	6	0.16
(1,1626)	1:189:A:LYS:HA	1:192:A:LEU:HB3	6	0.16
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	12	0.16
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	18	0.16
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	4	0.16
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	6	0.16
(1,1589)	1:187:A:LYS:HA	1:189:A:LYS:H	17	0.16
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	6	0.16
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	7	0.16
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	10	0.16
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	13	0.16
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	17	0.16
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	20	0.16
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	13	0.16
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	19	0.16
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	12	0.16
(1,1515)	1:180:A:LEU:HD23	1:208:A:LEU:H	1	0.16
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	13	0.16
(1,1473)	1:177:A:ARG:H	1:239:A:LEU:H	7	0.16
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	1	0.16
(1,1460)	1:176:A:LEU:HG	1:213:A:LEU:HG	18	0.16
(1,1456)	1:176:A:LEU:HB2	1:213:A:LEU:HD23	9	0.16
(1,1456)	1:176:A:LEU:HB3	1:213:A:LEU:HD23	9	0.16
(1,1449)	1:176:A:LEU:H	1:212:A:CYS:H	10	0.16
(1,1448)	1:176:A:LEU:H	1:211:A:VAL:HG13	8	0.16
(1,1438)	1:175:A:ARG:HA	1:213:A:LEU:HD23	16	0.16
(1,1435)	1:175:A:ARG:H	1:239:A:LEU:H	13	0.16
(1,1414)	1:171:A:ARG:H	1:172:A:ALA:HA	15	0.16
(1,1407)	1:169:A:ILE:HD13	1:170:A:GLU:H	3	0.16
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	2	0.16
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	18	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1400)	1:169:A:ILE:H	1:170:A:GLU:HA	16	0.16
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG2	7	0.16
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG3	7	0.16
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG2	12	0.16
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG3	12	0.16
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB2	19	0.16
(1,1379)	1:165:A:GLU:H	1:166:A:LYS:HB3	19	0.16
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	10	0.16
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	10	0.16
(1,1345)	1:162:A:GLN:H	1:164:A:LYS:H	4	0.16
(1,1327)	1:161:A:LYS:H	1:162:A:GLN:H	6	0.16
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	9	0.16
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	10	0.16
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	11	0.16
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	14	0.16
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	9	0.16
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	2	0.16
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	2	0.16
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	6	0.16
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	6	0.16
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	4	0.16
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	6	0.16
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	8	0.16
(1,1277)	1:155:A:GLN:HB2	1:159:A:VAL:H	6	0.16
(1,1277)	1:155:A:GLN:HB3	1:159:A:VAL:H	6	0.16
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	12	0.16
(1,1246)	1:152:A:THR:HG23	1:153:A:LYS:H	5	0.16
(1,1245)	1:152:A:THR:HB	1:156:A:ALA:HB3	9	0.16
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	4	0.16
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	8	0.16
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	15	0.16
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	19	0.16
(1,1208)	1:141:A:ASP:HB2	1:166:A:LYS:HE2	11	0.16
(1,1208)	1:141:A:ASP:HB2	1:166:A:LYS:HE3	11	0.16
(1,1208)	1:141:A:ASP:HB3	1:166:A:LYS:HE2	11	0.16
(1,1208)	1:141:A:ASP:HB3	1:166:A:LYS:HE3	11	0.16
(1,1206)	1:141:A:ASP:HA	1:143:A:HIS:H	7	0.16
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	3	0.16
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	3	0.16
(1,1195)	1:140:A:LYS:H	1:141:A:ASP:H	19	0.16
(1,1189)	1:138:A:ALA:HB3	1:141:A:ASP:H	19	0.16
(1,1186)	1:138:A:ALA:HA	1:141:A:ASP:H	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1169)	1:137:A:ARG:HB2	1:138:A:ALA:H	2	0.16
(1,1169)	1:137:A:ARG:HB3	1:138:A:ALA:H	2	0.16
(1,1164)	1:137:A:ARG:HA	1:137:A:ARG:HG2	17	0.16
(1,1164)	1:137:A:ARG:HA	1:137:A:ARG:HG3	17	0.16
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	13	0.16
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB2	3	0.16
(1,1131)	1:133:A:ILE:HD13	1:136:A:GLU:HB3	3	0.16
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	6	0.16
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	18	0.16
(1,1100)	1:132:A:VAL:HG13	1:134:A:LEU:H	14	0.16
(1,1077)	1:130:A:TYR:H	1:131:A:THR:HA	17	0.16
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	7	0.16
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	7	0.16
(1,1059)	1:125:A:GLU:H	1:126:A:THR:H	15	0.16
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	9	0.16
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	9	0.16
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	9	0.16
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	9	0.16
(1,1055)	1:124:A:PRO:HA	1:125:A:GLU:H	11	0.16
(1,1005)	1:117:A:VAL:H	1:119:A:ASP:H	4	0.16
(1,1001)	1:116:A:ILE:HG23	1:117:A:VAL:H	12	0.16
(1,998)	1:116:A:ILE:H	1:119:A:ASP:H	12	0.16
(1,968)	1:111:A:ARG:H	1:114:A:ALA:HB3	8	0.16
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	12	0.16
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	19	0.16
(1,940)	1:95:A:VAL:HG13	1:97:A:VAL:H	3	0.16
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	2	0.16
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG2	19	0.16
(1,926)	1:94:A:GLU:HA	1:94:A:GLU:HG3	19	0.16
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	5	0.16
(1,923)	1:94:A:GLU:H	1:94:A:GLU:HB2	11	0.16
(1,923)	1:94:A:GLU:H	1:94:A:GLU:HB3	11	0.16
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	4	0.16
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	4	0.16
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG2	7	0.16
(1,838)	1:87:A:LYS:HG2	1:88:A:GLN:HG3	7	0.16
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG2	7	0.16
(1,838)	1:87:A:LYS:HG3	1:88:A:GLN:HG3	7	0.16
(1,831)	1:87:A:LYS:HA	1:90:A:LEU:HG	15	0.16
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	9	0.16
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	12	0.16
(1,782)	1:84:A:GLU:H	1:85:A:ILE:HA	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	3	0.16
(1,766)	1:82:A:GLN:HA	1:85:A:ILE:HB	19	0.16
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	2	0.16
(1,753)	1:81:A:ASP:H	1:84:A:GLU:H	13	0.16
(1,751)	1:81:A:ASP:H	1:81:A:ASP:HB2	11	0.16
(1,751)	1:81:A:ASP:H	1:81:A:ASP:HB3	11	0.16
(1,740)	1:79:A:THR:HB	1:81:A:ASP:H	8	0.16
(1,716)	1:75:A:SER:HB2	1:77:A:PHE:H	13	0.16
(1,716)	1:75:A:SER:HB3	1:77:A:PHE:H	13	0.16
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	12	0.16
(1,694)	1:74:A:ILE:HG12	1:81:A:ASP:H	16	0.16
(1,694)	1:74:A:ILE:HG13	1:81:A:ASP:H	16	0.16
(1,680)	1:74:A:ILE:H	1:76:A:ALA:H	8	0.16
(1,680)	1:74:A:ILE:H	1:76:A:ALA:H	15	0.16
(1,680)	1:74:A:ILE:H	1:76:A:ALA:H	16	0.16
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	5	0.16
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	15	0.16
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	5	0.16
(1,623)	1:70:A:LYS:HG2	1:71:A:GLU:HA	10	0.16
(1,623)	1:70:A:LYS:HG3	1:71:A:GLU:HA	10	0.16
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	11	0.16
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	11	0.16
(1,611)	1:70:A:LYS:H	1:72:A:ASP:H	10	0.16
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	13	0.16
(1,608)	1:70:A:LYS:H	1:70:A:LYS:HE2	13	0.16
(1,608)	1:70:A:LYS:H	1:70:A:LYS:HE3	13	0.16
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	3	0.16
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	6	0.16
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	10	0.16
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	13	0.16
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	16	0.16
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	6	0.16
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	10	0.16
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	17	0.16
(1,569)	1:66:A:GLN:HA	1:67:A:VAL:HB	4	0.16
(1,543)	1:62:A:VAL:HG13	1:63:A:SER:HA	16	0.16
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	12	0.16
(1,521)	1:60:A:VAL:HG23	1:68:A:ALA:H	2	0.16
(1,519)	1:60:A:VAL:HG23	1:61:A:ASN:H	17	0.16
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	9	0.16
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	2	0.16
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	2	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	12	0.16
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	12	0.16
(1,482)	1:58:A:VAL:HG13	1:59:A:PHE:H	5	0.16
(1,475)	1:58:A:VAL:H	1:58:A:VAL:HB	1	0.16
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	7	0.16
(1,427)	1:51:A:GLU:HA	1:53:A:LEU:H	6	0.16
(1,415)	1:49:A:LEU:HA	1:52:A:VAL:HG23	4	0.16
(1,415)	1:49:A:LEU:HA	1:52:A:VAL:HG23	9	0.16
(1,412)	1:49:A:LEU:H	1:50:A:ASP:H	13	0.16
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	4	0.16
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	4	0.16
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	2	0.16
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	2	0.16
(1,350)	1:39:A:VAL:H	1:39:A:VAL:HG23	4	0.16
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	10	0.16
(1,344)	1:38:A:VAL:HG23	1:39:A:VAL:HA	13	0.16
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	15	0.16
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	19	0.16
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	19	0.16
(1,321)	1:33:A:CYS:H	1:54:A:GLN:H	4	0.16
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	12	0.16
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	12	0.16
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	12	0.16
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	12	0.16
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	15	0.16
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	15	0.16
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	15	0.16
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	15	0.16
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	3	0.16
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	4	0.16
(1,273)	1:29:A:PHE:H	1:58:A:VAL:HG23	14	0.16
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	1	0.16
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	11	0.16
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	11	0.16
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB2	8	0.16
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB3	8	0.16
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB2	15	0.16
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB3	15	0.16
(1,207)	1:22:A:MET:HB2	1:94:A:GLU:H	18	0.16
(1,207)	1:22:A:MET:HB3	1:94:A:GLU:H	18	0.16
(1,196)	1:22:A:MET:HA	1:29:A:PHE:H	1	0.16
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	13	0.16
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	14	0.16
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	1	0.16
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	13	0.16
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	13	0.16
(1,109)	1:18:A:ALA:HA	1:32:A:ALA:HB3	11	0.16
(1,88)	1:15:A:THR:H	1:17:A:VAL:HG23	12	0.16
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	1	0.16
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	6	0.16
(1,48)	1:12:A:ILE:HG12	1:54:A:GLN:HA	6	0.16
(1,48)	1:12:A:ILE:HG13	1:54:A:GLN:HA	6	0.16
(1,46)	1:12:A:ILE:HG12	1:13:A:ARG:H	5	0.16
(1,46)	1:12:A:ILE:HG13	1:13:A:ARG:H	5	0.16
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	15	0.16
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	15	0.16
(1,35)	1:12:A:ILE:H	1:13:A:ARG:H	16	0.16
(1,13)	1:7:A:THR:HB	1:15:A:THR:HB	16	0.16
(1,11)	1:7:A:THR:HA	1:15:A:THR:HG23	15	0.16
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	6	0.16
(2,65)	1:218:A:CYS:O	1:222:A:ILE:H	3	0.15
(2,55)	1:178:A:PHE:H	1:210:A:ILE:O	20	0.15
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	5	0.15
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	8	0.15
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	10	0.15
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	16	0.15
(2,45)	1:155:A:GLN:O	1:158:A:GLU:H	18	0.15
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	15	0.15
(2,14)	1:48:A:ASP:O	1:52:A:VAL:H	12	0.15
(2,9)	1:34:A:TYR:O	1:38:A:VAL:H	14	0.15
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	10	0.15
(1,2226)	1:251:A:PHE:HB2	1:252:A:GLU:H	10	0.15
(1,2212)	1:250:A:LYS:H	1:251:A:PHE:HA	12	0.15
(1,2211)	1:250:A:LYS:H	1:251:A:PHE:H	18	0.15
(1,2200)	1:248:A:ASP:HA	1:250:A:LYS:H	7	0.15
(1,2200)	1:248:A:ASP:HA	1:250:A:LYS:H	11	0.15
(1,2195)	1:248:A:ASP:H	1:249:A:GLU:HA	4	0.15
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA2	18	0.15
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA3	18	0.15
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	6	0.15
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	6	0.15
(1,2146)	1:241:A:LEU:HD13	1:243:A:ASP:H	18	0.15
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	15	0.15
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	9	0.15
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	9	0.15
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	14	0.15
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	14	0.15
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD2	15	0.15
(1,2102)	1:233:A:LYS:H	1:233:A:LYS:HD3	15	0.15
(1,2096)	1:231:A:LYS:HG2	1:232:A:GLY:H	7	0.15
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	8	0.15
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	20	0.15
(1,2070)	1:230:A:THR:H	1:231:A:LYS:H	20	0.15
(1,2068)	1:229:A:GLU:HG2	1:230:A:THR:HB	4	0.15
(1,2068)	1:229:A:GLU:HG3	1:230:A:THR:HB	4	0.15
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE2	16	0.15
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE3	16	0.15
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE2	16	0.15
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE3	16	0.15
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	16	0.15
(1,2042)	1:228:A:LYS:H	1:228:A:LYS:HG3	10	0.15
(1,2042)	1:228:A:LYS:H	1:228:A:LYS:HG2	10	0.15
(1,2042)	1:228:A:LYS:H	1:228:A:LYS:HG3	10	0.15
(1,2042)	1:228:A:LYS:H	1:228:A:LYS:HG2	10	0.15
(1,2018)	1:226:A:ILE:HD13	1:230:A:THR:HG23	9	0.15
(1,2015)	1:226:A:ILE:HG23	1:231:A:LYS:H	16	0.15
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	1	0.15
(1,1945)	1:223:A:ASP:HB2	1:226:A:ILE:HG23	15	0.15
(1,1945)	1:223:A:ASP:HB3	1:226:A:ILE:HG23	15	0.15
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG12	8	0.15
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG13	8	0.15
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	4	0.15
(1,1920)	1:221:A:GLU:HA	1:224:A:GLU:HB2	2	0.15
(1,1920)	1:221:A:GLU:HA	1:224:A:GLU:HB3	2	0.15
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	4	0.15
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	9	0.15
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	1	0.15
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	9	0.15
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	13	0.15
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	13	0.15
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	18	0.15
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	18	0.15
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	4	0.15
(1,1854)	1:207:A:GLN:HA	1:208:A:LEU:H	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	5	0.15
(1,1843)	1:204:A:TYR:HD1	1:208:A:LEU:HD13	14	0.15
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	2	0.15
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	2	0.15
(1,1820)	1:203:A:ASP:HA	1:208:A:LEU:HA	5	0.15
(1,1791)	1:202:A:GLU:H	1:248:A:ASP:H	13	0.15
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	3	0.15
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	5	0.15
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG13	18	0.15
(1,1720)	1:198:A:VAL:H	1:198:A:VAL:HG23	18	0.15
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	4	0.15
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	4	0.15
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	9	0.15
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	9	0.15
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	19	0.15
(1,1640)	1:189:A:LYS:HG2	1:193:A:LYS:HE2	11	0.15
(1,1640)	1:189:A:LYS:HG2	1:193:A:LYS:HE3	11	0.15
(1,1640)	1:189:A:LYS:HG3	1:193:A:LYS:HE2	11	0.15
(1,1640)	1:189:A:LYS:HG3	1:193:A:LYS:HE3	11	0.15
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	5	0.15
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG2	4	0.15
(1,1609)	1:188:A:LEU:HB2	1:229:A:GLU:HG3	4	0.15
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG2	4	0.15
(1,1609)	1:188:A:LEU:HB3	1:229:A:GLU:HG3	4	0.15
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	12	0.15
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	19	0.15
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	2	0.15
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	12	0.15
(1,1591)	1:187:A:LYS:HB2	1:189:A:LYS:H	3	0.15
(1,1591)	1:187:A:LYS:HB3	1:189:A:LYS:H	3	0.15
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB2	1	0.15
(1,1586)	1:187:A:LYS:H	1:188:A:LEU:HB3	1	0.15
(1,1569)	1:186:A:LYS:H	1:187:A:LYS:HB2	17	0.15
(1,1569)	1:186:A:LYS:H	1:187:A:LYS:HB3	17	0.15
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	5	0.15
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB2	1	0.15
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB3	1	0.15
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB2	13	0.15
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB3	13	0.15
(1,1524)	1:181:A:PRO:HG2	1:182:A:VAL:H	9	0.15
(1,1524)	1:181:A:PRO:HG3	1:182:A:VAL:H	9	0.15
(1,1524)	1:181:A:PRO:HG2	1:182:A:VAL:H	19	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1524)	1:181:A:PRO:HG3	1:182:A:VAL:H	19	0.15
(1,1520)	1:181:A:PRO:HA	1:207:A:GLN:HA	13	0.15
(1,1501)	1:179:A:ILE:H	1:237:A:GLU:H	15	0.15
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	3	0.15
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	4	0.15
(1,1468)	1:177:A:ARG:H	1:212:A:CYS:H	15	0.15
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	3	0.15
(1,1451)	1:176:A:LEU:H	1:239:A:LEU:H	14	0.15
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	5	0.15
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	5	0.15
(1,1442)	1:175:A:ARG:HG2	1:199:A:ILE:HD13	13	0.15
(1,1442)	1:175:A:ARG:HG3	1:199:A:ILE:HD13	13	0.15
(1,1437)	1:175:A:ARG:HA	1:213:A:LEU:H	9	0.15
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	12	0.15
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	12	0.15
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB2	18	0.15
(1,1428)	1:174:A:MET:HA	1:175:A:ARG:HB3	18	0.15
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	3	0.15
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	3	0.15
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	1	0.15
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	14	0.15
(1,1398)	1:169:A:ILE:H	1:169:A:ILE:HD13	19	0.15
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	19	0.15
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	11	0.15
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	11	0.15
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	10	0.15
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	10	0.15
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	18	0.15
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	18	0.15
(1,1346)	1:162:A:GLN:H	1:165:A:GLU:H	12	0.15
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	16	0.15
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	9	0.15
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	17	0.15
(1,1283)	1:156:A:ALA:H	1:157:A:LEU:HA	20	0.15
(1,1279)	1:155:A:GLN:HG2	1:158:A:GLU:H	3	0.15
(1,1279)	1:155:A:GLN:HG3	1:158:A:GLU:H	3	0.15
(1,1279)	1:155:A:GLN:HG2	1:158:A:GLU:H	7	0.15
(1,1279)	1:155:A:GLN:HG3	1:158:A:GLU:H	7	0.15
(1,1268)	1:154:A:GLN:HA	1:156:A:ALA:H	13	0.15
(1,1266)	1:154:A:GLN:H	1:156:A:ALA:HB3	6	0.15
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE2	15	0.15
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE3	15	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE2	15	0.15
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE3	15	0.15
(1,1240)	1:152:A:THR:HA	1:152:A:THR:HG23	13	0.15
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	17	0.15
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	13	0.15
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	13	0.15
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB2	15	0.15
(1,1196)	1:140:A:LYS:H	1:141:A:ASP:HB3	15	0.15
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	4	0.15
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	6	0.15
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	6	0.15
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	6	0.15
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD2	5	0.15
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD3	5	0.15
(1,1155)	1:136:A:GLU:HB2	1:139:A:MET:H	5	0.15
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	16	0.15
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	16	0.15
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	16	0.15
(1,1133)	1:134:A:LEU:H	1:135:A:ILE:HA	9	0.15
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	18	0.15
(1,1116)	1:133:A:ILE:HA	1:135:A:ILE:HG23	5	0.15
(1,1099)	1:132:A:VAL:HG13	1:133:A:ILE:HD13	14	0.15
(1,1050)	1:122:A:VAL:HG13	1:129:A:PRO:HA	3	0.15
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB2	16	0.15
(1,1044)	1:121:A:CYS:H	1:216:A:PRO:HB3	16	0.15
(1,1029)	1:119:A:ASP:H	1:120:A:LYS:H	4	0.15
(1,1024)	1:118:A:ALA:HB3	1:132:A:VAL:H	13	0.15
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	12	0.15
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	11	0.15
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG2	18	0.15
(1,977)	1:111:A:ARG:HB2	1:136:A:GLU:HG3	18	0.15
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG2	18	0.15
(1,977)	1:111:A:ARG:HB3	1:136:A:GLU:HG3	18	0.15
(1,966)	1:111:A:ARG:H	1:112:A:ASP:HA	4	0.15
(1,966)	1:111:A:ARG:H	1:112:A:ASP:HA	13	0.15
(1,966)	1:111:A:ARG:H	1:112:A:ASP:HA	16	0.15
(1,963)	1:110:A:PHE:HA	1:111:A:ARG:H	12	0.15
(1,963)	1:110:A:PHE:HA	1:111:A:ARG:H	13	0.15
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	2	0.15
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	16	0.15
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	13	0.15
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,918)	1:93:A:GLY:H	1:95:A:VAL:H	9	0.15
(1,910)	1:92:A:LYS:H	1:93:A:GLY:H	5	0.15
(1,902)	1:91:A:THR:HA	1:91:A:THR:HG23	12	0.15
(1,901)	1:91:A:THR:H	1:93:A:GLY:H	5	0.15
(1,893)	1:90:A:LEU:HG	1:91:A:THR:H	9	0.15
(1,878)	1:89:A:ILE:HG23	1:90:A:LEU:H	9	0.15
(1,872)	1:89:A:ILE:HA	1:91:A:THR:HG23	11	0.15
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	10	0.15
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	1	0.15
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	1	0.15
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	8	0.15
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	1	0.15
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	1	0.15
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	1	0.15
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	1	0.15
(1,836)	1:87:A:LYS:HB2	1:89:A:ILE:H	11	0.15
(1,836)	1:87:A:LYS:HB3	1:89:A:ILE:H	11	0.15
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	17	0.15
(1,829)	1:87:A:LYS:HA	1:90:A:LEU:H	20	0.15
(1,826)	1:87:A:LYS:H	1:90:A:LEU:HB2	6	0.15
(1,826)	1:87:A:LYS:H	1:90:A:LEU:HB3	6	0.15
(1,801)	1:85:A:ILE:HA	1:87:A:LYS:H	5	0.15
(1,800)	1:85:A:ILE:H	1:88:A:GLN:H	17	0.15
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	19	0.15
(1,782)	1:84:A:GLU:H	1:85:A:ILE:HA	19	0.15
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	17	0.15
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB2	8	0.15
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB3	8	0.15
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB2	8	0.15
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB3	8	0.15
(1,720)	1:76:A:ALA:H	1:77:A:PHE:HA	2	0.15
(1,704)	1:75:A:SER:H	1:75:A:SER:HB2	3	0.15
(1,704)	1:75:A:SER:H	1:75:A:SER:HB3	3	0.15
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	3	0.15
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	17	0.15
(1,668)	1:73:A:LEU:HD13	1:74:A:ILE:H	2	0.15
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	19	0.15
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	18	0.15
(1,642)	1:72:A:ASP:H	1:75:A:SER:H	17	0.15
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	14	0.15
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	19	0.15
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	6	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG3	3	0.15
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG2	3	0.15
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG3	3	0.15
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG2	3	0.15
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD2	17	0.15
(1,595)	1:69:A:LYS:HA	1:69:A:LYS:HD3	17	0.15
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	1	0.15
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	8	0.15
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	9	0.15
(1,579)	1:67:A:VAL:HA	1:68:A:ALA:H	10	0.15
(1,570)	1:66:A:GLN:HA	1:67:A:VAL:HG23	4	0.15
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	3	0.15
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	5	0.15
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	7	0.15
(1,517)	1:60:A:VAL:HB	1:68:A:ALA:HA	18	0.15
(1,515)	1:60:A:VAL:HB	1:67:A:VAL:H	10	0.15
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	16	0.15
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	16	0.15
(1,495)	1:59:A:PHE:HA	1:67:A:VAL:HA	4	0.15
(1,476)	1:58:A:VAL:H	1:67:A:VAL:HG13	9	0.15
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	8	0.15
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	14	0.15
(1,473)	1:57:A:SER:HA	1:67:A:VAL:HG13	17	0.15
(1,471)	1:57:A:SER:H	1:58:A:VAL:H	6	0.15
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	5	0.15
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB2	11	0.15
(1,453)	1:53:A:LEU:HD23	1:86:A:CYS:HB3	11	0.15
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	16	0.15
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	16	0.15
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	10	0.15
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	10	0.15
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	17	0.15
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	17	0.15
(1,430)	1:52:A:VAL:H	1:52:A:VAL:HG23	4	0.15
(1,412)	1:49:A:LEU:H	1:50:A:ASP:H	20	0.15
(1,405)	1:47:A:LYS:HD2	1:52:A:VAL:HG23	4	0.15
(1,405)	1:47:A:LYS:HD3	1:52:A:VAL:HG23	4	0.15
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB2	7	0.15
(1,395)	1:47:A:LYS:H	1:47:A:LYS:HB3	7	0.15
(1,368)	1:43:A:SER:H	1:43:A:SER:HB2	12	0.15
(1,368)	1:43:A:SER:H	1:43:A:SER:HB3	12	0.15
(1,363)	1:41:A:TRP:HA	1:46:A:GLU:HA	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,359)	1:41:A:TRP:H	1:45:A:VAL:H	17	0.15
(1,350)	1:39:A:VAL:H	1:39:A:VAL:HG23	20	0.15
(1,342)	1:38:A:VAL:HG13	1:95:A:VAL:HB	20	0.15
(1,330)	1:34:A:TYR:H	1:53:A:LEU:H	10	0.15
(1,255)	1:27:A:LYS:HG2	1:28:A:ARG:H	15	0.15
(1,255)	1:27:A:LYS:HG3	1:28:A:ARG:H	15	0.15
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	20	0.15
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	6	0.15
(1,239)	1:24:A:ARG:HA	1:24:A:ARG:HG2	20	0.15
(1,239)	1:24:A:ARG:HA	1:24:A:ARG:HG3	20	0.15
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	5	0.15
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	1	0.15
(1,213)	1:22:A:MET:HG2	1:89:A:ILE:HG23	3	0.15
(1,213)	1:22:A:MET:HG3	1:89:A:ILE:HG23	3	0.15
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	17	0.15
(1,162)	1:21:A:ARG:H	1:89:A:ILE:HG23	20	0.15
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	18	0.15
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	18	0.15
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	5	0.15
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	19	0.15
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	19	0.15
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	19	0.15
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG2	7	0.15
(1,129)	1:19:A:VAL:HG23	1:96:A:GLN:HG3	7	0.15
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG2	4	0.15
(1,128)	1:19:A:VAL:HB	1:96:A:GLN:HG3	4	0.15
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	12	0.15
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	12	0.15
(1,125)	1:19:A:VAL:HA	1:32:A:ALA:HB3	12	0.15
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	9	0.15
(1,110)	1:18:A:ALA:HB3	1:19:A:VAL:H	5	0.15
(1,102)	1:18:A:ALA:H	1:19:A:VAL:HA	4	0.15
(1,75)	1:14:A:LEU:H	1:15:A:THR:HA	4	0.15
(1,46)	1:12:A:ILE:HG12	1:13:A:ARG:H	2	0.15
(1,46)	1:12:A:ILE:HG13	1:13:A:ARG:H	2	0.15
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	17	0.15
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	17	0.15
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG3	17	0.15
(1,43)	1:12:A:ILE:HA	1:13:A:ARG:HG2	17	0.15
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	14	0.15
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	14	0.15
(1,34)	1:12:A:ILE:H	1:12:A:ILE:HD13	13	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,31)	1:12:A:ILE:H	1:12:A:ILE:HB	5	0.15
(1,18)	1:7:A:THR:HG23	1:15:A:THR:HG23	12	0.15
(3,1)	1:36:A:ASN:O	1:40:A:GLY:H	9	0.14
(2,71)	1:226:A:ILE:O	1:230:A:THR:H	20	0.14
(2,60)	1:180:A:LEU:O	1:208:A:LEU:H	7	0.14
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	6	0.14
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	7	0.14
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	15	0.14
(2,50)	1:159:A:VAL:O	1:163:A:LEU:H	17	0.14
(2,37)	1:113:A:ILE:O	1:117:A:VAL:H	4	0.14
(2,35)	1:111:A:ARG:O	1:115:A:THR:H	12	0.14
(2,35)	1:111:A:ARG:O	1:115:A:THR:H	17	0.14
(2,28)	1:83:A:THR:O	1:87:A:LYS:H	7	0.14
(2,28)	1:83:A:THR:O	1:87:A:LYS:H	9	0.14
(2,27)	1:82:A:GLN:O	1:86:A:CYS:H	4	0.14
(2,21)	1:71:A:GLU:O	1:75:A:SER:H	20	0.14
(2,18)	1:61:A:ASN:O	1:66:A:GLN:H	9	0.14
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	8	0.14
(2,15)	1:60:A:VAL:H	1:66:A:GLN:O	13	0.14
(2,11)	1:40:A:GLY:O	1:45:A:VAL:H	4	0.14
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	20	0.14
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	13	0.14
(2,6)	1:24:A:ARG:O	1:27:A:LYS:H	2	0.14
(2,5)	1:22:A:MET:O	1:29:A:PHE:H	4	0.14
(2,3)	1:20:A:VAL:O	1:31:A:ILE:H	13	0.14
(1,2219)	1:251:A:PHE:H	1:251:A:PHE:HB2	9	0.14
(1,2219)	1:251:A:PHE:H	1:251:A:PHE:HB3	9	0.14
(1,2219)	1:251:A:PHE:H	1:251:A:PHE:HB2	14	0.14
(1,2219)	1:251:A:PHE:H	1:251:A:PHE:HB3	14	0.14
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB2	14	0.14
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB3	14	0.14
(1,2206)	1:249:A:GLU:HA	1:250:A:LYS:H	17	0.14
(1,2205)	1:249:A:GLU:H	1:250:A:LYS:HA	5	0.14
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	8	0.14
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	2	0.14
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	12	0.14
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB2	17	0.14
(1,2172)	1:245:A:GLU:H	1:245:A:GLU:HB3	17	0.14
(1,2165)	1:244:A:VAL:HA	1:245:A:GLU:H	6	0.14
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	5	0.14
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	5	0.14
(1,2157)	1:243:A:ASP:H	1:244:A:VAL:H	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2137)	1:238:A:VAL:HA	1:239:A:LEU:H	11	0.14
(1,2127)	1:236:A:LEU:HD23	1:237:A:GLU:H	13	0.14
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	8	0.14
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	16	0.14
(1,2103)	1:233:A:LYS:H	1:234:A:GLY:H	3	0.14
(1,2103)	1:233:A:LYS:H	1:234:A:GLY:H	19	0.14
(1,2097)	1:231:A:LYS:HE2	1:236:A:LEU:HD23	20	0.14
(1,2097)	1:231:A:LYS:HE3	1:236:A:LEU:HD23	20	0.14
(1,2094)	1:231:A:LYS:HG2	1:233:A:LYS:H	3	0.14
(1,2094)	1:231:A:LYS:HG3	1:233:A:LYS:H	3	0.14
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	7	0.14
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	9	0.14
(1,2069)	1:229:A:GLU:HG2	1:230:A:THR:HG23	12	0.14
(1,2069)	1:229:A:GLU:HG3	1:230:A:THR:HG23	12	0.14
(1,2064)	1:229:A:GLU:HA	1:231:A:LYS:H	10	0.14
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	6	0.14
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	1	0.14
(1,2028)	1:227:A:LYS:HA	1:231:A:LYS:H	4	0.14
(1,2023)	1:227:A:LYS:H	1:228:A:LYS:HG2	3	0.14
(1,2023)	1:227:A:LYS:H	1:228:A:LYS:HG3	3	0.14
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB2	11	0.14
(1,2017)	1:226:A:ILE:HG23	1:231:A:LYS:HB3	11	0.14
(1,1992)	1:226:A:ILE:H	1:229:A:GLU:H	13	0.14
(1,1972)	1:225:A:LEU:HB2	1:228:A:LYS:HE2	15	0.14
(1,1972)	1:225:A:LEU:HB2	1:228:A:LYS:HE3	15	0.14
(1,1972)	1:225:A:LEU:HB3	1:228:A:LYS:HE2	15	0.14
(1,1972)	1:225:A:LEU:HB3	1:228:A:LYS:HE3	15	0.14
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG2	20	0.14
(1,1964)	1:225:A:LEU:H	1:227:A:LYS:HG3	20	0.14
(1,1954)	1:224:A:GLU:HA	1:227:A:LYS:HD2	11	0.14
(1,1954)	1:224:A:GLU:HA	1:227:A:LYS:HD3	11	0.14
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	9	0.14
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	3	0.14
(1,1874)	1:210:A:ILE:HB	1:211:A:VAL:HA	5	0.14
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	4	0.14
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	4	0.14
(1,1864)	1:208:A:LEU:HB2	1:209:A:GLU:H	15	0.14
(1,1847)	1:205:A:GLY:H	1:208:A:LEU:HA	16	0.14
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	3	0.14
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	4	0.14
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	4	0.14
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	16	0.14
(1,1813)	1:203:A:ASP:H	1:210:A:ILE:HA	16	0.14
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB2	8	0.14
(1,1792)	1:202:A:GLU:H	1:248:A:ASP:HB3	8	0.14
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	20	0.14
(1,1774)	1:201:A:SER:H	1:202:A:GLU:H	3	0.14
(1,1770)	1:200:A:GLU:HB2	1:202:A:GLU:H	17	0.14
(1,1770)	1:200:A:GLU:HB3	1:202:A:GLU:H	17	0.14
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	8	0.14
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	8	0.14
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	10	0.14
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	18	0.14
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB2	3	0.14
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB3	3	0.14
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	4	0.14
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	14	0.14
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	5	0.14
(1,1726)	1:198:A:VAL:HB	1:199:A:ILE:H	20	0.14
(1,1708)	1:196:A:ILE:H	1:198:A:VAL:H	7	0.14
(1,1625)	1:189:A:LYS:HA	1:192:A:LEU:H	12	0.14
(1,1620)	1:189:A:LYS:H	1:190:A:GLU:HA	1	0.14
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	12	0.14
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	19	0.14
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	19	0.14
(1,1568)	1:186:A:LYS:H	1:187:A:LYS:HA	11	0.14
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	12	0.14
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB2	11	0.14
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB3	11	0.14
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB2	11	0.14
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB3	11	0.14
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA2	13	0.14
(1,1496)	1:179:A:ILE:H	1:234:A:GLY:HA3	13	0.14
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	15	0.14
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	18	0.14
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	1	0.14
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	10	0.14
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	10	0.14
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	10	0.14
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	10	0.14
(1,1423)	1:173:A:HIS:HB2	1:174:A:MET:H	17	0.14
(1,1423)	1:173:A:HIS:HB3	1:174:A:MET:H	17	0.14
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1405)	1:169:A:ILE:HG12	1:170:A:GLU:H	17	0.14
(1,1405)	1:169:A:ILE:HG13	1:170:A:GLU:H	17	0.14
(1,1393)	1:167:A:MET:H	1:167:A:MET:HB2	3	0.14
(1,1393)	1:167:A:MET:H	1:167:A:MET:HB3	3	0.14
(1,1386)	1:166:A:LYS:H	1:167:A:MET:H	18	0.14
(1,1369)	1:164:A:LYS:HA	1:168:A:LYS:HA	6	0.14
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	7	0.14
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	7	0.14
(1,1355)	1:163:A:LEU:H	1:166:A:LYS:H	4	0.14
(1,1350)	1:162:A:GLN:HG2	1:164:A:LYS:H	8	0.14
(1,1350)	1:162:A:GLN:HG3	1:164:A:LYS:H	8	0.14
(1,1315)	1:160:A:ILE:H	1:161:A:LYS:HB2	12	0.14
(1,1315)	1:160:A:ILE:H	1:161:A:LYS:HB3	12	0.14
(1,1308)	1:159:A:VAL:H	1:162:A:GLN:H	13	0.14
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	9	0.14
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	9	0.14
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	2	0.14
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	8	0.14
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	14	0.14
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	14	0.14
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	16	0.14
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	16	0.14
(1,1293)	1:157:A:LEU:HA	1:160:A:ILE:HB	7	0.14
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	4	0.14
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	1	0.14
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	1	0.14
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	15	0.14
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	15	0.14
(1,1277)	1:155:A:GLN:HB2	1:159:A:VAL:H	3	0.14
(1,1277)	1:155:A:GLN:HB3	1:159:A:VAL:H	3	0.14
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	11	0.14
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	11	0.14
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	20	0.14
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	20	0.14
(1,1252)	1:153:A:LYS:H	1:156:A:ALA:H	11	0.14
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	9	0.14
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	6	0.14
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	13	0.14
(1,1231)	1:146:A:VAL:H	1:147:A:LYS:HA	19	0.14
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	10	0.14
(1,1226)	1:145:A:SER:HA	1:146:A:VAL:H	1	0.14
(1,1226)	1:145:A:SER:HA	1:146:A:VAL:H	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1220)	1:144:A:TYR:H	1:144:A:TYR:HD1	19	0.14
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	6	0.14
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	11	0.14
(1,1204)	1:141:A:ASP:H	1:142:A:ILE:H	8	0.14
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	4	0.14
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	9	0.14
(1,1197)	1:140:A:LYS:H	1:142:A:ILE:H	10	0.14
(1,1195)	1:140:A:LYS:H	1:141:A:ASP:H	10	0.14
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	15	0.14
(1,1186)	1:138:A:ALA:HA	1:141:A:ASP:H	10	0.14
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	15	0.14
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	15	0.14
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	15	0.14
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	14	0.14
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	14	0.14
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD2	15	0.14
(1,1165)	1:137:A:ARG:HA	1:137:A:ARG:HD3	15	0.14
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	11	0.14
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	11	0.14
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	11	0.14
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB2	9	0.14
(1,1142)	1:135:A:ILE:HG23	1:139:A:MET:HB3	9	0.14
(1,1134)	1:135:A:ILE:H	1:136:A:GLU:H	2	0.14
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	7	0.14
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	1	0.14
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	15	0.14
(1,1115)	1:133:A:ILE:HA	1:135:A:ILE:H	14	0.14
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB2	11	0.14
(1,1102)	1:132:A:VAL:HG13	1:136:A:GLU:HB3	11	0.14
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA2	11	0.14
(1,1074)	1:129:A:PRO:HB2	1:217:A:GLY:HA3	11	0.14
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA2	11	0.14
(1,1074)	1:129:A:PRO:HB3	1:217:A:GLY:HA3	11	0.14
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	9	0.14
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	9	0.14
(1,1062)	1:126:A:THR:H	1:127:A:LYS:H	12	0.14
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	4	0.14
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	4	0.14
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD2	13	0.14
(1,1037)	1:120:A:LYS:HA	1:216:A:PRO:HD3	13	0.14
(1,1016)	1:118:A:ALA:H	1:119:A:ASP:HA	1	0.14
(1,1016)	1:118:A:ALA:H	1:119:A:ASP:HA	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1004)	1:117:A:VAL:H	1:118:A:ALA:H	6	0.14
(1,1004)	1:117:A:VAL:H	1:118:A:ALA:H	15	0.14
(1,1002)	1:116:A:ILE:HG23	1:117:A:VAL:HA	18	0.14
(1,995)	1:115:A:THR:HG23	1:132:A:VAL:HG23	15	0.14
(1,983)	1:114:A:ALA:HA	1:116:A:ILE:H	6	0.14
(1,963)	1:110:A:PHE:HA	1:111:A:ARG:H	16	0.14
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	2	0.14
(1,938)	1:95:A:VAL:HG13	1:95:A:VAL:HG23	4	0.14
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG2	13	0.14
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG3	13	0.14
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	1	0.14
(1,904)	1:91:A:THR:HB	1:92:A:LYS:H	4	0.14
(1,885)	1:90:A:LEU:H	1:91:A:THR:H	1	0.14
(1,885)	1:90:A:LEU:H	1:91:A:THR:H	2	0.14
(1,880)	1:89:A:ILE:HG23	1:93:A:GLY:H	3	0.14
(1,869)	1:89:A:ILE:HA	1:89:A:ILE:HG23	13	0.14
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB2	3	0.14
(1,868)	1:89:A:ILE:H	1:92:A:LYS:HB3	3	0.14
(1,864)	1:89:A:ILE:H	1:90:A:LEU:HB2	18	0.14
(1,864)	1:89:A:ILE:H	1:90:A:LEU:HB3	18	0.14
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	2	0.14
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	13	0.14
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	15	0.14
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	13	0.14
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	13	0.14
(1,850)	1:88:A:GLN:H	1:91:A:THR:H	16	0.14
(1,844)	1:88:A:GLN:H	1:88:A:GLN:HB2	2	0.14
(1,844)	1:88:A:GLN:H	1:88:A:GLN:HB3	2	0.14
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	15	0.14
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	15	0.14
(1,807)	1:86:A:CYS:H	1:88:A:GLN:H	17	0.14
(1,782)	1:84:A:GLU:H	1:85:A:ILE:HA	2	0.14
(1,742)	1:79:A:THR:HG23	1:81:A:ASP:H	20	0.14
(1,739)	1:79:A:THR:HB	1:80:A:ASP:H	10	0.14
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	4	0.14
(1,726)	1:77:A:PHE:H	1:78:A:GLY:H	8	0.14
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	8	0.14
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	8	0.14
(1,709)	1:75:A:SER:H	1:78:A:GLY:H	7	0.14
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	12	0.14
(1,696)	1:74:A:ILE:HG21	1:80:A:ASP:HA	18	0.14
(1,696)	1:74:A:ILE:HG22	1:80:A:ASP:HA	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,689)	1:74:A:ILE:HA	1:81:A:ASP:H	7	0.14
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	11	0.14
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	10	0.14
(1,669)	1:73:A:LEU:HD13	1:74:A:ILE:HA	7	0.14
(1,664)	1:73:A:LEU:HG	1:74:A:ILE:HA	13	0.14
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	8	0.14
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	16	0.14
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	20	0.14
(1,654)	1:73:A:LEU:H	1:74:A:ILE:HB	20	0.14
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	4	0.14
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	2	0.14
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	2	0.14
(1,646)	1:72:A:ASP:HA	1:76:A:ALA:H	18	0.14
(1,646)	1:72:A:ASP:HA	1:76:A:ALA:H	20	0.14
(1,640)	1:72:A:ASP:H	1:73:A:LEU:HA	20	0.14
(1,639)	1:72:A:ASP:H	1:73:A:LEU:H	15	0.14
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	6	0.14
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	5	0.14
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	7	0.14
(1,583)	1:67:A:VAL:HG13	1:69:A:LYS:HA	9	0.14
(1,581)	1:67:A:VAL:HB	1:69:A:LYS:HA	4	0.14
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	5	0.14
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	13	0.14
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	18	0.14
(1,561)	1:65:A:GLY:H	1:66:A:GLN:H	1	0.14
(1,545)	1:63:A:SER:H	1:64:A:LYS:H	7	0.14
(1,526)	1:61:A:ASN:H	1:66:A:GLN:H	4	0.14
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	18	0.14
(1,519)	1:60:A:VAL:HG23	1:61:A:ASN:H	10	0.14
(1,510)	1:60:A:VAL:H	1:61:A:ASN:HB2	17	0.14
(1,510)	1:60:A:VAL:H	1:61:A:ASN:HB3	17	0.14
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	18	0.14
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	18	0.14
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	6	0.14
(1,491)	1:59:A:PHE:H	1:67:A:VAL:HG13	13	0.14
(1,483)	1:58:A:VAL:HG13	1:73:A:LEU:HG	20	0.14
(1,482)	1:58:A:VAL:HG13	1:59:A:PHE:H	16	0.14
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB2	18	0.14
(1,466)	1:55:A:THR:HB	1:57:A:SER:HB3	18	0.14
(1,463)	1:55:A:THR:H	1:57:A:SER:H	2	0.14
(1,462)	1:55:A:THR:H	1:55:A:THR:HG23	15	0.14
(1,433)	1:52:A:VAL:HA	1:52:A:VAL:HG23	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	4	0.14
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	4	0.14
(1,424)	1:51:A:GLU:H	1:52:A:VAL:H	9	0.14
(1,414)	1:49:A:LEU:HA	1:52:A:VAL:HA	14	0.14
(1,401)	1:47:A:LYS:HG2	1:52:A:VAL:H	3	0.14
(1,401)	1:47:A:LYS:HG3	1:52:A:VAL:H	3	0.14
(1,400)	1:47:A:LYS:HG2	1:48:A:ASP:HB2	19	0.14
(1,400)	1:47:A:LYS:HG2	1:48:A:ASP:HB3	19	0.14
(1,400)	1:47:A:LYS:HG3	1:48:A:ASP:HB2	19	0.14
(1,400)	1:47:A:LYS:HG3	1:48:A:ASP:HB3	19	0.14
(1,399)	1:47:A:LYS:HG2	1:48:A:ASP:H	14	0.14
(1,399)	1:47:A:LYS:HG3	1:48:A:ASP:H	14	0.14
(1,350)	1:39:A:VAL:H	1:39:A:VAL:HG23	15	0.14
(1,326)	1:34:A:TYR:H	1:34:A:TYR:HB2	10	0.14
(1,326)	1:34:A:TYR:H	1:34:A:TYR:HB3	10	0.14
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	2	0.14
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	2	0.14
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	2	0.14
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	2	0.14
(1,292)	1:30:A:GLU:HB2	1:58:A:VAL:HG23	14	0.14
(1,292)	1:30:A:GLU:HB3	1:58:A:VAL:HG23	14	0.14
(1,291)	1:30:A:GLU:HB2	1:31:A:ILE:H	5	0.14
(1,291)	1:30:A:GLU:HB3	1:31:A:ILE:H	5	0.14
(1,241)	1:24:A:ARG:HA	1:25:A:ALA:HB3	14	0.14
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	18	0.14
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	5	0.14
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	5	0.14
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE3	5	0.14
(1,217)	1:23:A:LYS:HA	1:23:A:LYS:HE2	5	0.14
(1,216)	1:23:A:LYS:H	1:29:A:PHE:H	4	0.14
(1,210)	1:22:A:MET:HG2	1:23:A:LYS:H	12	0.14
(1,210)	1:22:A:MET:HG3	1:23:A:LYS:H	12	0.14
(1,195)	1:22:A:MET:HA	1:28:A:ARG:HA	11	0.14
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG12	13	0.14
(1,189)	1:22:A:MET:H	1:89:A:ILE:HG13	13	0.14
(1,188)	1:22:A:MET:H	1:89:A:ILE:HB	4	0.14
(1,178)	1:22:A:MET:H	1:23:A:LYS:H	4	0.14
(1,175)	1:21:A:ARG:HG2	1:23:A:LYS:H	11	0.14
(1,175)	1:21:A:ARG:HG3	1:23:A:LYS:H	11	0.14
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	10	0.14
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	10	0.14
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	13	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,137)	1:20:A:VAL:HA	1:95:A:VAL:HG23	18	0.14
(1,135)	1:20:A:VAL:HA	1:89:A:ILE:HG23	5	0.14
(1,130)	1:20:A:VAL:H	1:20:A:VAL:HG23	11	0.14
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	3	0.14
(1,111)	1:18:A:ALA:HB3	1:19:A:VAL:HA	7	0.14
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	9	0.14
(1,102)	1:18:A:ALA:H	1:19:A:VAL:HA	19	0.14
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	19	0.14
(1,86)	1:15:A:THR:H	1:15:A:THR:HG23	20	0.14
(1,77)	1:14:A:LEU:H	1:17:A:VAL:H	12	0.14
(1,76)	1:14:A:LEU:H	1:15:A:THR:HG23	19	0.14
(1,75)	1:14:A:LEU:H	1:15:A:THR:HA	5	0.14
(1,70)	1:13:A:ARG:HB2	1:15:A:THR:HG23	11	0.14
(1,70)	1:13:A:ARG:HB3	1:15:A:THR:HG23	11	0.14
(1,69)	1:13:A:ARG:HB2	1:15:A:THR:HA	10	0.14
(1,69)	1:13:A:ARG:HB3	1:15:A:THR:HA	10	0.14
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG2	3	0.14
(1,58)	1:13:A:ARG:H	1:13:A:ARG:HG3	3	0.14
(1,53)	1:12:A:ILE:HG23	1:13:A:ARG:H	7	0.14
(1,42)	1:12:A:ILE:HA	1:13:A:ARG:HB2	19	0.14
(1,42)	1:12:A:ILE:HA	1:13:A:ARG:HB3	19	0.14
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	19	0.14
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	19	0.14
(1,35)	1:12:A:ILE:H	1:13:A:ARG:H	4	0.14
(1,35)	1:12:A:ILE:H	1:13:A:ARG:H	6	0.14
(1,22)	1:9:A:THR:HA	1:9:A:THR:HG23	20	0.14
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	4	0.14
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	11	0.14
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	19	0.13
(2,69)	1:222:A:ILE:O	1:226:A:ILE:H	11	0.13
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	11	0.13
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	20	0.13
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	7	0.13
(2,43)	1:151:A:SER:O	1:155:A:GLN:H	15	0.13
(2,18)	1:61:A:ASN:O	1:66:A:GLN:H	15	0.13
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	18	0.13
(2,3)	1:20:A:VAL:O	1:31:A:ILE:H	4	0.13
(2,3)	1:20:A:VAL:O	1:31:A:ILE:H	14	0.13
(1,2206)	1:249:A:GLU:HA	1:250:A:LYS:H	2	0.13
(1,2203)	1:249:A:GLU:H	1:249:A:GLU:HG2	3	0.13
(1,2203)	1:249:A:GLU:H	1:249:A:GLU:HG3	3	0.13
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2184)	1:246:A:GLU:HA	1:247:A:GLY:H	8	0.13
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	8	0.13
(1,2181)	1:246:A:GLU:H	1:247:A:GLY:H	10	0.13
(1,2178)	1:245:A:GLU:HG2	1:246:A:GLU:HA	3	0.13
(1,2178)	1:245:A:GLU:HG3	1:246:A:GLU:HA	3	0.13
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG13	10	0.13
(1,2162)	1:244:A:VAL:H	1:244:A:VAL:HG23	10	0.13
(1,2159)	1:243:A:ASP:HB2	1:244:A:VAL:HG13	11	0.13
(1,2159)	1:243:A:ASP:HB3	1:244:A:VAL:HG13	11	0.13
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	11	0.13
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	3	0.13
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	3	0.13
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	13	0.13
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB2	6	0.13
(1,2101)	1:233:A:LYS:H	1:233:A:LYS:HB3	6	0.13
(1,2099)	1:232:A:GLY:H	1:234:A:GLY:H	9	0.13
(1,2094)	1:231:A:LYS:HG2	1:233:A:LYS:H	7	0.13
(1,2094)	1:231:A:LYS:HG3	1:233:A:LYS:H	7	0.13
(1,2086)	1:231:A:LYS:HA	1:236:A:LEU:H	17	0.13
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	1	0.13
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	18	0.13
(1,2072)	1:230:A:THR:H	1:233:A:LYS:H	18	0.13
(1,2067)	1:229:A:GLU:HG2	1:230:A:THR:HA	4	0.13
(1,2067)	1:229:A:GLU:HG3	1:230:A:THR:HA	4	0.13
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE2	8	0.13
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE3	8	0.13
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE2	8	0.13
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE3	8	0.13
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE2	9	0.13
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE3	9	0.13
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE2	9	0.13
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE3	9	0.13
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	17	0.13
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	3	0.13
(1,2032)	1:227:A:LYS:HA	1:232:A:GLY:H	6	0.13
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	15	0.13
(1,1992)	1:226:A:ILE:H	1:229:A:GLU:H	10	0.13
(1,1977)	1:225:A:LEU:HG	1:226:A:ILE:HD13	14	0.13
(1,1955)	1:224:A:GLU:HA	1:227:A:LYS:HE2	3	0.13
(1,1955)	1:224:A:GLU:HA	1:227:A:LYS:HE3	3	0.13
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG12	9	0.13
(1,1944)	1:223:A:ASP:HA	1:226:A:ILE:HG13	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1935)	1:222:A:ILE:HG23	1:223:A:ASP:H	13	0.13
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	6	0.13
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	10	0.13
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	11	0.13
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	11	0.13
(1,1901)	1:219:A:PHE:H	1:222:A:ILE:H	2	0.13
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB2	17	0.13
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB3	17	0.13
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	20	0.13
(1,1879)	1:211:A:VAL:HG13	1:213:A:LEU:H	18	0.13
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	3	0.13
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	19	0.13
(1,1853)	1:207:A:GLN:H	1:208:A:LEU:HA	14	0.13
(1,1840)	1:204:A:TYR:HA	1:208:A:LEU:HA	7	0.13
(1,1838)	1:204:A:TYR:HA	1:207:A:GLN:H	1	0.13
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	1	0.13
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	1	0.13
(1,1827)	1:203:A:ASP:HB2	1:209:A:GLU:H	6	0.13
(1,1827)	1:203:A:ASP:HB3	1:209:A:GLU:H	6	0.13
(1,1809)	1:203:A:ASP:H	1:208:A:LEU:HD13	6	0.13
(1,1806)	1:202:A:GLU:HG2	1:248:A:ASP:H	3	0.13
(1,1806)	1:202:A:GLU:HG3	1:248:A:ASP:H	3	0.13
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	15	0.13
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	9	0.13
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	5	0.13
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	3	0.13
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	7	0.13
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	15	0.13
(1,1743)	1:199:A:ILE:HA	1:199:A:ILE:HG23	16	0.13
(1,1708)	1:196:A:ILE:H	1:198:A:VAL:H	5	0.13
(1,1708)	1:196:A:ILE:H	1:198:A:VAL:H	20	0.13
(1,1706)	1:196:A:ILE:H	1:196:A:ILE:HB	10	0.13
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG2	18	0.13
(1,1662)	1:191:A:LYS:HA	1:229:A:GLU:HG3	18	0.13
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	18	0.13
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG2	2	0.13
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG3	2	0.13
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG2	6	0.13
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG3	6	0.13
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG2	13	0.13
(1,1644)	1:190:A:GLU:H	1:190:A:GLU:HG3	13	0.13
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD2	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1635)	1:189:A:LYS:HB2	1:193:A:LYS:HD3	17	0.13
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD2	17	0.13
(1,1635)	1:189:A:LYS:HB3	1:193:A:LYS:HD3	17	0.13
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB2	10	0.13
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB3	10	0.13
(1,1626)	1:189:A:LYS:HA	1:192:A:LEU:HB2	9	0.13
(1,1626)	1:189:A:LYS:HA	1:192:A:LEU:HB3	9	0.13
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	7	0.13
(1,1621)	1:189:A:LYS:H	1:190:A:GLU:HG2	14	0.13
(1,1621)	1:189:A:LYS:H	1:190:A:GLU:HG3	14	0.13
(1,1602)	1:188:A:LEU:HA	1:192:A:LEU:H	20	0.13
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	18	0.13
(1,1600)	1:188:A:LEU:HA	1:190:A:GLU:H	20	0.13
(1,1599)	1:188:A:LEU:HA	1:188:A:LEU:HD13	10	0.13
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	4	0.13
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	7	0.13
(1,1594)	1:188:A:LEU:H	1:189:A:LYS:H	11	0.13
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD2	7	0.13
(1,1579)	1:186:A:LYS:HA	1:189:A:LYS:HD3	7	0.13
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	13	0.13
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	14	0.13
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	14	0.13
(1,1509)	1:180:A:LEU:H	1:208:A:LEU:HA	3	0.13
(1,1488)	1:178:A:PHE:H	1:211:A:VAL:H	4	0.13
(1,1465)	1:176:A:LEU:HD23	1:238:A:VAL:HA	20	0.13
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	15	0.13
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	15	0.13
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	16	0.13
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	16	0.13
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB2	7	0.13
(1,1446)	1:175:A:ARG:HD2	1:239:A:LEU:HB3	7	0.13
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB2	7	0.13
(1,1446)	1:175:A:ARG:HD3	1:239:A:LEU:HB3	7	0.13
(1,1443)	1:175:A:ARG:HG2	1:211:A:VAL:HG13	7	0.13
(1,1443)	1:175:A:ARG:HG3	1:211:A:VAL:HG13	7	0.13
(1,1404)	1:169:A:ILE:HB	1:170:A:GLU:H	13	0.13
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	6	0.13
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG2	2	0.13
(1,1385)	1:166:A:LYS:H	1:166:A:LYS:HG3	2	0.13
(1,1375)	1:164:A:LYS:HG2	1:169:A:ILE:HD13	2	0.13
(1,1375)	1:164:A:LYS:HG3	1:169:A:ILE:HD13	2	0.13
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	6	0.13
(1,1368)	1:164:A:LYS:HA	1:167:A:MET:HA	9	0.13
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	7	0.13
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	7	0.13
(1,1327)	1:161:A:LYS:H	1:162:A:GLN:H	16	0.13
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG2	4	0.13
(1,1318)	1:160:A:ILE:HA	1:161:A:LYS:HG3	4	0.13
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	1	0.13
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	1	0.13
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	6	0.13
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	13	0.13
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	13	0.13
(1,1289)	1:157:A:LEU:H	1:158:A:GLU:HA	19	0.13
(1,1281)	1:156:A:ALA:H	1:156:A:ALA:HB3	9	0.13
(1,1278)	1:155:A:GLN:HG2	1:157:A:LEU:H	3	0.13
(1,1278)	1:155:A:GLN:HG3	1:157:A:LEU:H	3	0.13
(1,1273)	1:155:A:GLN:HA	1:158:A:GLU:H	6	0.13
(1,1271)	1:155:A:GLN:H	1:156:A:ALA:H	13	0.13
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE2	13	0.13
(1,1238)	1:147:A:LYS:HA	1:147:A:LYS:HE3	13	0.13
(1,1226)	1:145:A:SER:HA	1:146:A:VAL:H	19	0.13
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	7	0.13
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	7	0.13
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	10	0.13
(1,1195)	1:140:A:LYS:H	1:141:A:ASP:H	1	0.13
(1,1195)	1:140:A:LYS:H	1:141:A:ASP:H	11	0.13
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB2	3	0.13
(1,1191)	1:138:A:ALA:HB3	1:166:A:LYS:HB3	3	0.13
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB2	4	0.13
(1,1190)	1:138:A:ALA:HB3	1:141:A:ASP:HB3	4	0.13
(1,1182)	1:138:A:ALA:H	1:139:A:MET:HA	4	0.13
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	2	0.13
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	2	0.13
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	2	0.13
(1,1169)	1:137:A:ARG:HB2	1:138:A:ALA:H	18	0.13
(1,1169)	1:137:A:ARG:HB3	1:138:A:ALA:H	18	0.13
(1,1157)	1:137:A:ARG:H	1:137:A:ARG:HB2	17	0.13
(1,1157)	1:137:A:ARG:H	1:137:A:ARG:HB3	17	0.13
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	18	0.13
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	18	0.13
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	18	0.13
(1,1134)	1:135:A:ILE:H	1:136:A:GLU:H	3	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1119)	1:133:A:ILE:HA	1:137:A:ARG:H	8	0.13
(1,1105)	1:133:A:ILE:H	1:133:A:ILE:HG12	12	0.13
(1,1105)	1:133:A:ILE:H	1:133:A:ILE:HG13	12	0.13
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	11	0.13
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	14	0.13
(1,1090)	1:132:A:VAL:H	1:133:A:ILE:H	10	0.13
(1,1088)	1:132:A:VAL:H	1:132:A:VAL:HB	10	0.13
(1,1083)	1:131:A:THR:HA	1:133:A:ILE:H	5	0.13
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	5	0.13
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	5	0.13
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	20	0.13
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	20	0.13
(1,1049)	1:122:A:VAL:HG13	1:123:A:ASN:H	12	0.13
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD2	13	0.13
(1,1041)	1:120:A:LYS:HE2	1:216:A:PRO:HD3	13	0.13
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD2	13	0.13
(1,1041)	1:120:A:LYS:HE3	1:216:A:PRO:HD3	13	0.13
(1,1020)	1:118:A:ALA:HA	1:135:A:ILE:H	4	0.13
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	18	0.13
(1,1005)	1:117:A:VAL:H	1:119:A:ASP:H	16	0.13
(1,1000)	1:116:A:ILE:HB	1:117:A:VAL:HB	20	0.13
(1,994)	1:115:A:THR:HG23	1:116:A:ILE:HD13	13	0.13
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	20	0.13
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	9	0.13
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	9	0.13
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	9	0.13
(1,965)	1:111:A:ARG:H	1:112:A:ASP:H	11	0.13
(1,963)	1:110:A:PHE:HA	1:111:A:ARG:H	6	0.13
(1,963)	1:110:A:PHE:HA	1:111:A:ARG:H	15	0.13
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	18	0.13
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	7	0.13
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	20	0.13
(1,955)	1:109:A:MET:H	1:109:A:MET:HG2	1	0.13
(1,955)	1:109:A:MET:H	1:109:A:MET:HG3	1	0.13
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	5	0.13
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	5	0.13
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	14	0.13
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	14	0.13
(1,925)	1:94:A:GLU:H	1:95:A:VAL:H	14	0.13
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB2	1	0.13
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB3	1	0.13
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB2	1	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB3	1	0.13
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB2	16	0.13
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB3	16	0.13
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB2	16	0.13
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB3	16	0.13
(1,902)	1:91:A:THR:HA	1:91:A:THR:HG23	1	0.13
(1,885)	1:90:A:LEU:H	1:91:A:THR:H	18	0.13
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	19	0.13
(1,859)	1:89:A:ILE:H	1:89:A:ILE:HG12	12	0.13
(1,859)	1:89:A:ILE:H	1:89:A:ILE:HG13	12	0.13
(1,839)	1:87:A:LYS:HG2	1:91:A:THR:H	10	0.13
(1,839)	1:87:A:LYS:HG3	1:91:A:THR:H	10	0.13
(1,837)	1:87:A:LYS:HG2	1:88:A:GLN:H	4	0.13
(1,837)	1:87:A:LYS:HG3	1:88:A:GLN:H	4	0.13
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	9	0.13
(1,817)	1:86:A:CYS:HA	1:90:A:LEU:HB2	11	0.13
(1,817)	1:86:A:CYS:HA	1:90:A:LEU:HB3	11	0.13
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG2	4	0.13
(1,804)	1:85:A:ILE:HA	1:88:A:GLN:HG3	4	0.13
(1,800)	1:85:A:ILE:H	1:88:A:GLN:H	8	0.13
(1,797)	1:85:A:ILE:H	1:86:A:CYS:H	17	0.13
(1,781)	1:84:A:GLU:H	1:85:A:ILE:H	20	0.13
(1,753)	1:81:A:ASP:H	1:84:A:GLU:H	20	0.13
(1,746)	1:80:A:ASP:HA	1:82:A:GLN:H	18	0.13
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	5	0.13
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	5	0.13
(1,713)	1:75:A:SER:HA	1:78:A:GLY:H	14	0.13
(1,711)	1:75:A:SER:HA	1:76:A:ALA:HB3	13	0.13
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	3	0.13
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	7	0.13
(1,641)	1:72:A:ASP:H	1:73:A:LEU:HG	1	0.13
(1,632)	1:71:A:GLU:HA	1:74:A:ILE:H	14	0.13
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG2	8	0.13
(1,626)	1:70:A:LYS:HE2	1:71:A:GLU:HG3	8	0.13
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG2	8	0.13
(1,626)	1:70:A:LYS:HE3	1:71:A:GLU:HG3	8	0.13
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	4	0.13
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	14	0.13
(1,589)	1:68:A:ALA:HB3	1:72:A:ASP:HB2	7	0.13
(1,589)	1:68:A:ALA:HB3	1:72:A:ASP:HB3	7	0.13
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	2	0.13
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE2	7	0.13
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE3	7	0.13
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE2	7	0.13
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE3	7	0.13
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE2	14	0.13
(1,557)	1:64:A:LYS:HG2	1:64:A:LYS:HE3	14	0.13
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE2	14	0.13
(1,557)	1:64:A:LYS:HG3	1:64:A:LYS:HE3	14	0.13
(1,529)	1:61:A:ASN:H	1:68:A:ALA:H	5	0.13
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	9	0.13
(1,509)	1:60:A:VAL:H	1:61:A:ASN:H	17	0.13
(1,505)	1:59:A:PHE:HB2	1:67:A:VAL:HA	14	0.13
(1,505)	1:59:A:PHE:HB3	1:67:A:VAL:HA	14	0.13
(1,504)	1:59:A:PHE:HB2	1:62:A:VAL:HG23	6	0.13
(1,504)	1:59:A:PHE:HB3	1:62:A:VAL:HG23	6	0.13
(1,493)	1:59:A:PHE:HA	1:60:A:VAL:HB	2	0.13
(1,492)	1:59:A:PHE:H	1:68:A:ALA:H	7	0.13
(1,489)	1:59:A:PHE:H	1:59:A:PHE:HE1	15	0.13
(1,474)	1:57:A:SER:HB2	1:69:A:LYS:HA	6	0.13
(1,474)	1:57:A:SER:HB3	1:69:A:LYS:HA	6	0.13
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG2	6	0.13
(1,470)	1:56:A:HIS:HA	1:82:A:GLN:HG3	6	0.13
(1,467)	1:56:A:HIS:HA	1:57:A:SER:H	15	0.13
(1,447)	1:53:A:LEU:HB2	1:83:A:THR:HA	18	0.13
(1,447)	1:53:A:LEU:HB3	1:83:A:THR:HA	18	0.13
(1,429)	1:52:A:VAL:H	1:52:A:VAL:HB	1	0.13
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	15	0.13
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	15	0.13
(1,412)	1:49:A:LEU:H	1:50:A:ASP:H	12	0.13
(1,412)	1:49:A:LEU:H	1:50:A:ASP:H	19	0.13
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	17	0.13
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	17	0.13
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	18	0.13
(1,384)	1:45:A:VAL:H	1:46:A:GLU:HA	19	0.13
(1,369)	1:43:A:SER:H	1:44:A:GLY:H	2	0.13
(1,330)	1:34:A:TYR:H	1:53:A:LEU:H	5	0.13
(1,320)	1:33:A:CYS:H	1:34:A:TYR:HA	20	0.13
(1,316)	1:32:A:ALA:HB3	1:55:A:THR:H	9	0.13
(1,300)	1:31:A:ILE:H	1:58:A:VAL:HG23	19	0.13
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	15	0.13
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	15	0.13
(1,260)	1:28:A:ARG:H	1:29:A:PHE:H	5	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,260)	1:28:A:ARG:H	1:29:A:PHE:H	19	0.13
(1,250)	1:27:A:LYS:HA	1:28:A:ARG:H	17	0.13
(1,243)	1:24:A:ARG:HB2	1:27:A:LYS:H	13	0.13
(1,243)	1:24:A:ARG:HB3	1:27:A:LYS:H	13	0.13
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	9	0.13
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	9	0.13
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	9	0.13
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	9	0.13
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	4	0.13
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	4	0.13
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	6	0.13
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	6	0.13
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	15	0.13
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	15	0.13
(1,224)	1:23:A:LYS:HA	1:29:A:PHE:H	11	0.13
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB2	7	0.13
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB3	7	0.13
(1,198)	1:22:A:MET:HA	1:93:A:GLY:HA2	16	0.13
(1,198)	1:22:A:MET:HA	1:93:A:GLY:HA3	16	0.13
(1,196)	1:22:A:MET:HA	1:29:A:PHE:H	3	0.13
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	12	0.13
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	11	0.13
(1,178)	1:22:A:MET:H	1:23:A:LYS:H	2	0.13
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	16	0.13
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	10	0.13
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	15	0.13
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	12	0.13
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	14	0.13
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	14	0.13
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB2	17	0.13
(1,139)	1:20:A:VAL:HA	1:96:A:GLN:HB3	17	0.13
(1,138)	1:20:A:VAL:HA	1:96:A:GLN:H	9	0.13
(1,95)	1:17:A:VAL:HA	1:18:A:ALA:H	11	0.13
(1,92)	1:16:A:ASN:HB2	1:34:A:TYR:HA	14	0.13
(1,92)	1:16:A:ASN:HB3	1:34:A:TYR:HA	14	0.13
(1,79)	1:14:A:LEU:HA	1:17:A:VAL:HB	10	0.13
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	15	0.13
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	15	0.13
(1,57)	1:13:A:ARG:H	1:13:A:ARG:HB2	17	0.13
(1,57)	1:13:A:ARG:H	1:13:A:ARG:HB3	17	0.13
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	16	0.13
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	11	0.13
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	13	0.13
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	15	0.13
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	15	0.13
(3,3)	1:197:A:LYS:O	1:213:A:LEU:H	11	0.12
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	1	0.12
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	12	0.12
(2,57)	1:179:A:ILE:H	1:235:A:SER:O	12	0.12
(2,51)	1:175:A:ARG:O	1:239:A:LEU:H	15	0.12
(2,49)	1:158:A:GLU:O	1:162:A:GLN:H	5	0.12
(2,49)	1:158:A:GLU:O	1:162:A:GLN:H	13	0.12
(2,43)	1:151:A:SER:O	1:155:A:GLN:H	9	0.12
(2,32)	1:87:A:LYS:O	1:91:A:THR:H	7	0.12
(2,20)	1:70:A:LYS:O	1:74:A:ILE:H	2	0.12
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	11	0.12
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	18	0.12
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB2	19	0.12
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB3	19	0.12
(1,2214)	1:250:A:LYS:HA	1:251:A:PHE:H	4	0.12
(1,2212)	1:250:A:LYS:H	1:251:A:PHE:HA	4	0.12
(1,2206)	1:249:A:GLU:HA	1:250:A:LYS:H	4	0.12
(1,2203)	1:249:A:GLU:H	1:249:A:GLU:HG2	20	0.12
(1,2203)	1:249:A:GLU:H	1:249:A:GLU:HG3	20	0.12
(1,2197)	1:248:A:ASP:HA	1:249:A:GLU:H	5	0.12
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA2	9	0.12
(1,2186)	1:246:A:GLU:HG2	1:247:A:GLY:HA3	9	0.12
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA2	9	0.12
(1,2186)	1:246:A:GLU:HG3	1:247:A:GLY:HA3	9	0.12
(1,2161)	1:244:A:VAL:H	1:244:A:VAL:HB	15	0.12
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	13	0.12
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	2	0.12
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	2	0.12
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	13	0.12
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	13	0.12
(1,2122)	1:236:A:LEU:HB2	1:237:A:GLU:H	16	0.12
(1,2122)	1:236:A:LEU:HB3	1:237:A:GLU:H	16	0.12
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	19	0.12
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	19	0.12
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	18	0.12
(1,2103)	1:233:A:LYS:H	1:234:A:GLY:H	10	0.12
(1,2100)	1:232:A:GLY:HA2	1:234:A:GLY:H	8	0.12
(1,2100)	1:232:A:GLY:HA3	1:234:A:GLY:H	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2096)	1:231:A:LYS:HG2	1:232:A:GLY:H	1	0.12
(1,2096)	1:231:A:LYS:HG2	1:232:A:GLY:H	13	0.12
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	11	0.12
(1,2070)	1:230:A:THR:H	1:231:A:LYS:H	15	0.12
(1,2012)	1:226:A:ILE:HG23	1:228:A:LYS:H	8	0.12
(1,2003)	1:226:A:ILE:HB	1:230:A:THR:H	19	0.12
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	17	0.12
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	17	0.12
(1,1950)	1:224:A:GLU:H	1:227:A:LYS:H	6	0.12
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	8	0.12
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	17	0.12
(1,1915)	1:221:A:GLU:H	1:222:A:ILE:H	8	0.12
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	1	0.12
(1,1907)	1:220:A:ARG:HA	1:221:A:GLU:H	14	0.12
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB2	14	0.12
(1,1905)	1:220:A:ARG:H	1:221:A:GLU:HB3	14	0.12
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	7	0.12
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	14	0.12
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	10	0.12
(1,1902)	1:219:A:PHE:HA	1:221:A:GLU:H	11	0.12
(1,1901)	1:219:A:PHE:H	1:222:A:ILE:H	13	0.12
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	10	0.12
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	7	0.12
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	7	0.12
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	14	0.12
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB2	12	0.12
(1,1828)	1:203:A:ASP:HB2	1:209:A:GLU:HB3	12	0.12
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB2	12	0.12
(1,1828)	1:203:A:ASP:HB3	1:209:A:GLU:HB3	12	0.12
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB2	1	0.12
(1,1799)	1:202:A:GLU:HA	1:248:A:ASP:HB3	1	0.12
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	7	0.12
(1,1772)	1:200:A:GLU:HG2	1:202:A:GLU:H	13	0.12
(1,1772)	1:200:A:GLU:HG3	1:202:A:GLU:H	13	0.12
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	3	0.12
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	3	0.12
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	6	0.12
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	6	0.12
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	16	0.12
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	19	0.12
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	6	0.12
(1,1763)	1:200:A:GLU:H	1:201:A:SER:H	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB2	6	0.12
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB3	6	0.12
(1,1748)	1:199:A:ILE:HB	1:201:A:SER:H	9	0.12
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	16	0.12
(1,1745)	1:199:A:ILE:HA	1:201:A:SER:H	1	0.12
(1,1744)	1:199:A:ILE:HA	1:200:A:GLU:HB2	14	0.12
(1,1744)	1:199:A:ILE:HA	1:200:A:GLU:HB3	14	0.12
(1,1733)	1:199:A:ILE:H	1:199:A:ILE:HB	13	0.12
(1,1728)	1:198:A:VAL:HB	1:210:A:ILE:HA	2	0.12
(1,1725)	1:198:A:VAL:HA	1:211:A:VAL:HB	3	0.12
(1,1706)	1:196:A:ILE:H	1:196:A:ILE:HB	3	0.12
(1,1706)	1:196:A:ILE:H	1:196:A:ILE:HB	7	0.12
(1,1702)	1:195:A:LEU:HB2	1:197:A:LYS:H	17	0.12
(1,1702)	1:195:A:LEU:HB3	1:197:A:LYS:H	17	0.12
(1,1699)	1:195:A:LEU:H	1:195:A:LEU:HD13	8	0.12
(1,1695)	1:193:A:LYS:HE2	1:210:A:ILE:HG23	8	0.12
(1,1695)	1:193:A:LYS:HE3	1:210:A:ILE:HG23	8	0.12
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE2	6	0.12
(1,1689)	1:193:A:LYS:HG2	1:193:A:LYS:HE3	6	0.12
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE2	6	0.12
(1,1689)	1:193:A:LYS:HG3	1:193:A:LYS:HE3	6	0.12
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	3	0.12
(1,1661)	1:191:A:LYS:HA	1:193:A:LYS:H	2	0.12
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG2	2	0.12
(1,1659)	1:191:A:LYS:H	1:193:A:LYS:HG3	2	0.12
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	7	0.12
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	11	0.12
(1,1645)	1:190:A:GLU:H	1:191:A:LYS:HA	4	0.12
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB2	19	0.12
(1,1628)	1:189:A:LYS:HA	1:193:A:LYS:HB3	19	0.12
(1,1622)	1:189:A:LYS:H	1:192:A:LEU:H	18	0.12
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	20	0.12
(1,1593)	1:188:A:LEU:H	1:188:A:LEU:HD13	4	0.12
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	10	0.12
(1,1583)	1:186:A:LYS:HG2	1:188:A:LEU:H	5	0.12
(1,1583)	1:186:A:LYS:HG3	1:188:A:LEU:H	5	0.12
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	7	0.12
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	2	0.12
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	8	0.12
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	11	0.12
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	19	0.12
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1547)	1:182:A:VAL:HG23	1:207:A:GLN:HA	5	0.12
(1,1542)	1:182:A:VAL:HG13	1:183:A:ASN:HA	6	0.12
(1,1540)	1:182:A:VAL:HB	1:206:A:GLN:HA	13	0.12
(1,1528)	1:182:A:VAL:H	1:182:A:VAL:HG13	10	0.12
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB2	17	0.12
(1,1526)	1:181:A:PRO:HD2	1:184:A:GLU:HB3	17	0.12
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB2	17	0.12
(1,1526)	1:181:A:PRO:HD3	1:184:A:GLU:HB3	17	0.12
(1,1520)	1:181:A:PRO:HA	1:207:A:GLN:HA	6	0.12
(1,1511)	1:180:A:LEU:HB2	1:185:A:GLY:H	13	0.12
(1,1511)	1:180:A:LEU:HB3	1:185:A:GLY:H	13	0.12
(1,1502)	1:179:A:ILE:HA	1:179:A:ILE:HD13	1	0.12
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	4	0.12
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	5	0.12
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	6	0.12
(1,1476)	1:177:A:ARG:HA	1:212:A:CYS:H	13	0.12
(1,1455)	1:176:A:LEU:HB2	1:213:A:LEU:HG	4	0.12
(1,1455)	1:176:A:LEU:HB3	1:213:A:LEU:HG	4	0.12
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	18	0.12
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	18	0.12
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	16	0.12
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	16	0.12
(1,1409)	1:170:A:GLU:H	1:171:A:ARG:H	9	0.12
(1,1406)	1:169:A:ILE:HG23	1:170:A:GLU:H	5	0.12
(1,1397)	1:169:A:ILE:H	1:169:A:ILE:HG23	12	0.12
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG2	18	0.12
(1,1388)	1:166:A:LYS:HA	1:166:A:LYS:HG3	18	0.12
(1,1380)	1:165:A:GLU:H	1:167:A:MET:H	3	0.12
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB2	20	0.12
(1,1365)	1:164:A:LYS:H	1:165:A:GLU:HB3	20	0.12
(1,1347)	1:162:A:GLN:HB2	1:163:A:LEU:H	17	0.12
(1,1347)	1:162:A:GLN:HB3	1:163:A:LEU:H	17	0.12
(1,1327)	1:161:A:LYS:H	1:162:A:GLN:H	20	0.12
(1,1325)	1:161:A:LYS:H	1:161:A:LYS:HB2	15	0.12
(1,1325)	1:161:A:LYS:H	1:161:A:LYS:HB3	15	0.12
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB2	16	0.12
(1,1307)	1:159:A:VAL:H	1:161:A:LYS:HB3	16	0.12
(1,1305)	1:159:A:VAL:H	1:160:A:ILE:HA	15	0.12
(1,1304)	1:159:A:VAL:H	1:160:A:ILE:H	5	0.12
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB2	1	0.12
(1,1300)	1:158:A:GLU:H	1:161:A:LYS:HB3	1	0.12
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB2	20	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1290)	1:157:A:LEU:H	1:158:A:GLU:HB3	20	0.12
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	9	0.12
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	9	0.12
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	1	0.12
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	1	0.12
(1,1275)	1:155:A:GLN:HB2	1:157:A:LEU:H	19	0.12
(1,1275)	1:155:A:GLN:HB3	1:157:A:LEU:H	19	0.12
(1,1272)	1:155:A:GLN:H	1:156:A:ALA:HB3	9	0.12
(1,1271)	1:155:A:GLN:H	1:156:A:ALA:H	12	0.12
(1,1264)	1:154:A:GLN:H	1:155:A:GLN:H	13	0.12
(1,1241)	1:152:A:THR:HA	1:156:A:ALA:H	15	0.12
(1,1230)	1:146:A:VAL:H	1:147:A:LYS:H	10	0.12
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	12	0.12
(1,1211)	1:142:A:ILE:HA	1:142:A:ILE:HD13	7	0.12
(1,1209)	1:142:A:ILE:H	1:143:A:HIS:H	5	0.12
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	10	0.12
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	10	0.12
(1,1186)	1:138:A:ALA:HA	1:141:A:ASP:H	12	0.12
(1,1182)	1:138:A:ALA:H	1:139:A:MET:HA	10	0.12
(1,1171)	1:137:A:ARG:HB2	1:138:A:ALA:HB3	8	0.12
(1,1171)	1:137:A:ARG:HB3	1:138:A:ALA:HB3	8	0.12
(1,1166)	1:137:A:ARG:HA	1:139:A:MET:H	13	0.12
(1,1110)	1:133:A:ILE:H	1:135:A:ILE:H	15	0.12
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	3	0.12
(1,1090)	1:132:A:VAL:H	1:133:A:ILE:H	4	0.12
(1,1076)	1:129:A:PRO:HG2	1:217:A:GLY:HA2	8	0.12
(1,1076)	1:129:A:PRO:HG2	1:217:A:GLY:HA3	8	0.12
(1,1076)	1:129:A:PRO:HG3	1:217:A:GLY:HA2	8	0.12
(1,1076)	1:129:A:PRO:HG3	1:217:A:GLY:HA3	8	0.12
(1,1070)	1:127:A:LYS:HG2	1:131:A:THR:H	2	0.12
(1,1070)	1:127:A:LYS:HG3	1:131:A:THR:H	2	0.12
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	20	0.12
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	20	0.12
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG3	20	0.12
(1,1058)	1:125:A:GLU:H	1:125:A:GLU:HG2	20	0.12
(1,1055)	1:124:A:PRO:HA	1:125:A:GLU:H	6	0.12
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB2	5	0.12
(1,1051)	1:122:A:VAL:HG13	1:129:A:PRO:HB3	5	0.12
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD2	5	0.12
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD3	5	0.12
(1,1029)	1:119:A:ASP:H	1:120:A:LYS:H	1	0.12
(1,1029)	1:119:A:ASP:H	1:120:A:LYS:H	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	17	0.12
(1,978)	1:111:A:ARG:HG2	1:132:A:VAL:HG13	8	0.12
(1,978)	1:111:A:ARG:HG3	1:132:A:VAL:HG13	8	0.12
(1,963)	1:110:A:PHE:HA	1:111:A:ARG:H	4	0.12
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	4	0.12
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	6	0.12
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	16	0.12
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	16	0.12
(1,954)	1:108:A:GLN:HG2	1:109:A:MET:H	17	0.12
(1,954)	1:108:A:GLN:HG3	1:109:A:MET:H	17	0.12
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG2	13	0.12
(1,942)	1:96:A:GLN:H	1:96:A:GLN:HG3	13	0.12
(1,929)	1:95:A:VAL:H	1:95:A:VAL:HB	20	0.12
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD2	7	0.12
(1,906)	1:91:A:THR:HG23	1:92:A:LYS:HD3	7	0.12
(1,904)	1:91:A:THR:HB	1:92:A:LYS:H	9	0.12
(1,890)	1:90:A:LEU:HA	1:95:A:VAL:HB	2	0.12
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	9	0.12
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB2	8	0.12
(1,842)	1:87:A:LYS:HE2	1:88:A:GLN:HB3	8	0.12
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB2	8	0.12
(1,842)	1:87:A:LYS:HE3	1:88:A:GLN:HB3	8	0.12
(1,832)	1:87:A:LYS:HA	1:91:A:THR:H	10	0.12
(1,828)	1:87:A:LYS:HA	1:89:A:ILE:H	16	0.12
(1,827)	1:87:A:LYS:HA	1:87:A:LYS:HE2	11	0.12
(1,827)	1:87:A:LYS:HA	1:87:A:LYS:HE3	11	0.12
(1,824)	1:87:A:LYS:H	1:89:A:ILE:HB	3	0.12
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	6	0.12
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	18	0.12
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	18	0.12
(1,782)	1:84:A:GLU:H	1:85:A:ILE:HA	4	0.12
(1,749)	1:80:A:ASP:HB2	1:82:A:GLN:H	13	0.12
(1,749)	1:80:A:ASP:HB3	1:82:A:GLN:H	13	0.12
(1,733)	1:78:A:GLY:H	1:79:A:THR:H	16	0.12
(1,723)	1:76:A:ALA:HA	1:78:A:GLY:H	3	0.12
(1,720)	1:76:A:ALA:H	1:77:A:PHE:HA	1	0.12
(1,720)	1:76:A:ALA:H	1:77:A:PHE:HA	19	0.12
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	6	0.12
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	6	0.12
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	18	0.12
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	18	0.12
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	7	0.12
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	14	0.12
(1,656)	1:73:A:LEU:H	1:75:A:SER:H	14	0.12
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	9	0.12
(1,646)	1:72:A:ASP:HA	1:76:A:ALA:H	10	0.12
(1,633)	1:71:A:GLU:HA	1:74:A:ILE:HB	19	0.12
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	8	0.12
(1,605)	1:69:A:LYS:HD2	1:70:A:LYS:H	2	0.12
(1,605)	1:69:A:LYS:HD3	1:70:A:LYS:H	2	0.12
(1,604)	1:69:A:LYS:HG3	1:71:A:GLU:H	1	0.12
(1,604)	1:69:A:LYS:HG2	1:71:A:GLU:H	1	0.12
(1,604)	1:69:A:LYS:HG3	1:71:A:GLU:H	1	0.12
(1,604)	1:69:A:LYS:HG2	1:71:A:GLU:H	1	0.12
(1,593)	1:69:A:LYS:H	1:71:A:GLU:H	9	0.12
(1,584)	1:68:A:ALA:H	1:68:A:ALA:HB3	4	0.12
(1,569)	1:66:A:GLN:HA	1:67:A:VAL:HB	12	0.12
(1,542)	1:62:A:VAL:HG13	1:63:A:SER:H	17	0.12
(1,538)	1:62:A:VAL:H	1:62:A:VAL:HG13	6	0.12
(1,538)	1:62:A:VAL:H	1:62:A:VAL:HG23	6	0.12
(1,526)	1:61:A:ASN:H	1:66:A:GLN:H	2	0.12
(1,524)	1:61:A:ASN:H	1:62:A:VAL:H	17	0.12
(1,514)	1:60:A:VAL:HB	1:66:A:GLN:H	9	0.12
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	3	0.12
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	6	0.12
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	6	0.12
(1,506)	1:59:A:PHE:HB2	1:67:A:VAL:HG13	19	0.12
(1,506)	1:59:A:PHE:HB3	1:67:A:VAL:HG13	19	0.12
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG12	19	0.12
(1,487)	1:58:A:VAL:HG23	1:89:A:ILE:HG13	19	0.12
(1,484)	1:58:A:VAL:HG13	1:73:A:LEU:HD23	17	0.12
(1,480)	1:58:A:VAL:HB	1:89:A:ILE:HD13	17	0.12
(1,450)	1:53:A:LEU:HD13	1:55:A:THR:HB	19	0.12
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD13	9	0.12
(1,442)	1:53:A:LEU:H	1:53:A:LEU:HD23	9	0.12
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	14	0.12
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	14	0.12
(1,392)	1:46:A:GLU:HB2	1:47:A:LYS:H	12	0.12
(1,392)	1:46:A:GLU:HB3	1:47:A:LYS:H	12	0.12
(1,356)	1:40:A:GLY:HA2	1:43:A:SER:H	18	0.12
(1,356)	1:40:A:GLY:HA3	1:43:A:SER:H	18	0.12
(1,341)	1:38:A:VAL:HG13	1:90:A:LEU:HG	19	0.12
(1,328)	1:34:A:TYR:H	1:52:A:VAL:HB	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,326)	1:34:A:TYR:H	1:34:A:TYR:HB2	12	0.12
(1,326)	1:34:A:TYR:H	1:34:A:TYR:HB3	12	0.12
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB2	19	0.12
(1,313)	1:32:A:ALA:HA	1:54:A:GLN:HB3	19	0.12
(1,295)	1:30:A:GLU:HG2	1:59:A:PHE:HA	15	0.12
(1,295)	1:30:A:GLU:HG3	1:59:A:PHE:HA	15	0.12
(1,285)	1:30:A:GLU:H	1:58:A:VAL:HG13	20	0.12
(1,281)	1:30:A:GLU:H	1:30:A:GLU:HB2	20	0.12
(1,281)	1:30:A:GLU:H	1:30:A:GLU:HB3	20	0.12
(1,278)	1:29:A:PHE:HB2	1:89:A:ILE:HB	7	0.12
(1,278)	1:29:A:PHE:HB3	1:89:A:ILE:HB	7	0.12
(1,269)	1:28:A:ARG:HG3	1:29:A:PHE:H	18	0.12
(1,269)	1:28:A:ARG:HG2	1:29:A:PHE:H	18	0.12
(1,269)	1:28:A:ARG:HG3	1:29:A:PHE:H	18	0.12
(1,257)	1:27:A:LYS:HE2	1:28:A:ARG:H	1	0.12
(1,257)	1:27:A:LYS:HE3	1:28:A:ARG:H	1	0.12
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD2	4	0.12
(1,253)	1:27:A:LYS:HB2	1:28:A:ARG:HD3	4	0.12
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD2	4	0.12
(1,253)	1:27:A:LYS:HB3	1:28:A:ARG:HD3	4	0.12
(1,244)	1:25:A:ALA:HA	1:27:A:LYS:H	17	0.12
(1,237)	1:24:A:ARG:H	1:27:A:LYS:HA	20	0.12
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD2	12	0.12
(1,231)	1:23:A:LYS:HG2	1:28:A:ARG:HD3	12	0.12
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD2	12	0.12
(1,231)	1:23:A:LYS:HG3	1:28:A:ARG:HD3	12	0.12
(1,227)	1:23:A:LYS:HB2	1:24:A:ARG:HA	16	0.12
(1,227)	1:23:A:LYS:HB3	1:24:A:ARG:HA	16	0.12
(1,220)	1:23:A:LYS:HA	1:28:A:ARG:HA	19	0.12
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB2	4	0.12
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB3	4	0.12
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB2	17	0.12
(1,214)	1:23:A:LYS:H	1:23:A:LYS:HB3	17	0.12
(1,190)	1:22:A:MET:H	1:89:A:ILE:HG23	3	0.12
(1,181)	1:22:A:MET:H	1:28:A:ARG:HA	16	0.12
(1,179)	1:22:A:MET:H	1:23:A:LYS:HA	15	0.12
(1,179)	1:22:A:MET:H	1:23:A:LYS:HA	17	0.12
(1,164)	1:21:A:ARG:H	1:94:A:GLU:H	10	0.12
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB2	17	0.12
(1,160)	1:21:A:ARG:H	1:22:A:MET:HB3	17	0.12
(1,151)	1:20:A:VAL:HG23	1:89:A:ILE:HB	14	0.12
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,118)	1:19:A:VAL:H	1:33:A:CYS:H	6	0.12
(1,100)	1:18:A:ALA:H	1:18:A:ALA:HB3	2	0.12
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	9	0.12
(1,79)	1:14:A:LEU:HA	1:17:A:VAL:HB	9	0.12
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG2	8	0.12
(1,60)	1:13:A:ARG:HA	1:13:A:ARG:HG3	8	0.12
(1,46)	1:12:A:ILE:HG12	1:13:A:ARG:H	9	0.12
(1,46)	1:12:A:ILE:HG13	1:13:A:ARG:H	9	0.12
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG12	7	0.12
(1,38)	1:12:A:ILE:HA	1:12:A:ILE:HG13	7	0.12
(1,30)	1:11:A:GLN:HB2	1:12:A:ILE:H	7	0.12
(1,30)	1:11:A:GLN:HB3	1:12:A:ILE:H	7	0.12
(1,26)	1:11:A:GLN:H	1:13:A:ARG:H	8	0.12
(1,25)	1:11:A:GLN:H	1:12:A:ILE:H	16	0.12
(1,23)	1:9:A:THR:HA	1:16:A:ASN:HA	9	0.12
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	3	0.12
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	3	0.11
(2,60)	1:180:A:LEU:O	1:208:A:LEU:H	5	0.11
(2,55)	1:178:A:PHE:H	1:210:A:ILE:O	5	0.11
(2,55)	1:178:A:PHE:H	1:210:A:ILE:O	15	0.11
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	17	0.11
(2,53)	1:177:A:ARG:H	1:237:A:GLU:O	11	0.11
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	11	0.11
(2,50)	1:159:A:VAL:O	1:163:A:LEU:H	2	0.11
(2,47)	1:156:A:ALA:O	1:160:A:ILE:H	19	0.11
(2,46)	1:155:A:GLN:O	1:159:A:VAL:H	19	0.11
(2,22)	1:72:A:ASP:O	1:76:A:ALA:H	20	0.11
(2,18)	1:61:A:ASN:O	1:66:A:GLN:H	11	0.11
(2,15)	1:60:A:VAL:H	1:66:A:GLN:O	12	0.11
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	6	0.11
(2,8)	1:30:A:GLU:O	1:59:A:PHE:H	8	0.11
(2,7)	1:30:A:GLU:H	1:59:A:PHE:O	9	0.11
(2,4)	1:21:A:ARG:H	1:94:A:GLU:O	4	0.11
(1,2226)	1:251:A:PHE:HB2	1:252:A:GLU:H	3	0.11
(1,2226)	1:251:A:PHE:HB2	1:252:A:GLU:H	5	0.11
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB2	11	0.11
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB3	11	0.11
(1,2211)	1:250:A:LYS:H	1:251:A:PHE:H	5	0.11
(1,2206)	1:249:A:GLU:HA	1:250:A:LYS:H	19	0.11
(1,2194)	1:248:A:ASP:H	1:249:A:GLU:H	7	0.11
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	2	0.11
(1,2188)	1:247:A:GLY:H	1:248:A:ASP:H	11	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA2	17	0.11
(1,2182)	1:246:A:GLU:H	1:247:A:GLY:HA3	17	0.11
(1,2169)	1:244:A:VAL:HG13	1:245:A:GLU:H	4	0.11
(1,2168)	1:244:A:VAL:HG13	1:244:A:VAL:HG23	15	0.11
(1,2157)	1:243:A:ASP:H	1:244:A:VAL:H	2	0.11
(1,2138)	1:238:A:VAL:HG23	1:239:A:LEU:H	4	0.11
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB2	2	0.11
(1,2115)	1:236:A:LEU:H	1:236:A:LEU:HB3	2	0.11
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	5	0.11
(1,2091)	1:231:A:LYS:HB2	1:233:A:LYS:H	9	0.11
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	12	0.11
(1,2082)	1:231:A:LYS:H	1:234:A:GLY:H	14	0.11
(1,2079)	1:231:A:LYS:H	1:232:A:GLY:H	12	0.11
(1,2065)	1:229:A:GLU:HB2	1:230:A:THR:HG23	12	0.11
(1,2065)	1:229:A:GLU:HB3	1:230:A:THR:HG23	12	0.11
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE2	12	0.11
(1,2056)	1:228:A:LYS:HG2	1:228:A:LYS:HE3	12	0.11
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE2	12	0.11
(1,2056)	1:228:A:LYS:HG3	1:228:A:LYS:HE3	12	0.11
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	8	0.11
(1,2046)	1:228:A:LYS:H	1:231:A:LYS:H	9	0.11
(1,2040)	1:227:A:LYS:HD2	1:228:A:LYS:H	2	0.11
(1,2040)	1:227:A:LYS:HD3	1:228:A:LYS:H	2	0.11
(1,2026)	1:227:A:LYS:H	1:232:A:GLY:H	7	0.11
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	6	0.11
(1,2005)	1:226:A:ILE:HG21	1:227:A:LYS:H	9	0.11
(1,1986)	1:226:A:ILE:H	1:226:A:ILE:HD13	11	0.11
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE2	6	0.11
(1,1980)	1:225:A:LEU:HD13	1:228:A:LYS:HE3	6	0.11
(1,1970)	1:225:A:LEU:HA	1:229:A:GLU:HB2	4	0.11
(1,1970)	1:225:A:LEU:HA	1:229:A:GLU:HB3	4	0.11
(1,1970)	1:225:A:LEU:HA	1:229:A:GLU:HB2	18	0.11
(1,1970)	1:225:A:LEU:HA	1:229:A:GLU:HB3	18	0.11
(1,1962)	1:225:A:LEU:H	1:226:A:ILE:HG12	11	0.11
(1,1962)	1:225:A:LEU:H	1:226:A:ILE:HG13	11	0.11
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	5	0.11
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	13	0.11
(1,1938)	1:223:A:ASP:H	1:224:A:GLU:HA	20	0.11
(1,1919)	1:221:A:GLU:HA	1:224:A:GLU:H	4	0.11
(1,1903)	1:219:A:PHE:HA	1:223:A:ASP:H	2	0.11
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	18	0.11
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	19	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1874)	1:210:A:ILE:HB	1:211:A:VAL:HA	2	0.11
(1,1874)	1:210:A:ILE:HB	1:211:A:VAL:HA	11	0.11
(1,1873)	1:210:A:ILE:HB	1:211:A:VAL:H	9	0.11
(1,1869)	1:209:A:GLU:HG2	1:210:A:ILE:HA	11	0.11
(1,1869)	1:209:A:GLU:HG3	1:210:A:ILE:HA	11	0.11
(1,1866)	1:209:A:GLU:H	1:210:A:ILE:H	11	0.11
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG12	16	0.11
(1,1865)	1:208:A:LEU:HD13	1:210:A:ILE:HG13	16	0.11
(1,1853)	1:207:A:GLN:H	1:208:A:LEU:HA	16	0.11
(1,1845)	1:205:A:GLY:H	1:207:A:GLN:HA	8	0.11
(1,1803)	1:202:A:GLU:HB2	1:248:A:ASP:H	12	0.11
(1,1803)	1:202:A:GLU:HB3	1:248:A:ASP:H	12	0.11
(1,1790)	1:202:A:GLU:H	1:211:A:VAL:H	8	0.11
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	12	0.11
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG2	2	0.11
(1,1767)	1:200:A:GLU:HA	1:200:A:GLU:HG3	2	0.11
(1,1765)	1:200:A:GLU:H	1:211:A:VAL:HB	1	0.11
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB2	17	0.11
(1,1762)	1:200:A:GLU:H	1:200:A:GLU:HB3	17	0.11
(1,1747)	1:199:A:ILE:HA	1:211:A:VAL:HB	14	0.11
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	13	0.11
(1,1734)	1:199:A:ILE:H	1:199:A:ILE:HG23	19	0.11
(1,1731)	1:198:A:VAL:HG13	1:210:A:ILE:HG23	1	0.11
(1,1729)	1:198:A:VAL:HB	1:211:A:VAL:H	11	0.11
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG2	3	0.11
(1,1682)	1:193:A:LYS:H	1:193:A:LYS:HG3	3	0.11
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	9	0.11
(1,1670)	1:192:A:LEU:H	1:193:A:LYS:H	11	0.11
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	6	0.11
(1,1625)	1:189:A:LYS:HA	1:192:A:LEU:H	9	0.11
(1,1619)	1:189:A:LYS:H	1:190:A:GLU:H	15	0.11
(1,1616)	1:188:A:LEU:HD13	1:230:A:THR:HB	18	0.11
(1,1593)	1:188:A:LEU:H	1:188:A:LEU:HD13	17	0.11
(1,1593)	1:188:A:LEU:H	1:188:A:LEU:HD13	19	0.11
(1,1592)	1:188:A:LEU:H	1:188:A:LEU:HG	13	0.11
(1,1570)	1:186:A:LYS:H	1:188:A:LEU:H	14	0.11
(1,1569)	1:186:A:LYS:H	1:187:A:LYS:HB2	14	0.11
(1,1569)	1:186:A:LYS:H	1:187:A:LYS:HB3	14	0.11
(1,1553)	1:184:A:GLU:HA	1:187:A:LYS:HA	20	0.11
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB2	15	0.11
(1,1535)	1:182:A:VAL:H	1:207:A:GLN:HB3	15	0.11
(1,1528)	1:182:A:VAL:H	1:182:A:VAL:HG13	5	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1528)	1:182:A:VAL:H	1:182:A:VAL:HG13	6	0.11
(1,1528)	1:182:A:VAL:H	1:182:A:VAL:HG13	13	0.11
(1,1525)	1:181:A:PRO:HG2	1:184:A:GLU:HA	16	0.11
(1,1525)	1:181:A:PRO:HG3	1:184:A:GLU:HA	16	0.11
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB2	2	0.11
(1,1522)	1:181:A:PRO:HB2	1:183:A:ASN:HB3	2	0.11
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB2	2	0.11
(1,1522)	1:181:A:PRO:HB3	1:183:A:ASN:HB3	2	0.11
(1,1513)	1:180:A:LEU:HD23	1:186:A:LYS:H	5	0.11
(1,1509)	1:180:A:LEU:H	1:208:A:LEU:HA	12	0.11
(1,1490)	1:178:A:PHE:H	1:236:A:LEU:HA	10	0.11
(1,1475)	1:177:A:ARG:HA	1:210:A:ILE:HA	13	0.11
(1,1444)	1:175:A:ARG:HG2	1:213:A:LEU:H	17	0.11
(1,1444)	1:175:A:ARG:HG3	1:213:A:LEU:H	17	0.11
(1,1441)	1:175:A:ARG:HG3	1:176:A:LEU:H	19	0.11
(1,1441)	1:175:A:ARG:HG2	1:176:A:LEU:H	19	0.11
(1,1441)	1:175:A:ARG:HG3	1:176:A:LEU:H	19	0.11
(1,1429)	1:174:A:MET:HB2	1:175:A:ARG:H	17	0.11
(1,1429)	1:174:A:MET:HB3	1:175:A:ARG:H	17	0.11
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	19	0.11
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	19	0.11
(1,1410)	1:170:A:GLU:H	1:171:A:ARG:HA	15	0.11
(1,1386)	1:166:A:LYS:H	1:167:A:MET:H	7	0.11
(1,1374)	1:164:A:LYS:HB2	1:169:A:ILE:HD13	12	0.11
(1,1374)	1:164:A:LYS:HB3	1:169:A:ILE:HD13	12	0.11
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB2	14	0.11
(1,1328)	1:161:A:LYS:H	1:162:A:GLN:HB3	14	0.11
(1,1315)	1:160:A:ILE:H	1:161:A:LYS:HB2	13	0.11
(1,1315)	1:160:A:ILE:H	1:161:A:LYS:HB3	13	0.11
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB2	14	0.11
(1,1309)	1:159:A:VAL:HA	1:162:A:GLN:HB3	14	0.11
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	9	0.11
(1,1299)	1:158:A:GLU:H	1:161:A:LYS:H	5	0.11
(1,1298)	1:158:A:GLU:H	1:160:A:ILE:H	18	0.11
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD13	6	0.11
(1,1288)	1:157:A:LEU:H	1:157:A:LEU:HD23	6	0.11
(1,1250)	1:153:A:LYS:H	1:154:A:GLN:HA	11	0.11
(1,1243)	1:152:A:THR:HB	1:153:A:LYS:H	18	0.11
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	10	0.11
(1,1222)	1:144:A:TYR:HA	1:144:A:TYR:HE1	18	0.11
(1,1212)	1:142:A:ILE:HA	1:143:A:HIS:H	17	0.11
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1201)	1:140:A:LYS:HA	1:143:A:HIS:H	11	0.11
(1,1195)	1:140:A:LYS:H	1:141:A:ASP:H	8	0.11
(1,1186)	1:138:A:ALA:HA	1:141:A:ASP:H	15	0.11
(1,1182)	1:138:A:ALA:H	1:139:A:MET:HA	8	0.11
(1,1181)	1:138:A:ALA:H	1:139:A:MET:H	4	0.11
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	2	0.11
(1,1177)	1:137:A:ARG:HD2	1:140:A:LYS:H	2	0.11
(1,1177)	1:137:A:ARG:HD3	1:140:A:LYS:H	2	0.11
(1,1173)	1:137:A:ARG:HB2	1:140:A:LYS:H	1	0.11
(1,1173)	1:137:A:ARG:HB3	1:140:A:LYS:H	1	0.11
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	16	0.11
(1,1172)	1:137:A:ARG:HB2	1:139:A:MET:H	16	0.11
(1,1172)	1:137:A:ARG:HB3	1:139:A:MET:H	16	0.11
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	6	0.11
(1,1153)	1:136:A:GLU:HB2	1:139:A:MET:H	6	0.11
(1,1153)	1:136:A:GLU:HB3	1:139:A:MET:H	6	0.11
(1,1134)	1:135:A:ILE:H	1:136:A:GLU:H	14	0.11
(1,1133)	1:134:A:LEU:H	1:135:A:ILE:HA	7	0.11
(1,1133)	1:134:A:LEU:H	1:135:A:ILE:HA	10	0.11
(1,1122)	1:133:A:ILE:HB	1:135:A:ILE:H	5	0.11
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	12	0.11
(1,1117)	1:133:A:ILE:HA	1:136:A:GLU:H	18	0.11
(1,1105)	1:133:A:ILE:H	1:133:A:ILE:HG12	16	0.11
(1,1105)	1:133:A:ILE:H	1:133:A:ILE:HG13	16	0.11
(1,1083)	1:131:A:THR:HA	1:133:A:ILE:H	9	0.11
(1,1082)	1:131:A:THR:HA	1:132:A:VAL:H	7	0.11
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	4	0.11
(1,1053)	1:122:A:VAL:HG23	1:123:A:ASN:H	20	0.11
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD2	4	0.11
(1,1035)	1:120:A:LYS:HA	1:120:A:LYS:HD3	4	0.11
(1,1023)	1:118:A:ALA:HB3	1:131:A:THR:HA	12	0.11
(1,1016)	1:118:A:ALA:H	1:119:A:ASP:HA	12	0.11
(1,1008)	1:117:A:VAL:HA	1:119:A:ASP:H	13	0.11
(1,1006)	1:117:A:VAL:H	1:120:A:LYS:H	3	0.11
(1,998)	1:116:A:ILE:H	1:119:A:ASP:H	1	0.11
(1,966)	1:111:A:ARG:H	1:112:A:ASP:HA	12	0.11
(1,963)	1:110:A:PHE:HA	1:111:A:ARG:H	9	0.11
(1,962)	1:110:A:PHE:H	1:111:A:ARG:HA	5	0.11
(1,958)	1:109:A:MET:HA	1:111:A:ARG:H	2	0.11
(1,957)	1:109:A:MET:H	1:111:A:ARG:HB2	17	0.11
(1,957)	1:109:A:MET:H	1:111:A:ARG:HB3	17	0.11
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	8	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,956)	1:109:A:MET:H	1:111:A:ARG:H	14	0.11
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG2	6	0.11
(1,935)	1:95:A:VAL:HA	1:96:A:GLN:HG3	6	0.11
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB2	18	0.11
(1,921)	1:93:A:GLY:HA2	1:94:A:GLU:HB3	18	0.11
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB2	18	0.11
(1,921)	1:93:A:GLY:HA3	1:94:A:GLU:HB3	18	0.11
(1,884)	1:90:A:LEU:H	1:90:A:LEU:HD23	9	0.11
(1,877)	1:89:A:ILE:HG12	1:89:A:ILE:HG23	10	0.11
(1,877)	1:89:A:ILE:HG13	1:89:A:ILE:HG23	10	0.11
(1,867)	1:89:A:ILE:H	1:92:A:LYS:H	7	0.11
(1,866)	1:89:A:ILE:H	1:91:A:THR:HG23	20	0.11
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	10	0.11
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	11	0.11
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG2	17	0.11
(1,851)	1:88:A:GLN:HA	1:88:A:GLN:HG3	17	0.11
(1,809)	1:86:A:CYS:H	1:89:A:ILE:HD13	1	0.11
(1,795)	1:85:A:ILE:H	1:85:A:ILE:HG12	1	0.11
(1,795)	1:85:A:ILE:H	1:85:A:ILE:HG13	1	0.11
(1,787)	1:84:A:GLU:HA	1:86:A:CYS:H	7	0.11
(1,785)	1:84:A:GLU:HA	1:84:A:GLU:HG2	10	0.11
(1,785)	1:84:A:GLU:HA	1:84:A:GLU:HG3	10	0.11
(1,765)	1:82:A:GLN:HA	1:85:A:ILE:H	4	0.11
(1,763)	1:82:A:GLN:H	1:84:A:GLU:H	2	0.11
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB2	11	0.11
(1,758)	1:81:A:ASP:HB2	1:84:A:GLU:HB3	11	0.11
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB2	11	0.11
(1,758)	1:81:A:ASP:HB3	1:84:A:GLU:HB3	11	0.11
(1,742)	1:79:A:THR:HG23	1:81:A:ASP:H	4	0.11
(1,734)	1:79:A:THR:H	1:79:A:THR:HG23	14	0.11
(1,733)	1:78:A:GLY:H	1:79:A:THR:H	15	0.11
(1,721)	1:76:A:ALA:H	1:78:A:GLY:H	19	0.11
(1,717)	1:75:A:SER:HB2	1:78:A:GLY:H	17	0.11
(1,717)	1:75:A:SER:HB3	1:78:A:GLY:H	17	0.11
(1,716)	1:75:A:SER:HB2	1:77:A:PHE:H	9	0.11
(1,716)	1:75:A:SER:HB3	1:77:A:PHE:H	9	0.11
(1,712)	1:75:A:SER:HA	1:77:A:PHE:H	11	0.11
(1,709)	1:75:A:SER:H	1:78:A:GLY:H	10	0.11
(1,697)	1:74:A:ILE:HG23	1:75:A:SER:H	4	0.11
(1,687)	1:74:A:ILE:HA	1:79:A:THR:H	12	0.11
(1,680)	1:74:A:ILE:H	1:76:A:ALA:H	6	0.11
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	16	0.11
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	18	0.11
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	20	0.11
(1,651)	1:73:A:LEU:H	1:73:A:LEU:HD13	2	0.11
(1,646)	1:72:A:ASP:HA	1:76:A:ALA:H	13	0.11
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	18	0.11
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG2	7	0.11
(1,625)	1:70:A:LYS:HD2	1:71:A:GLU:HG3	7	0.11
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG2	7	0.11
(1,625)	1:70:A:LYS:HD3	1:71:A:GLU:HG3	7	0.11
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	1	0.11
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	15	0.11
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB2	1	0.11
(1,612)	1:70:A:LYS:H	1:72:A:ASP:HB3	1	0.11
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB2	7	0.11
(1,610)	1:70:A:LYS:H	1:71:A:GLU:HB3	7	0.11
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	12	0.11
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	16	0.11
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	15	0.11
(1,592)	1:69:A:LYS:H	1:70:A:LYS:H	18	0.11
(1,569)	1:66:A:GLN:HA	1:67:A:VAL:HB	1	0.11
(1,550)	1:64:A:LYS:H	1:66:A:GLN:H	11	0.11
(1,545)	1:63:A:SER:H	1:64:A:LYS:H	3	0.11
(1,535)	1:61:A:ASN:HB2	1:66:A:GLN:H	8	0.11
(1,535)	1:61:A:ASN:HB3	1:66:A:GLN:H	8	0.11
(1,532)	1:61:A:ASN:HA	1:64:A:LYS:H	3	0.11
(1,531)	1:61:A:ASN:HA	1:62:A:VAL:HG13	1	0.11
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	4	0.11
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	4	0.11
(1,500)	1:59:A:PHE:HB2	1:60:A:VAL:HB	6	0.11
(1,500)	1:59:A:PHE:HB3	1:60:A:VAL:HB	6	0.11
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	2	0.11
(1,498)	1:59:A:PHE:HA	1:68:A:ALA:H	8	0.11
(1,492)	1:59:A:PHE:H	1:68:A:ALA:H	1	0.11
(1,475)	1:58:A:VAL:H	1:58:A:VAL:HB	19	0.11
(1,463)	1:55:A:THR:H	1:57:A:SER:H	18	0.11
(1,459)	1:54:A:GLN:HB2	1:55:A:THR:H	14	0.11
(1,438)	1:52:A:VAL:HG13	1:53:A:LEU:HD23	11	0.11
(1,428)	1:51:A:GLU:HB2	1:52:A:VAL:H	20	0.11
(1,428)	1:51:A:GLU:HB3	1:52:A:VAL:H	20	0.11
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	2	0.11
(1,425)	1:51:A:GLU:H	1:53:A:LEU:H	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,417)	1:50:A:ASP:H	1:51:A:GLU:H	16	0.11
(1,409)	1:48:A:ASP:HA	1:49:A:LEU:HD13	18	0.11
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	8	0.11
(1,406)	1:48:A:ASP:H	1:50:A:ASP:H	11	0.11
(1,402)	1:47:A:LYS:HG2	1:52:A:VAL:HA	15	0.11
(1,402)	1:47:A:LYS:HG3	1:52:A:VAL:HA	15	0.11
(1,391)	1:46:A:GLU:HA	1:47:A:LYS:H	5	0.11
(1,378)	1:44:A:GLY:H	1:46:A:GLU:H	16	0.11
(1,371)	1:43:A:SER:HA	1:44:A:GLY:H	9	0.11
(1,334)	1:38:A:VAL:HA	1:38:A:VAL:HG13	1	0.11
(1,334)	1:38:A:VAL:HA	1:38:A:VAL:HG13	3	0.11
(1,334)	1:38:A:VAL:HA	1:38:A:VAL:HG13	13	0.11
(1,330)	1:34:A:TYR:H	1:53:A:LEU:H	17	0.11
(1,325)	1:33:A:CYS:HB2	1:34:A:TYR:H	2	0.11
(1,325)	1:33:A:CYS:HB3	1:34:A:TYR:H	2	0.11
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB2	4	0.11
(1,296)	1:30:A:GLU:HG2	1:59:A:PHE:HB3	4	0.11
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB2	4	0.11
(1,296)	1:30:A:GLU:HG3	1:59:A:PHE:HB3	4	0.11
(1,284)	1:30:A:GLU:H	1:58:A:VAL:HB	15	0.11
(1,280)	1:29:A:PHE:HE1	1:68:A:ALA:HB3	14	0.11
(1,275)	1:29:A:PHE:HA	1:58:A:VAL:HG13	19	0.11
(1,244)	1:25:A:ALA:HA	1:27:A:LYS:H	15	0.11
(1,242)	1:24:A:ARG:HA	1:27:A:LYS:H	14	0.11
(1,238)	1:24:A:ARG:H	1:27:A:LYS:HB2	6	0.11
(1,238)	1:24:A:ARG:H	1:27:A:LYS:HB3	6	0.11
(1,232)	1:23:A:LYS:HD2	1:28:A:ARG:HA	12	0.11
(1,232)	1:23:A:LYS:HD3	1:28:A:ARG:HA	12	0.11
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD2	10	0.11
(1,229)	1:23:A:LYS:HB2	1:28:A:ARG:HD3	10	0.11
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD2	10	0.11
(1,229)	1:23:A:LYS:HB3	1:28:A:ARG:HD3	10	0.11
(1,228)	1:23:A:LYS:HB2	1:28:A:ARG:HA	15	0.11
(1,228)	1:23:A:LYS:HB3	1:28:A:ARG:HA	15	0.11
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD2	15	0.11
(1,194)	1:22:A:MET:HA	1:23:A:LYS:HD3	15	0.11
(1,167)	1:21:A:ARG:H	1:96:A:GLN:H	13	0.11
(1,154)	1:20:A:VAL:HG23	1:93:A:GLY:HA2	20	0.11
(1,154)	1:20:A:VAL:HG23	1:93:A:GLY:HA3	20	0.11
(1,149)	1:20:A:VAL:HG23	1:31:A:ILE:H	20	0.11
(1,146)	1:20:A:VAL:HB	1:96:A:GLN:H	10	0.11
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:19:A:VAL:HB	1:96:A:GLN:H	1	0.11
(1,103)	1:18:A:ALA:H	1:33:A:CYS:H	16	0.11
(1,89)	1:15:A:THR:HA	1:15:A:THR:HG23	3	0.11
(1,78)	1:14:A:LEU:HA	1:15:A:THR:H	9	0.11
(1,74)	1:14:A:LEU:H	1:15:A:THR:H	2	0.11
(1,46)	1:12:A:ILE:HG12	1:13:A:ARG:H	1	0.11
(1,46)	1:12:A:ILE:HG13	1:13:A:ARG:H	1	0.11
(1,46)	1:12:A:ILE:HG12	1:13:A:ARG:H	13	0.11
(1,46)	1:12:A:ILE:HG13	1:13:A:ARG:H	13	0.11
(1,35)	1:12:A:ILE:H	1:13:A:ARG:H	8	0.11
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	4	0.11
(1,33)	1:12:A:ILE:H	1:12:A:ILE:HG23	16	0.11
(1,27)	1:11:A:GLN:H	1:13:A:ARG:HB2	19	0.11
(1,27)	1:11:A:GLN:H	1:13:A:ARG:HB3	19	0.11
(1,26)	1:11:A:GLN:H	1:13:A:ARG:H	16	0.11
(1,24)	1:9:A:THR:HB	1:9:A:THR:HG23	4	0.11
(1,24)	1:9:A:THR:HB	1:9:A:THR:HG23	12	0.11
(1,16)	1:7:A:THR:HG23	1:15:A:THR:HA	3	0.11
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG2	3	0.11
(1,15)	1:7:A:THR:HG23	1:8:A:PRO:HG3	3	0.11
(1,5)	1:7:A:THR:H	1:8:A:PRO:HA	12	0.11
(2,67)	1:220:A:ARG:O	1:224:A:GLU:H	15	0.1
(2,61)	1:188:A:LEU:O	1:192:A:LEU:H	10	0.1
(2,60)	1:180:A:LEU:O	1:208:A:LEU:H	14	0.1
(2,55)	1:178:A:PHE:H	1:210:A:ILE:O	14	0.1
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	1	0.1
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	2	0.1
(2,54)	1:177:A:ARG:O	1:237:A:GLU:H	15	0.1
(2,52)	1:176:A:LEU:O	1:212:A:CYS:H	2	0.1
(2,33)	1:109:A:MET:O	1:113:A:ILE:H	20	0.1
(2,17)	1:61:A:ASN:O	1:65:A:GLY:H	2	0.1
(2,3)	1:20:A:VAL:O	1:31:A:ILE:H	6	0.1
(2,2)	1:20:A:VAL:H	1:31:A:ILE:O	5	0.1
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB2	9	0.1
(1,2216)	1:250:A:LYS:HA	1:251:A:PHE:HB3	9	0.1
(1,2211)	1:250:A:LYS:H	1:251:A:PHE:H	17	0.1
(1,2206)	1:249:A:GLU:HA	1:250:A:LYS:H	9	0.1
(1,2185)	1:246:A:GLU:HB3	1:247:A:GLY:H	9	0.1
(1,2185)	1:246:A:GLU:HB2	1:247:A:GLY:H	9	0.1
(1,2165)	1:244:A:VAL:HA	1:245:A:GLU:H	1	0.1
(1,2154)	1:242:A:LYS:HA	1:243:A:ASP:H	19	0.1
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG2	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2143)	1:241:A:LEU:H	1:242:A:LYS:HG3	10	0.1
(1,2123)	1:236:A:LEU:HG	1:237:A:GLU:H	10	0.1
(1,2113)	1:235:A:SER:HA	1:236:A:LEU:HG	10	0.1
(1,2111)	1:235:A:SER:H	1:236:A:LEU:H	12	0.1
(1,2094)	1:231:A:LYS:HG2	1:233:A:LYS:H	15	0.1
(1,2094)	1:231:A:LYS:HG3	1:233:A:LYS:H	15	0.1
(1,2047)	1:228:A:LYS:H	1:232:A:GLY:H	16	0.1
(1,1992)	1:226:A:ILE:H	1:229:A:GLU:H	1	0.1
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG2	15	0.1
(1,1973)	1:225:A:LEU:HB2	1:229:A:GLU:HG3	15	0.1
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG2	15	0.1
(1,1973)	1:225:A:LEU:HB3	1:229:A:GLU:HG3	15	0.1
(1,1927)	1:222:A:ILE:H	1:222:A:ILE:HB	13	0.1
(1,1909)	1:220:A:ARG:HA	1:224:A:GLU:H	5	0.1
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB2	7	0.1
(1,1900)	1:219:A:PHE:H	1:220:A:ARG:HB3	7	0.1
(1,1899)	1:219:A:PHE:H	1:220:A:ARG:HA	2	0.1
(1,1895)	1:216:A:PRO:HG2	1:217:A:GLY:HA2	2	0.1
(1,1895)	1:216:A:PRO:HG2	1:217:A:GLY:HA3	2	0.1
(1,1895)	1:216:A:PRO:HG3	1:217:A:GLY:HA2	2	0.1
(1,1895)	1:216:A:PRO:HG3	1:217:A:GLY:HA3	2	0.1
(1,1893)	1:216:A:PRO:HA	1:219:A:PHE:H	8	0.1
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG13	20	0.1
(1,1876)	1:211:A:VAL:HA	1:211:A:VAL:HG23	20	0.1
(1,1853)	1:207:A:GLN:H	1:208:A:LEU:HA	5	0.1
(1,1853)	1:207:A:GLN:H	1:208:A:LEU:HA	8	0.1
(1,1776)	1:201:A:SER:H	1:211:A:VAL:H	3	0.1
(1,1738)	1:199:A:ILE:H	1:211:A:VAL:H	5	0.1
(1,1701)	1:195:A:LEU:HA	1:195:A:LEU:HD13	11	0.1
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB2	16	0.1
(1,1694)	1:193:A:LYS:HE2	1:202:A:GLU:HB3	16	0.1
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB2	16	0.1
(1,1694)	1:193:A:LYS:HE3	1:202:A:GLU:HB3	16	0.1
(1,1652)	1:190:A:GLU:HA	1:192:A:LEU:H	19	0.1
(1,1625)	1:189:A:LYS:HA	1:192:A:LEU:H	4	0.1
(1,1601)	1:188:A:LEU:HA	1:191:A:LYS:H	1	0.1
(1,1585)	1:187:A:LYS:H	1:188:A:LEU:H	11	0.1
(1,1575)	1:186:A:LYS:HA	1:188:A:LEU:H	7	0.1
(1,1567)	1:186:A:LYS:H	1:187:A:LYS:H	18	0.1
(1,1532)	1:182:A:VAL:H	1:206:A:GLN:HA	12	0.1
(1,1494)	1:178:A:PHE:HA	1:236:A:LEU:HG	16	0.1
(1,1493)	1:178:A:PHE:HA	1:236:A:LEU:HA	11	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1452)	1:176:A:LEU:HA	1:212:A:CYS:H	10	0.1
(1,1416)	1:171:A:ARG:HA	1:172:A:ALA:HB3	17	0.1
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB2	8	0.1
(1,1413)	1:171:A:ARG:H	1:171:A:ARG:HB3	8	0.1
(1,1383)	1:165:A:GLU:HB2	1:167:A:MET:H	17	0.1
(1,1383)	1:165:A:GLU:HB3	1:167:A:MET:H	17	0.1
(1,1351)	1:162:A:GLN:HG2	1:165:A:GLU:H	14	0.1
(1,1351)	1:162:A:GLN:HG3	1:165:A:GLU:H	14	0.1
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB2	7	0.1
(1,1340)	1:161:A:LYS:HE2	1:164:A:LYS:HB3	7	0.1
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB2	7	0.1
(1,1340)	1:161:A:LYS:HE3	1:164:A:LYS:HB3	7	0.1
(1,1312)	1:159:A:VAL:HB	1:161:A:LYS:H	17	0.1
(1,1306)	1:159:A:VAL:H	1:160:A:ILE:HB	7	0.1
(1,1298)	1:158:A:GLU:H	1:160:A:ILE:H	11	0.1
(1,1291)	1:157:A:LEU:H	1:159:A:VAL:H	12	0.1
(1,1283)	1:156:A:ALA:H	1:157:A:LEU:HA	1	0.1
(1,1274)	1:155:A:GLN:HA	1:159:A:VAL:H	12	0.1
(1,1265)	1:154:A:GLN:H	1:156:A:ALA:H	7	0.1
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE2	8	0.1
(1,1260)	1:153:A:LYS:HG2	1:153:A:LYS:HE3	8	0.1
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE2	8	0.1
(1,1260)	1:153:A:LYS:HG3	1:153:A:LYS:HE3	8	0.1
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE2	12	0.1
(1,1258)	1:153:A:LYS:HB2	1:153:A:LYS:HE3	12	0.1
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE2	12	0.1
(1,1258)	1:153:A:LYS:HB3	1:153:A:LYS:HE3	12	0.1
(1,1244)	1:152:A:THR:HB	1:156:A:ALA:H	11	0.1
(1,1242)	1:152:A:THR:HA	1:156:A:ALA:HB3	10	0.1
(1,1227)	1:145:A:SER:HA	1:146:A:VAL:HB	7	0.1
(1,1195)	1:140:A:LYS:H	1:141:A:ASP:H	4	0.1
(1,1192)	1:139:A:MET:H	1:141:A:ASP:H	9	0.1
(1,1189)	1:138:A:ALA:HB3	1:141:A:ASP:H	1	0.1
(1,1182)	1:138:A:ALA:H	1:139:A:MET:HA	19	0.1
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB2	19	0.1
(1,1162)	1:137:A:ARG:H	1:139:A:MET:HB3	19	0.1
(1,1091)	1:132:A:VAL:H	1:135:A:ILE:H	17	0.1
(1,1081)	1:131:A:THR:HA	1:131:A:THR:HG23	3	0.1
(1,1062)	1:126:A:THR:H	1:127:A:LYS:H	13	0.1
(1,1048)	1:122:A:VAL:HB	1:123:A:ASN:H	13	0.1
(1,1029)	1:119:A:ASP:H	1:120:A:LYS:H	3	0.1
(1,981)	1:114:A:ALA:H	1:114:A:ALA:HB3	4	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD2	12	0.1
(1,913)	1:92:A:LYS:HA	1:92:A:LYS:HD3	12	0.1
(1,863)	1:89:A:ILE:H	1:90:A:LEU:HA	17	0.1
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB2	15	0.1
(1,808)	1:86:A:CYS:H	1:88:A:GLN:HB3	15	0.1
(1,800)	1:85:A:ILE:H	1:88:A:GLN:H	16	0.1
(1,794)	1:85:A:ILE:H	1:85:A:ILE:HB	7	0.1
(1,794)	1:85:A:ILE:H	1:85:A:ILE:HB	15	0.1
(1,720)	1:76:A:ALA:H	1:77:A:PHE:HA	5	0.1
(1,701)	1:74:A:ILE:HG23	1:80:A:ASP:HA	6	0.1
(1,688)	1:74:A:ILE:HA	1:80:A:ASP:H	5	0.1
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	15	0.1
(1,678)	1:74:A:ILE:H	1:75:A:SER:HA	19	0.1
(1,648)	1:72:A:ASP:HB2	1:76:A:ALA:HB3	8	0.1
(1,648)	1:72:A:ASP:HB3	1:76:A:ALA:HB3	8	0.1
(1,642)	1:72:A:ASP:H	1:75:A:SER:H	3	0.1
(1,630)	1:71:A:GLU:H	1:73:A:LEU:HG	16	0.1
(1,613)	1:70:A:LYS:H	1:73:A:LEU:H	9	0.1
(1,609)	1:70:A:LYS:H	1:71:A:GLU:H	2	0.1
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG3	5	0.1
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG2	5	0.1
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG3	5	0.1
(1,606)	1:70:A:LYS:H	1:70:A:LYS:HG2	5	0.1
(1,593)	1:69:A:LYS:H	1:71:A:GLU:H	10	0.1
(1,576)	1:67:A:VAL:H	1:68:A:ALA:H	7	0.1
(1,569)	1:66:A:GLN:HA	1:67:A:VAL:HB	9	0.1
(1,511)	1:60:A:VAL:H	1:67:A:VAL:H	12	0.1
(1,494)	1:59:A:PHE:HA	1:61:A:ASN:H	8	0.1
(1,485)	1:58:A:VAL:HG13	1:85:A:ILE:HG23	13	0.1
(1,485)	1:58:A:VAL:HG23	1:85:A:ILE:HG23	13	0.1
(1,475)	1:58:A:VAL:H	1:58:A:VAL:HB	6	0.1
(1,403)	1:47:A:LYS:HG2	1:52:A:VAL:HG23	5	0.1
(1,403)	1:47:A:LYS:HG3	1:52:A:VAL:HG23	5	0.1
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG3	2	0.1
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG2	2	0.1
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG3	2	0.1
(1,390)	1:46:A:GLU:H	1:46:A:GLU:HG2	2	0.1
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG2	10	0.1
(1,366)	1:41:A:TRP:HB2	1:46:A:GLU:HG3	10	0.1
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG2	10	0.1
(1,366)	1:41:A:TRP:HB3	1:46:A:GLU:HG3	10	0.1
(1,362)	1:41:A:TRP:HA	1:46:A:GLU:H	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,334)	1:38:A:VAL:HA	1:38:A:VAL:HG13	5	0.1
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB2	16	0.1
(1,333)	1:34:A:TYR:H	1:54:A:GLN:HB3	16	0.1
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG2	7	0.1
(1,282)	1:30:A:GLU:H	1:30:A:GLU:HG3	7	0.1
(1,252)	1:27:A:LYS:HB2	1:28:A:ARG:H	8	0.1
(1,252)	1:27:A:LYS:HB3	1:28:A:ARG:H	8	0.1
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG2	13	0.1
(1,251)	1:27:A:LYS:HA	1:28:A:ARG:HG3	13	0.1
(1,239)	1:24:A:ARG:HA	1:24:A:ARG:HG2	16	0.1
(1,239)	1:24:A:ARG:HA	1:24:A:ARG:HG3	16	0.1
(1,144)	1:20:A:VAL:HB	1:95:A:VAL:HA	2	0.1
(1,143)	1:20:A:VAL:HB	1:95:A:VAL:H	2	0.1
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG2	3	0.1
(1,126)	1:19:A:VAL:HA	1:96:A:GLN:HG3	3	0.1
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB2	6	0.1
(1,120)	1:19:A:VAL:H	1:96:A:GLN:HB3	6	0.1
(1,116)	1:19:A:VAL:H	1:19:A:VAL:HG23	8	0.1
(1,91)	1:15:A:THR:HA	1:17:A:VAL:H	6	0.1
(1,52)	1:12:A:ILE:HG13	1:12:A:ILE:HG23	19	0.1
(1,52)	1:12:A:ILE:HG12	1:12:A:ILE:HG23	19	0.1
(1,46)	1:12:A:ILE:HG12	1:13:A:ARG:H	18	0.1
(1,46)	1:12:A:ILE:HG13	1:13:A:ARG:H	18	0.1
(1,27)	1:11:A:GLN:H	1:13:A:ARG:HB2	13	0.1
(1,27)	1:11:A:GLN:H	1:13:A:ARG:HB3	13	0.1
(1,9)	1:7:A:THR:HA	1:15:A:THR:HA	8	0.1

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found