



Full wwPDB NMR Structure Validation Report ⓘ

Mar 4, 2026 – 11:01 PM UTC

PDB ID : 5LSD / pdb_00005lsd
BMRB ID : 34037
Title : Recombinant mouse Nerve Growth Factor
Authors : Paoletti, F.; de Chiara, C.; Kelly, G.; Lamba, D.; Cattaneo, A.; Pastore, A.
Deposited on : 2016-08-25

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

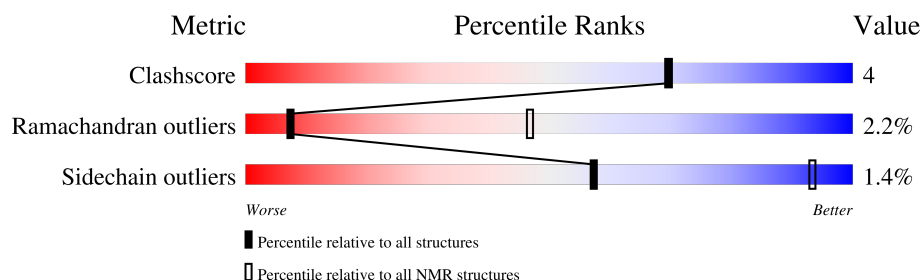
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 44%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	118	
1	B	118	

2 Ensemble composition and analysis

This entry contains 20 models. Model 12 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:12-A:114, B:12-B:114 (206)	1.31	12

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

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

The models can be grouped into 3 clusters and 7 single-model clusters were found.

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 3672 atoms, of which 1812 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Beta-nerve growth factor.

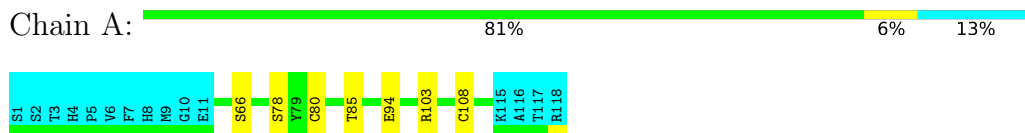
Mol	Chain	Residues	Atoms							Trace
1	A	118	Total	C	H	N	O	S	0	
			1836	581	906	165	177	7		
1	B	118	Total	C	H	N	O	S	0	
			1836	581	906	165	177	7		

4 Residue-property plots

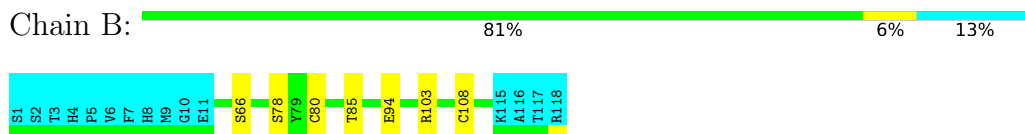
4.1 Average score per residue in the NMR ensemble

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: Beta-nerve growth factor



- Molecule 1: Beta-nerve growth factor

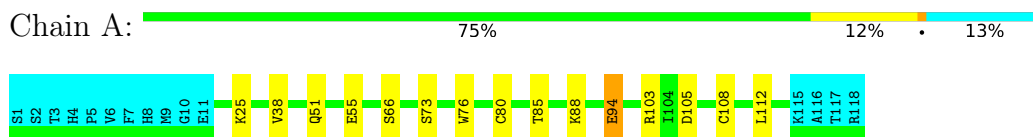


4.2 Scores per residue for each member of the ensemble

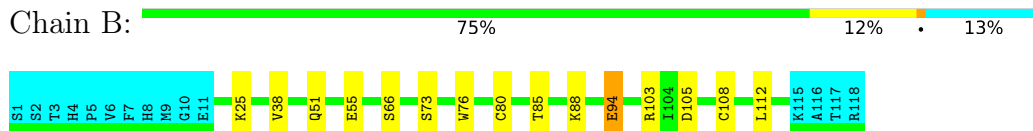
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Beta-nerve growth factor

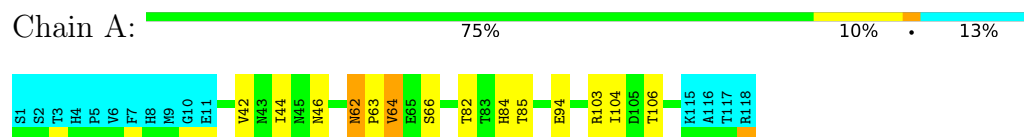


- Molecule 1: Beta-nerve growth factor

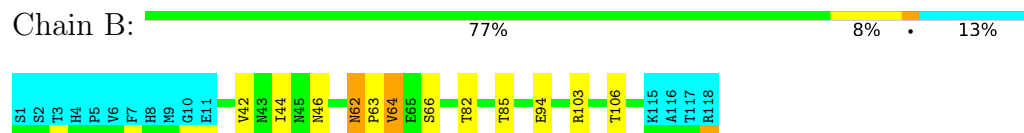


4.2.2 Score per residue for model 2

- Molecule 1: Beta-nerve growth factor

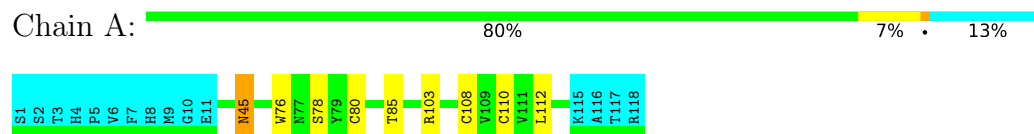


- Molecule 1: Beta-nerve growth factor

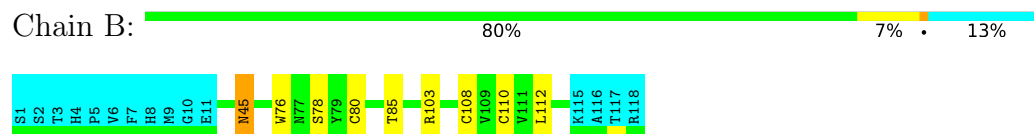


4.2.3 Score per residue for model 3

- Molecule 1: Beta-nerve growth factor

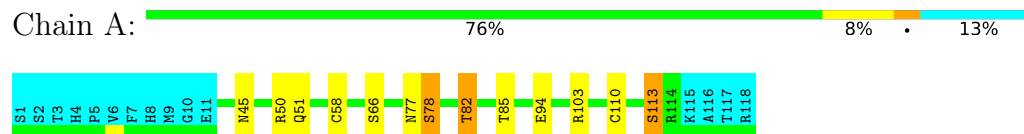


- Molecule 1: Beta-nerve growth factor

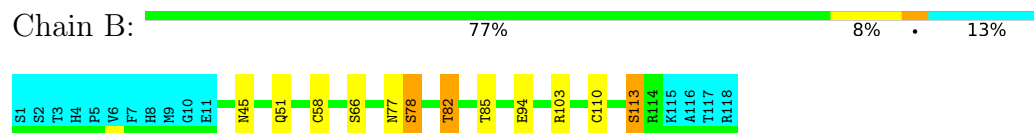


4.2.4 Score per residue for model 4

- Molecule 1: Beta-nerve growth factor

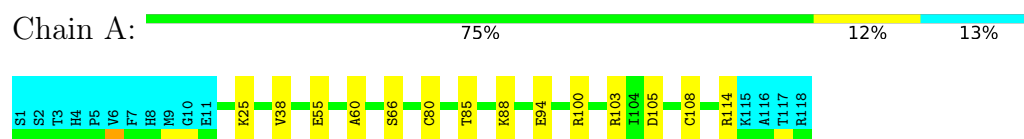


- Molecule 1: Beta-nerve growth factor

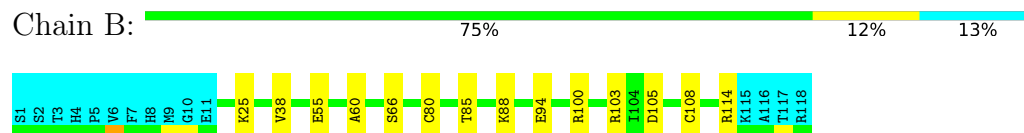


4.2.5 Score per residue for model 5

- Molecule 1: Beta-nerve growth factor

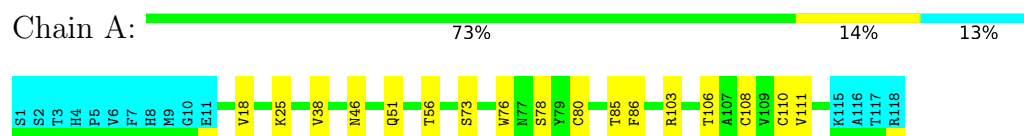


- Molecule 1: Beta-nerve growth factor

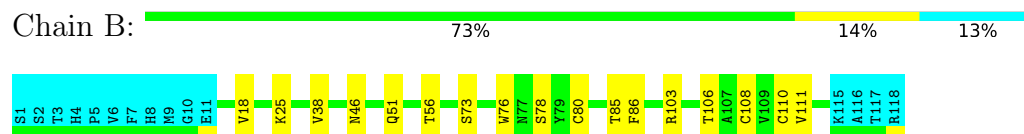


4.2.6 Score per residue for model 6

- Molecule 1: Beta-nerve growth factor

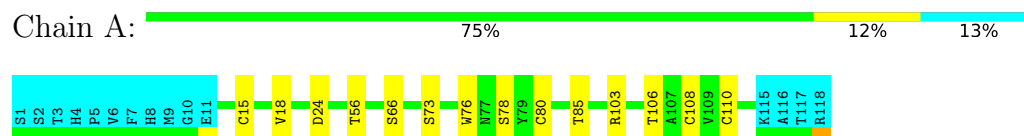


- Molecule 1: Beta-nerve growth factor

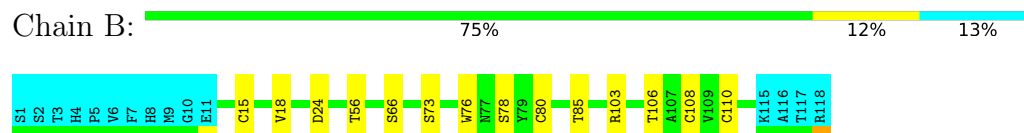


4.2.7 Score per residue for model 7

- Molecule 1: Beta-nerve growth factor

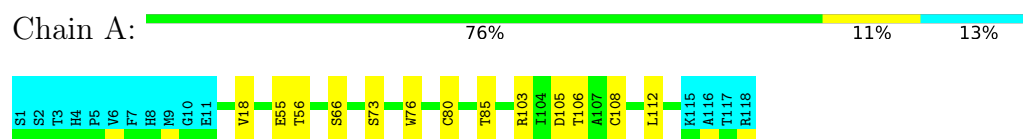


- Molecule 1: Beta-nerve growth factor

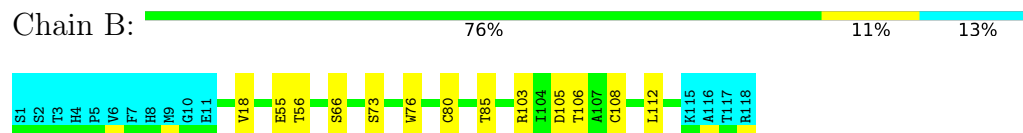


4.2.8 Score per residue for model 8

- Molecule 1: Beta-nerve growth factor

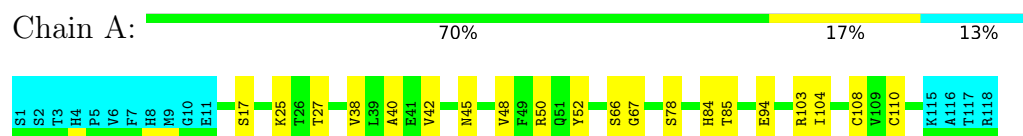


- Molecule 1: Beta-nerve growth factor

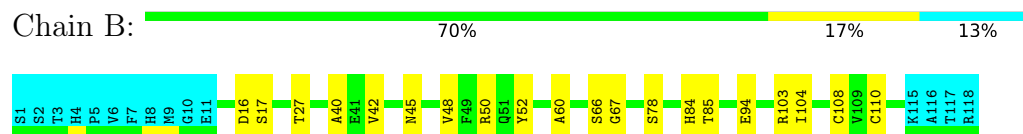


4.2.9 Score per residue for model 9

- Molecule 1: Beta-nerve growth factor

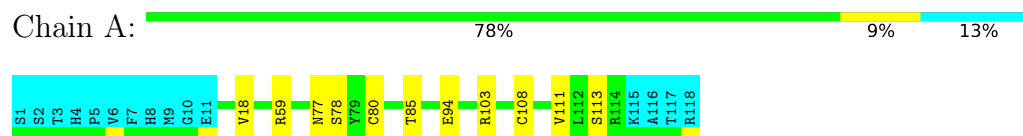


- Molecule 1: Beta-nerve growth factor

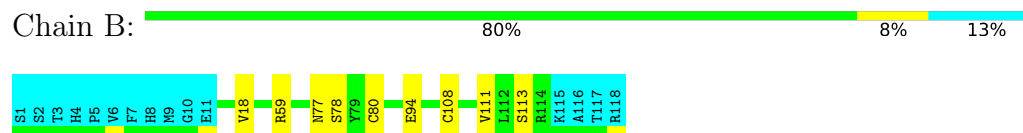


4.2.10 Score per residue for model 10

- Molecule 1: Beta-nerve growth factor

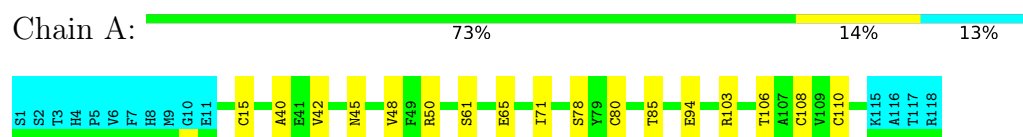


- Molecule 1: Beta-nerve growth factor

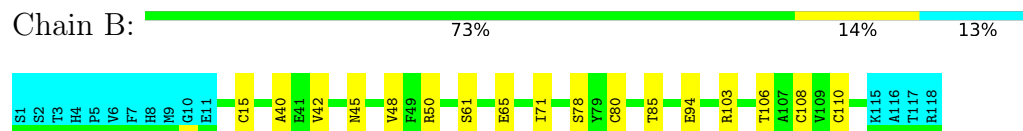


4.2.11 Score per residue for model 11

- Molecule 1: Beta-nerve growth factor

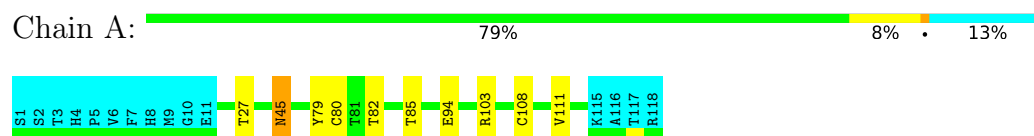


- Molecule 1: Beta-nerve growth factor

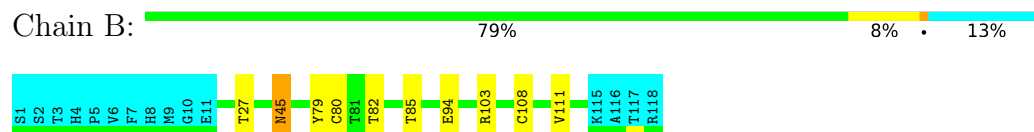


4.2.12 Score per residue for model 12 (medoid)

- Molecule 1: Beta-nerve growth factor

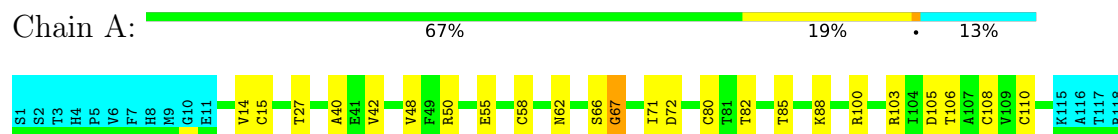


- Molecule 1: Beta-nerve growth factor

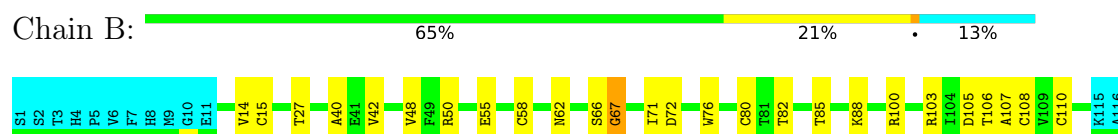


4.2.13 Score per residue for model 13

- Molecule 1: Beta-nerve growth factor



- Molecule 1: Beta-nerve growth factor



T117
R116

4.2.14 Score per residue for model 14

- Molecule 1: Beta-nerve growth factor

Chain A:  84% 13%

S1 S2 T3 H4 P5 V6 F7 H8 M9 G10 E11 C80 T85 R103 C108 K115 A116 T117 R113

- Molecule 1: Beta-nerve growth factor

Chain B:  85% 13%

S1 S2 T3 H4 P5 V6 F7 H8 M9 G10 E11 T85 E94 R103 K115 A116 T117 R118

4.2.15 Score per residue for model 15

- Molecule 1: Beta-nerve growth factor

Chain A:  69% 17% 13%

S1 S2 T3 H4 P5 V6 F7 H8 M9 G10 E11 K25 V38 L39 A40 E41 V42 V48 Q51 Y52 E55 S66 N77 S78 Y79 C80 T85 T92 D93 E94 K95 Q96 R103 I104 D105 C108 V109 C110 S113 R114 K115 A116 T117 R118

- Molecule 1: Beta-nerve growth factor

Chain B:  69% 17% 13%

S1 S2 T3 H4 P5 V6 F7 H8 M9 G10 E11 K25 V38 L39 A40 E41 V42 V48 Q51 Y52 E55 S66 N77 S78 Y79 C80 T85 T92 D93 E94 K95 Q96 R103 I104 D105 C108 V109 C110 S113 R114 K115 A116 T117 R118

4.2.16 Score per residue for model 16

- Molecule 1: Beta-nerve growth factor

Chain A:  79% 8% 13%

S1 S2 T3 H4 P5 V6 F7 H8 M9 G10 E11 V18 M45 Q51 T56 S66 S78 T85 R103 C110 S113 R114 K115 A116 T117 R118

- Molecule 1: Beta-nerve growth factor

Chain B:  79% 8% 13%



4.2.17 Score per residue for model 17

- Molecule 1: Beta-nerve growth factor

Chain A:  77% 10% 13%



- Molecule 1: Beta-nerve growth factor

Chain B:  77% 10% 13%



4.2.18 Score per residue for model 18

- Molecule 1: Beta-nerve growth factor

Chain A:  77% 10% 13%



- Molecule 1: Beta-nerve growth factor

Chain B:  77% 10% 13%



4.2.19 Score per residue for model 19

- Molecule 1: Beta-nerve growth factor

Chain A:  79% 8% 13%



- Molecule 1: Beta-nerve growth factor

Chain B:  79% 8% 13%



4.2.20 Score per residue for model 20

- Molecule 1: Beta-nerve growth factor

Chain A:  74% 13% • 13%



- Molecule 1: Beta-nerve growth factor

Chain B:  76% 10% • 13%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
ARIA	refinement	2.3.2
ARIA	structure calculation	2.3.2

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	1384
Number of shifts mapped to atoms	1384
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	44%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.39±0.01	0±0/829 (0.0± 0.0%)	0.62±0.02	0±0/1126 (0.0± 0.0%)
1	B	0.38±0.01	0±0/829 (0.0± 0.0%)	0.62±0.02	0±0/1126 (0.0± 0.0%)
All	All	0.38	0/33160 (0.0%)	0.62	4/45040 (0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	62	ASN	CA-C-N	5.07	126.17	119.84	2	1
1	A	62	ASN	C-N-CA	5.07	126.17	119.84	2	1
1	B	62	ASN	CA-C-N	5.04	126.14	119.84	2	1
1	B	62	ASN	C-N-CA	5.04	126.14	119.84	2	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	812	790	788	6±3
1	B	812	790	788	6±3
All	All	32480	31600	31520	233

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 4.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:CYS:HB3	1:A:108:CYS:SG	0.72	2.24	12	15
1:B:80:CYS:HB3	1:B:108:CYS:SG	0.71	2.24	12	14
1:A:78:SER:HB3	1:A:110:CYS:SG	0.69	2.27	4	8
1:B:78:SER:HB3	1:B:110:CYS:SG	0.69	2.27	4	8
1:A:55:GLU:HA	1:A:105:ASP:O	0.66	1.91	8	5
1:B:55:GLU:HA	1:B:105:ASP:O	0.65	1.91	8	5
1:A:25:LYS:O	1:A:38:VAL:HB	0.63	1.93	15	6
1:B:25:LYS:O	1:B:38:VAL:HB	0.62	1.93	15	5
1:A:85:THR:O	1:A:103:ARG:HA	0.61	1.96	11	20
1:B:85:THR:O	1:B:103:ARG:HA	0.60	1.97	20	19
1:A:73:SER:HA	1:A:76:TRP:O	0.59	1.98	7	4
1:B:73:SER:HA	1:B:76:TRP:O	0.59	1.98	7	4
1:B:62:ASN:HA	1:B:67:GLY:O	0.58	1.99	13	1
1:A:62:ASN:HA	1:A:67:GLY:O	0.57	1.99	13	1
1:A:14:VAL:HG23	1:A:110:CYS:SG	0.57	2.40	13	1
1:A:86:PHE:CE2	1:A:103:ARG:HB3	0.56	2.36	19	2
1:B:14:VAL:HG23	1:B:110:CYS:SG	0.56	2.40	13	1
1:B:86:PHE:CE2	1:B:103:ARG:HB3	0.56	2.36	19	2
1:B:15:CYS:HB2	1:B:110:CYS:SG	0.53	2.44	11	2
1:B:58:CYS:SG	1:B:82:THR:HG23	0.53	2.43	13	2
1:A:71:ILE:HG22	1:A:72:ASP:H	0.53	1.64	13	1
1:A:58:CYS:SG	1:A:82:THR:HG23	0.53	2.44	13	2
1:A:15:CYS:HB2	1:A:110:CYS:SG	0.53	2.43	11	2
1:A:103:ARG:O	1:A:103:ARG:HD2	0.53	2.03	20	1
1:B:103:ARG:HD2	1:B:103:ARG:O	0.52	2.05	20	1
1:B:61:SER:HA	1:B:80:CYS:SG	0.52	2.45	11	1
1:A:61:SER:HA	1:A:80:CYS:SG	0.51	2.45	11	1
1:B:56:THR:HB	1:B:106:THR:C	0.51	2.31	7	1
1:A:56:THR:HB	1:A:106:THR:C	0.51	2.31	7	1
1:B:42:VAL:O	1:B:48:VAL:HA	0.51	2.05	13	5
1:A:42:VAL:O	1:A:48:VAL:HA	0.50	2.07	13	5
1:A:78:SER:HA	1:A:111:VAL:O	0.50	2.06	6	2
1:B:71:ILE:HG22	1:B:72:ASP:H	0.49	1.65	13	1
1:A:12:PHE:HB2	1:B:112:LEU:O	0.49	2.07	20	1
1:B:78:SER:HA	1:B:111:VAL:O	0.49	2.07	6	2
1:A:71:ILE:HG22	1:A:72:ASP:N	0.48	2.24	13	1
1:B:71:ILE:HG22	1:B:72:ASP:N	0.47	2.24	13	1
1:B:15:CYS:SG	1:B:110:CYS:HB2	0.47	2.49	7	1
1:A:77:ASN:HB3	1:A:113:SER:O	0.47	2.10	4	2
1:A:15:CYS:SG	1:A:110:CYS:HB2	0.47	2.49	7	1
1:B:88:LYS:HA	1:B:100:ARG:O	0.47	2.10	5	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:GLN:HB2	1:B:88:LYS:CD	0.47	2.40	1	1
1:B:77:ASN:HB3	1:B:113:SER:O	0.47	2.09	4	2
1:A:18:VAL:O	1:A:56:THR:HA	0.47	2.10	8	4
1:B:18:VAL:O	1:B:56:THR:HA	0.46	2.11	8	4
1:B:76:TRP:CE3	1:B:112:LEU:HB3	0.46	2.46	20	5
1:A:56:THR:HB	1:A:106:THR:O	0.46	2.11	8	2
1:B:56:THR:HB	1:B:106:THR:O	0.46	2.11	8	2
1:A:88:LYS:HA	1:A:100:ARG:O	0.46	2.10	5	2
1:A:76:TRP:CE3	1:A:112:LEU:HB3	0.45	2.46	20	5
1:A:88:LYS:CD	1:B:51:GLN:HB2	0.45	2.41	1	1
1:A:45:ASN:N	1:A:45:ASN:HD22	0.45	2.10	16	1
1:A:84:HIS:HA	1:A:104:ILE:O	0.45	2.12	20	3
1:B:40:ALA:O	1:B:50:ARG:HA	0.45	2.12	13	3
1:A:40:ALA:O	1:A:50:ARG:HA	0.44	2.12	13	3
1:B:45:ASN:HD22	1:B:45:ASN:N	0.44	2.10	16	1
1:B:84:HIS:HA	1:B:104:ILE:O	0.43	2.12	20	2
1:A:77:ASN:OD1	1:A:113:SER:HB3	0.43	2.13	10	1
1:A:79:TYR:O	1:A:111:VAL:HG22	0.43	2.12	17	2
1:B:62:ASN:OD1	1:B:66:SER:HB2	0.43	2.13	2	1
1:B:75:HIS:O	1:B:114:ARG:HB3	0.43	2.12	17	1
1:B:79:TYR:O	1:B:111:VAL:HG22	0.43	2.12	17	2
1:B:71:ILE:HG21	1:B:78:SER:OG	0.42	2.14	11	1
1:A:71:ILE:HG21	1:A:78:SER:OG	0.42	2.14	11	1
1:B:92:THR:HA	1:B:96:GLN:O	0.42	2.15	15	1
1:B:39:LEU:C	1:B:41:GLU:H	0.42	2.23	15	1
1:B:77:ASN:OD1	1:B:113:SER:HB3	0.42	2.14	10	1
1:B:51:GLN:O	1:B:52:TYR:HB2	0.42	2.15	15	1
1:A:62:ASN:OD1	1:A:66:SER:HB2	0.42	2.14	2	1
1:A:51:GLN:O	1:A:52:TYR:HB2	0.42	2.14	15	1
1:A:39:LEU:C	1:A:41:GLU:H	0.41	2.24	15	1
1:A:75:HIS:O	1:A:114:ARG:HB3	0.41	2.15	17	1
1:A:17:SER:OG	1:A:108:CYS:HB3	0.41	2.16	9	1
1:A:80:CYS:HA	1:A:109:VAL:O	0.41	2.15	18	2
1:B:80:CYS:HA	1:B:109:VAL:O	0.41	2.16	18	2
1:A:18:VAL:HB	1:A:59:ARG:NE	0.41	2.31	10	2
1:A:92:THR:HA	1:A:96:GLN:O	0.41	2.15	15	1
1:B:17:SER:OG	1:B:108:CYS:HB3	0.40	2.16	9	1
1:B:18:VAL:HB	1:B:59:ARG:NE	0.40	2.31	20	2
1:B:16:ASP:HB3	1:B:60:ALA:HB3	0.40	1.93	9	1
1:B:72:ASP:HA	1:B:76:TRP:O	0.40	2.16	13	1
1:B:82:THR:HA	1:B:107:ALA:O	0.40	2.17	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:GLY:HA2	1:A:52:TYR:CD1	0.40	2.52	20	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	103/118 (87%)	94±2 (92±2%)	6±2 (6±2%)	2±1 (2±1%)	8	48
1	B	103/118 (87%)	94±3 (92±2%)	6±2 (6±2%)	2±1 (2±1%)	7	47
All	All	4120/4720 (87%)	3777 (92%)	254 (6%)	89 (2%)	7	47

All 28 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	B	94	GLU	14
1	A	94	GLU	13
1	A	66	SER	10
1	B	66	SER	10
1	A	45	ASN	4
1	B	45	ASN	4
1	A	113	SER	4
1	B	113	SER	4
1	A	46	ASN	2
1	B	46	ASN	2
1	A	52	TYR	2
1	A	67	GLY	2
1	B	52	TYR	2
1	B	67	GLY	2
1	A	42	VAL	1
1	A	44	ILE	1
1	A	63	PRO	1
1	A	64	VAL	1
1	B	42	VAL	1
1	B	44	ILE	1

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Mol	Chain	Res	Type	Models (Total)
1	B	63	PRO	1
1	B	64	VAL	1
1	A	60	ALA	1
1	B	60	ALA	1
1	A	24	ASP	1
1	B	24	ASP	1
1	A	65	GLU	1
1	B	65	GLU	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	92/105 (88%)	91±1 (99±1%)	1±1 (1±1%)	55	93
1	B	92/105 (88%)	91±1 (99±1%)	1±1 (1±1%)	57	93
All	All	3680/4200 (88%)	3627 (99%)	53 (1%)	57	93

All 25 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	45	ASN	5
1	B	45	ASN	5
1	A	27	THR	5
1	B	27	THR	5
1	A	82	THR	3
1	A	106	THR	3
1	B	82	THR	3
1	B	106	THR	3
1	A	51	GLN	3
1	B	51	GLN	3
1	A	94	GLU	1
1	B	94	GLU	1
1	A	64	VAL	1
1	B	64	VAL	1
1	A	50	ARG	1
1	A	78	SER	1

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Mol	Chain	Res	Type	Models (Total)
1	B	78	SER	1
1	A	69	ARG	1
1	B	69	ARG	1
1	A	104	ILE	1
1	B	104	ILE	1
1	A	65	GLU	1
1	A	103	ARG	1
1	B	65	GLU	1
1	B	103	ARG	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 44% for the well-defined parts and 44% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *NGF_chemShift_AB.str*

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	1384
Number of shifts mapped to atoms	1384
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	117	-0.14 ± 0.13	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	112	-0.07 ± 0.14	None needed (< 0.5 ppm)
$^{13}\text{C}'$	111	0.10 ± 0.21	None needed (< 0.5 ppm)
^{15}N	113	0.62 ± 0.70	None needed (imprecise)

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 44%, i.e. 1224 atoms were assigned a chemical shift out of a possible 2754. 0 out of 30 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	510/1034 (49%)	208/418 (50%)	202/412 (49%)	100/204 (49%)
Sidechain	626/1460 (43%)	418/946 (44%)	201/450 (45%)	7/64 (11%)

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	Total	¹H	¹³C	¹⁵N
Aromatic	88/260 (34%)	44/128 (34%)	41/118 (35%)	3/14 (21%)
Overall	1224/2754 (44%)	670/1492 (45%)	444/980 (45%)	110/282 (39%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 44%, i.e. 1383 atoms were assigned a chemical shift out of a possible 3150. 0 out of 32 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	577/1182 (49%)	236/478 (49%)	228/472 (48%)	113/232 (49%)
Sidechain	704/1656 (43%)	469/1074 (44%)	228/510 (45%)	7/72 (10%)
Aromatic	102/312 (33%)	51/154 (33%)	48/136 (35%)	3/22 (14%)
Overall	1383/3150 (44%)	756/1706 (44%)	504/1118 (45%)	123/326 (38%)

7.1.4 Statistically unusual chemical shifts ⓘ

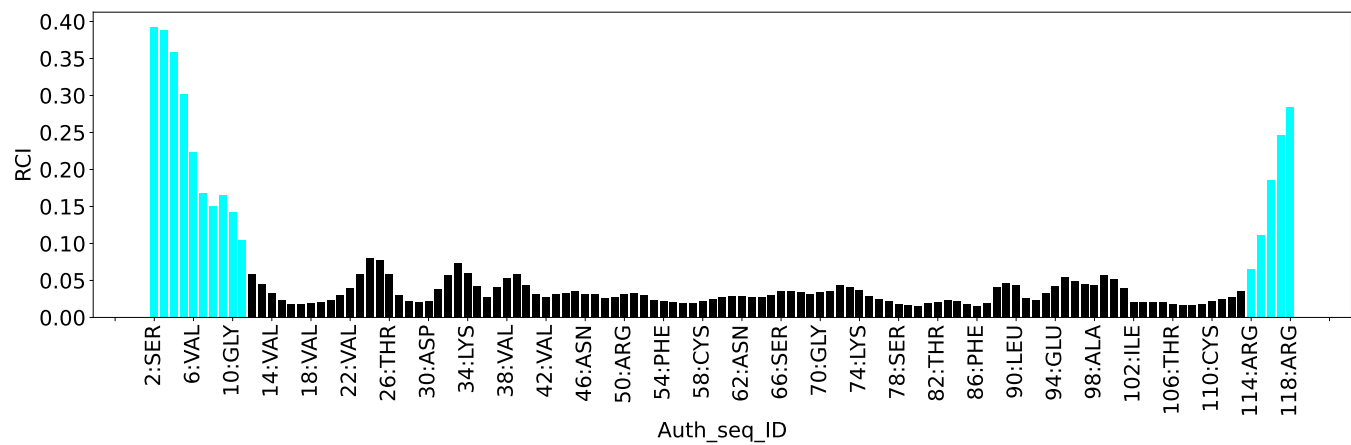
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	85	THR	HG1	6.54	0.08 – 2.19	25.6

7.1.5 Random Coil Index (RCI) plots ⓘ

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	4712
Intra-residue ($ i-j =0$)	2692
Sequential ($ i-j =1$)	850
Medium range ($ i-j >1$ and $ i-j <5$)	278
Long range ($ i-j \geq 5$)	826
Inter-chain	66
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	20.0
Number of long range restraints per residue ¹	3.5

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	75.4	0.2
0.2-0.5 (Medium)	140.7	0.5
>0.5 (Large)	159.7	7.27

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 ⓘ

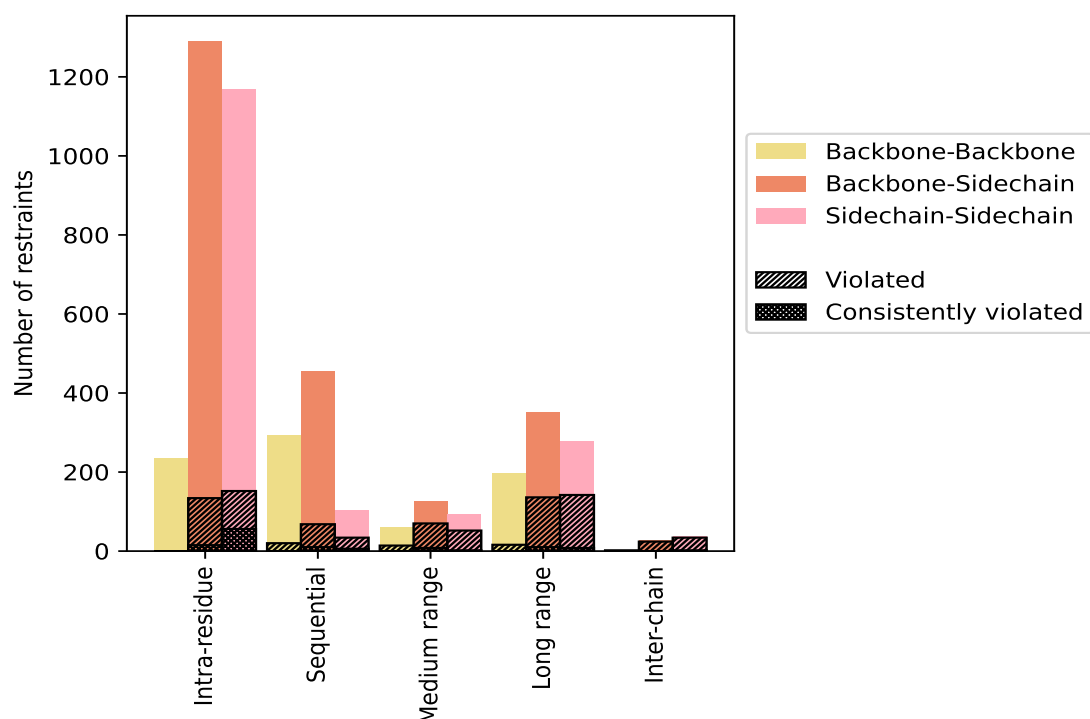
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	2692	57.1	286	10.6	6.1	71	2.6	1.5
Backbone-Backbone	234	5.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	1290	27.4	134	10.4	2.8	15	1.2	0.3
Sidechain-Sidechain	1168	24.8	152	13.0	3.2	56	4.8	1.2
Sequential ($i-j =1$)	850	18.0	122	14.4	2.6	16	1.9	0.3
Backbone-Backbone	292	6.2	20	6.8	0.4	0	0.0	0.0
Backbone-Sidechain	454	9.6	68	15.0	1.4	10	2.2	0.2
Sidechain-Sidechain	104	2.2	34	32.7	0.7	6	5.8	0.1
Medium range ($i-j >1$ & $i-j <5$)	278	5.9	136	48.9	2.9	10	3.6	0.2
Backbone-Backbone	60	1.3	14	23.3	0.3	0	0.0	0.0
Backbone-Sidechain	126	2.7	70	55.6	1.5	8	6.3	0.2
Sidechain-Sidechain	92	2.0	52	56.5	1.1	2	2.2	0.0
Long range ($i-j \geq 5$)	826	17.5	294	35.6	6.2	18	2.2	0.4
Backbone-Backbone	196	4.2	16	8.2	0.3	0	0.0	0.0
Backbone-Sidechain	352	7.5	136	38.6	2.9	10	2.8	0.2
Sidechain-Sidechain	278	5.9	142	51.1	3.0	8	2.9	0.2
Inter-chain	66	1.4	60	90.9	1.3	2	3.0	0.0
Backbone-Backbone	2	0.0	2	100.0	0.0	0	0.0	0.0
Backbone-Sidechain	28	0.6	24	85.7	0.5	0	0.0	0.0
Sidechain-Sidechain	36	0.8	34	94.4	0.7	2	5.6	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	4712	100.0	898	19.1	19.1	117	2.5	2.5
Backbone-Backbone	784	16.6	52	6.6	1.1	0	0.0	0.0
Backbone-Sidechain	2250	47.8	432	19.2	9.2	43	1.9	0.9
Sidechain-Sidechain	1678	35.6	414	24.7	8.8	74	4.4	1.6

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	149	54	38	97	40	378	0.62	6.67	0.7	0.41
2	148	44	66	156	24	438	0.83	6.34	1.07	0.45
3	134	48	42	110	36	370	0.66	4.39	0.61	0.46
4	144	49	36	100	28	357	0.59	2.85	0.55	0.4
5	136	54	58	114	27	389	0.6	4.74	0.6	0.38
6	172	52	50	97	46	417	0.78	7.27	0.87	0.54
7	143	48	38	78	30	337	0.64	4.25	0.65	0.42
8	148	44	50	82	28	352	0.64	5.75	0.66	0.42
9	135	52	36	110	31	364	0.59	3.84	0.57	0.38
10	142	54	36	90	36	358	0.6	3.55	0.49	0.48

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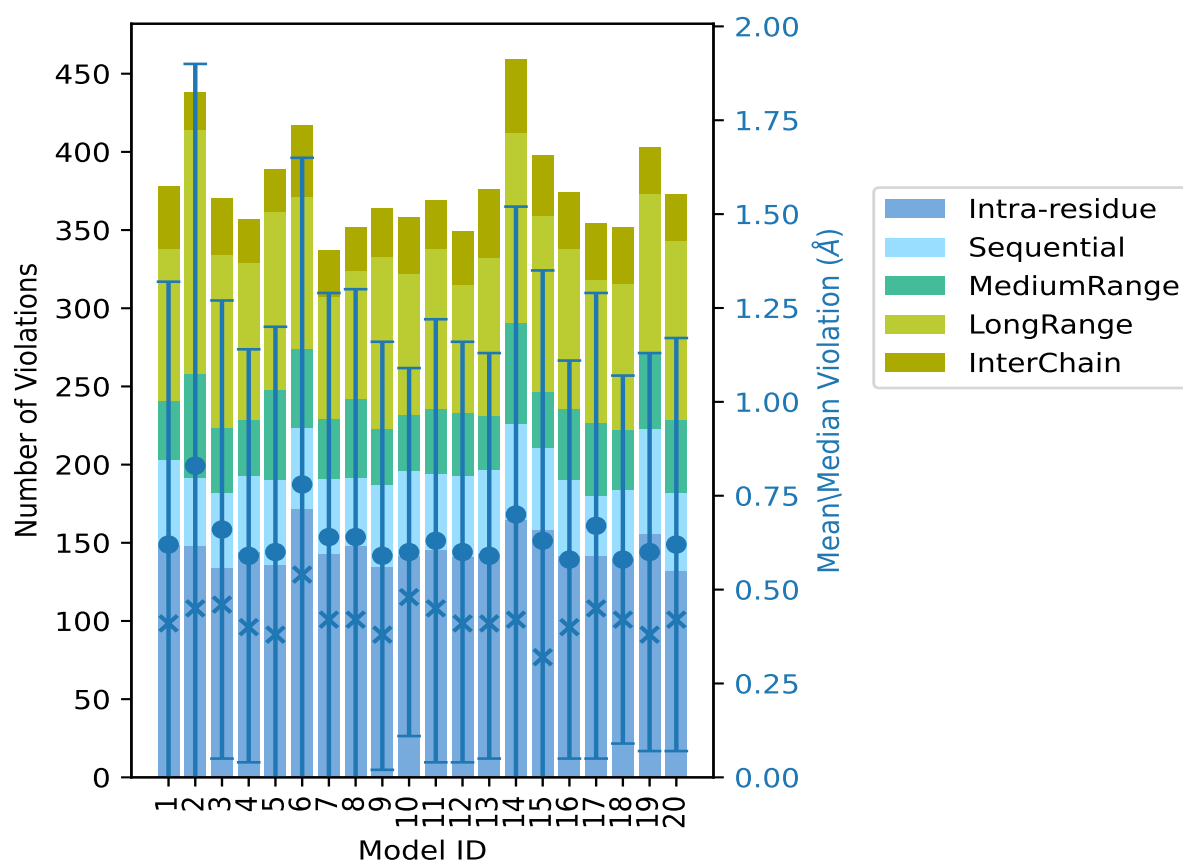
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	146	48	42	102	31	369	0.63	4.41	0.59	0.45
12	141	52	40	82	34	349	0.6	3.19	0.56	0.41
13	143	54	34	101	44	376	0.59	2.83	0.54	0.41
14	165	61	65	121	47	459	0.7	5.28	0.82	0.42
15	158	53	36	112	39	398	0.63	3.76	0.72	0.32
16	142	48	46	102	36	374	0.58	3.55	0.53	0.4
17	142	38	47	91	36	354	0.67	2.79	0.62	0.45
18	140	44	38	94	36	352	0.58	3.04	0.49	0.42
19	156	67	48	102	30	403	0.6	3.33	0.53	0.38
20	132	50	47	114	30	373	0.62	2.97	0.55	0.42

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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

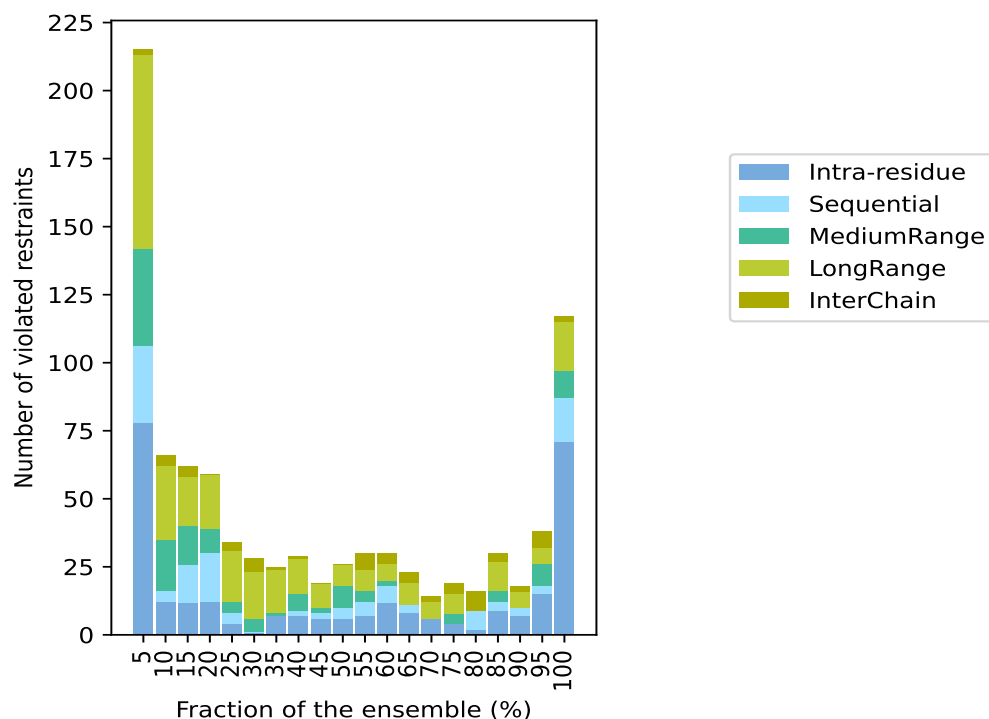
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 3814(IR:2406, SQ:728, MR:142, LR:532, IC:6) restraints are 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	%
78	28	36	71	2	215	1	5.0
12	4	19	27	4	66	2	10.0
12	14	14	18	4	62	3	15.0
12	18	9	20	0	59	4	20.0
4	4	4	19	3	34	5	25.0
1	0	5	17	5	28	6	30.0
7	0	1	16	1	25	7	35.0
7	2	6	13	1	29	8	40.0
6	2	2	9	0	19	9	45.0
6	4	8	8	0	26	10	50.0
7	5	4	8	6	30	11	55.0
12	6	2	6	4	30	12	60.0
8	3	0	8	4	23	13	65.0
6	0	0	6	2	14	14	70.0
4	0	4	7	4	19	15	75.0
2	7	0	0	7	16	16	80.0
9	3	4	11	3	30	17	85.0
7	3	0	6	2	18	18	90.0
15	3	8	6	6	38	19	95.0
71	16	10	18	2	117	20	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶ Number of models with violations

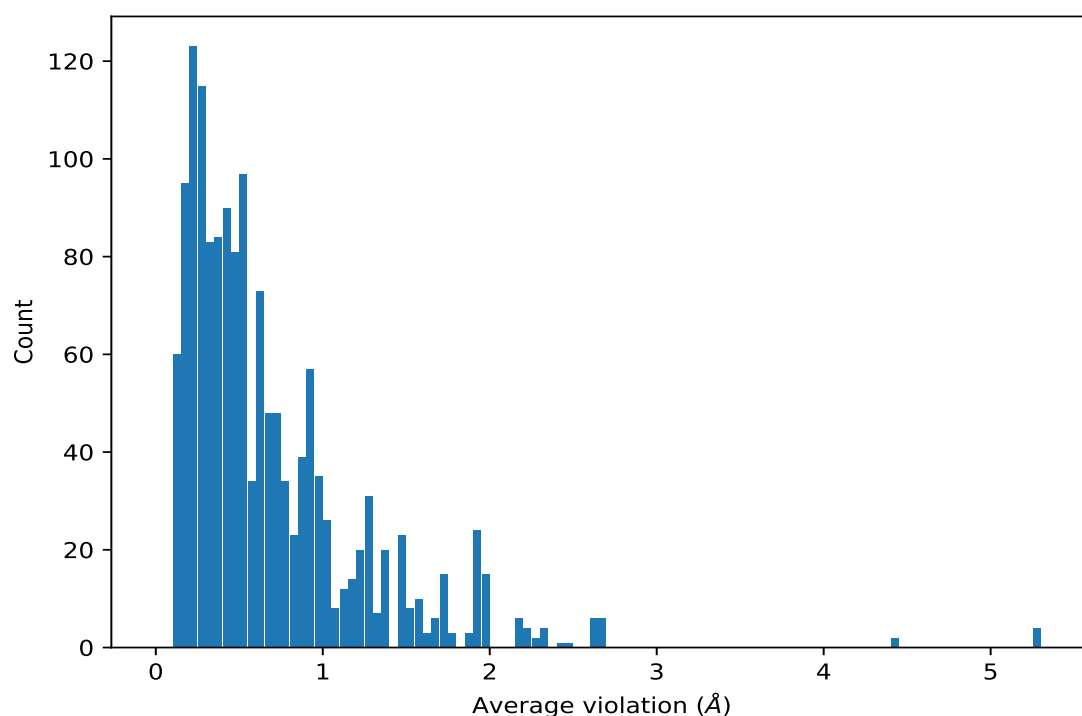
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG21	20	2.17	0.1	2.17
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	20	2.17	0.1	2.17
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG23	20	2.17	0.1	2.17
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG21	20	2.17	0.1	2.17
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	20	2.17	0.1	2.17
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG23	20	2.17	0.1	2.17
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG23	20	1.91	0.2	1.88
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG22	20	1.91	0.2	1.88
(1,1205)	1:112:A:LEU:HD12	1:111:A:VAL:HG21	20	1.91	0.2	1.88
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG23	20	1.91	0.2	1.88
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG21	20	1.91	0.2	1.88
(1,1205)	1:112:A:LEU:HD12	1:111:A:VAL:HG22	20	1.91	0.2	1.88
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG21	20	1.91	0.2	1.88
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG22	20	1.91	0.2	1.88
(1,1205)	1:112:A:LEU:HD12	1:111:A:VAL:HG23	20	1.91	0.2	1.88
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG23	20	1.9	0.2	1.88

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG22	20	1.9	0.2	1.88
(1,1206)	1:112:B:LEU:HD12	1:111:B:VAL:HG21	20	1.9	0.2	1.88
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG23	20	1.9	0.2	1.88
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG21	20	1.9	0.2	1.88
(1,1206)	1:112:B:LEU:HD12	1:111:B:VAL:HG22	20	1.9	0.2	1.88
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG21	20	1.9	0.2	1.88
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG22	20	1.9	0.2	1.88
(1,1206)	1:112:B:LEU:HD12	1:111:B:VAL:HG23	20	1.9	0.2	1.88
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	20	1.49	0.18	1.51
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	20	1.49	0.18	1.51
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	20	1.38	0.69	1.4
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	20	1.38	0.69	1.4
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG21	20	1.38	0.69	1.4
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	20	1.38	0.69	1.4
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	20	1.38	0.69	1.4
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG21	20	1.38	0.69	1.4
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	20	1.27	0.78	1.0
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	20	1.27	0.78	1.0
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	20	1.15	0.18	1.12
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	20	1.15	0.18	1.12
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	20	1.13	0.68	1.06
(1,1204)	1:112:B:LEU:HD13	1:71:B:ILE:HA	20	1.13	0.68	1.06
(1,1204)	1:112:B:LEU:HD11	1:71:B:ILE:HA	20	1.13	0.68	1.06
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	20	1.13	0.68	1.06
(1,1203)	1:112:A:LEU:HD13	1:71:A:ILE:HA	20	1.13	0.68	1.06
(1,1203)	1:112:A:LEU:HD11	1:71:A:ILE:HA	20	1.13	0.68	1.06
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	20	1.08	0.07	1.09
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	20	1.08	0.07	1.09
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	20	1.04	0.02	1.04
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	20	1.04	0.02	1.04
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG22	20	1.04	0.02	1.04
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	20	1.03	0.02	1.04
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	20	1.03	0.02	1.04
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG22	20	1.03	0.02	1.04
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG22	20	0.99	0.31	0.92
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG23	20	0.99	0.31	0.92
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	20	0.99	0.31	0.92
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG22	20	0.99	0.31	0.92
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG23	20	0.99	0.31	0.92
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	20	0.99	0.31	0.92
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	20	0.99	0.2	1.02
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD21	20	0.99	0.2	1.02

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD22	20	0.99	0.2	1.02
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	20	0.99	0.2	1.02
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD21	20	0.99	0.2	1.02
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD22	20	0.99	0.2	1.02
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	20	0.94	0.19	0.92
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	20	0.94	0.19	0.92
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD21	20	0.92	0.29	0.9
(1,804)	1:90:B:LEU:HD23	1:39:B:LEU:HD22	20	0.92	0.29	0.9
(1,804)	1:90:B:LEU:HD23	1:39:B:LEU:HD23	20	0.92	0.29	0.9
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD22	20	0.92	0.29	0.9
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD21	20	0.92	0.29	0.9
(1,804)	1:90:B:LEU:HD23	1:39:B:LEU:HD21	20	0.92	0.29	0.9
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD23	20	0.92	0.29	0.9
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD22	20	0.92	0.29	0.9
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD23	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD21	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD23	1:39:A:LEU:HD22	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD23	1:39:A:LEU:HD23	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD22	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD21	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD23	1:39:A:LEU:HD21	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD23	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD22	20	0.92	0.29	0.9
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD23	20	0.92	0.29	0.9
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD13	20	0.88	0.65	0.78
(1,199)	1:112:A:LEU:HD13	1:71:A:ILE:HD13	20	0.88	0.65	0.78
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD12	20	0.88	0.65	0.78
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD11	20	0.88	0.65	0.78
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD13	20	0.88	0.65	0.78
(1,199)	1:112:A:LEU:HD13	1:71:A:ILE:HD12	20	0.88	0.65	0.78
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD11	20	0.88	0.65	0.78
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD12	20	0.88	0.65	0.78
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD13	20	0.88	0.65	0.78
(1,200)	1:112:B:LEU:HD13	1:71:B:ILE:HD13	20	0.88	0.65	0.78
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD12	20	0.88	0.65	0.78
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD11	20	0.88	0.65	0.78
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD13	20	0.88	0.65	0.78
(1,200)	1:112:B:LEU:HD13	1:71:B:ILE:HD12	20	0.88	0.65	0.78
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD11	20	0.88	0.65	0.78
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD12	20	0.88	0.65	0.78
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	20	0.8	0.08	0.8
(1,593)	1:39:A:LEU:HD13	1:38:A:VAL:HB	20	0.8	0.08	0.8

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,593)	1:39:A:LEU:HD11	1:38:A:VAL:HB	20	0.8	0.08	0.8
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	20	0.8	0.09	0.8
(1,594)	1:39:B:LEU:HD13	1:38:B:VAL:HB	20	0.8	0.09	0.8
(1,594)	1:39:B:LEU:HD11	1:38:B:VAL:HB	20	0.8	0.09	0.8
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	20	0.8	0.33	0.82
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	20	0.79	0.33	0.82
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	20	0.76	0.29	0.99
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	20	0.76	0.29	0.99
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	20	0.73	0.26	0.65
(1,283)	1:109:A:VAL:HG11	1:108:A:CYS:H	20	0.73	0.26	0.65
(1,283)	1:109:A:VAL:HG12	1:108:A:CYS:H	20	0.73	0.26	0.65
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	20	0.73	0.26	0.66
(1,284)	1:109:B:VAL:HG11	1:108:B:CYS:H	20	0.73	0.26	0.66
(1,284)	1:109:B:VAL:HG12	1:108:B:CYS:H	20	0.73	0.26	0.66
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	20	0.65	0.23	0.59
(1,3916)	1:39:B:LEU:HD11	1:38:B:VAL:H	20	0.65	0.23	0.59
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	20	0.65	0.23	0.59
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	20	0.65	0.23	0.59
(1,3915)	1:39:A:LEU:HD11	1:38:A:VAL:H	20	0.65	0.23	0.59
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	20	0.65	0.23	0.59
(1,2898)	1:20:B:VAL:HG22	1:22:B:VAL:H	20	0.63	0.07	0.64
(1,2898)	1:20:B:VAL:HG21	1:22:B:VAL:H	20	0.63	0.07	0.64
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	20	0.63	0.07	0.64
(1,2897)	1:20:A:VAL:HG22	1:22:A:VAL:H	20	0.63	0.07	0.64
(1,2897)	1:20:A:VAL:HG21	1:22:A:VAL:H	20	0.63	0.07	0.64
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	20	0.63	0.07	0.64
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG23	20	0.63	0.27	0.61
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG21	20	0.63	0.27	0.61
(1,4607)	1:112:A:LEU:HD13	1:14:B:VAL:HG23	20	0.63	0.27	0.61
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG22	20	0.63	0.27	0.61
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG21	20	0.63	0.27	0.61
(1,4607)	1:112:A:LEU:HD13	1:14:B:VAL:HG21	20	0.63	0.27	0.61
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG23	20	0.63	0.27	0.61
(1,4607)	1:112:A:LEU:HD13	1:14:B:VAL:HG22	20	0.63	0.27	0.61
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG23	20	0.62	0.27	0.62
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG21	20	0.62	0.27	0.62
(1,4608)	1:112:B:LEU:HD13	1:14:A:VAL:HG23	20	0.62	0.27	0.62
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG22	20	0.62	0.27	0.62
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG21	20	0.62	0.27	0.62
(1,4608)	1:112:B:LEU:HD13	1:14:A:VAL:HG21	20	0.62	0.27	0.62
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG23	20	0.62	0.27	0.62
(1,4608)	1:112:B:LEU:HD13	1:14:A:VAL:HG22	20	0.62	0.27	0.62

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,867)	1:18:A:VAL:HG13	1:57:A:LYS:HB2	20	0.62	0.53	0.4
(1,867)	1:18:A:VAL:HG12	1:57:A:LYS:HB2	20	0.62	0.53	0.4
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	20	0.62	0.53	0.4
(1,868)	1:18:B:VAL:HG13	1:57:B:LYS:HB2	20	0.62	0.52	0.4
(1,868)	1:18:B:VAL:HG12	1:57:B:LYS:HB2	20	0.62	0.52	0.4
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	20	0.62	0.52	0.4
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	20	0.6	0.01	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	20	0.6	0.0	0.6
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	20	0.53	0.15	0.51
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	20	0.53	0.15	0.51
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG11	20	0.53	0.15	0.51
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	20	0.52	0.15	0.51
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	20	0.52	0.15	0.51
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG11	20	0.52	0.15	0.51
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG23	20	0.52	0.02	0.52
(1,1265)	1:64:A:VAL:HG12	1:64:A:VAL:HG22	20	0.52	0.02	0.52
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG22	20	0.52	0.02	0.52
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG21	20	0.52	0.02	0.52
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG22	20	0.52	0.02	0.52
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG21	20	0.52	0.02	0.52
(1,1265)	1:64:A:VAL:HG12	1:64:A:VAL:HG21	20	0.52	0.02	0.52
(1,1265)	1:64:A:VAL:HG12	1:64:A:VAL:HG23	20	0.52	0.02	0.52
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG23	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG23	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG12	1:64:B:VAL:HG22	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG22	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG21	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG22	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG21	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG12	1:64:B:VAL:HG21	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG12	1:64:B:VAL:HG23	20	0.52	0.02	0.52
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG23	20	0.52	0.02	0.52
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	20	0.52	0.12	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	20	0.52	0.12	0.57
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG23	20	0.47	0.01	0.47
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG23	20	0.47	0.01	0.47
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG21	20	0.47	0.01	0.47
(1,287)	1:109:A:VAL:HG11	1:109:A:VAL:HG22	20	0.47	0.01	0.47
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG22	20	0.47	0.01	0.47
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG21	20	0.47	0.01	0.47
(1,287)	1:109:A:VAL:HG11	1:109:A:VAL:HG21	20	0.47	0.01	0.47
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG22	20	0.47	0.01	0.47

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG23	20	0.47	0.01	0.47
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG23	20	0.47	0.01	0.47
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG21	20	0.47	0.01	0.47
(1,288)	1:109:B:VAL:HG11	1:109:B:VAL:HG22	20	0.47	0.01	0.47
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG22	20	0.47	0.01	0.47
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG21	20	0.47	0.01	0.47
(1,288)	1:109:B:VAL:HG11	1:109:B:VAL:HG21	20	0.47	0.01	0.47
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG22	20	0.47	0.01	0.47
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	20	0.44	0.28	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	20	0.44	0.28	0.69
(1,2374)	1:38:B:VAL:HG12	1:38:B:VAL:HG23	20	0.44	0.02	0.44
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG22	20	0.44	0.02	0.44
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG23	20	0.44	0.02	0.44
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG21	20	0.44	0.02	0.44
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG22	20	0.44	0.02	0.44
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG21	20	0.44	0.02	0.44
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG23	20	0.44	0.02	0.44
(1,2374)	1:38:B:VAL:HG12	1:38:B:VAL:HG22	20	0.44	0.02	0.44
(1,2373)	1:38:A:VAL:HG12	1:38:A:VAL:HG23	20	0.44	0.02	0.44
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	20	0.44	0.02	0.44
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	20	0.44	0.02	0.44
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG21	20	0.44	0.02	0.44
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG22	20	0.44	0.02	0.44
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG21	20	0.44	0.02	0.44
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	20	0.44	0.02	0.44
(1,2373)	1:38:A:VAL:HG12	1:38:A:VAL:HG22	20	0.44	0.02	0.44
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	20	0.4	0.01	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	20	0.4	0.01	0.4
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	20	0.38	0.05	0.38
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	20	0.38	0.05	0.38
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	20	0.37	0.13	0.38
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG11	20	0.37	0.13	0.38
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG12	20	0.37	0.13	0.38
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	20	0.36	0.13	0.38
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG11	20	0.36	0.13	0.38
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG12	20	0.36	0.13	0.38
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	20	0.36	0.01	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG11	20	0.36	0.01	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG12	20	0.36	0.01	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	20	0.36	0.01	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG11	20	0.36	0.01	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG12	20	0.36	0.01	0.36

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	20	0.35	0.33	0.24
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	20	0.35	0.33	0.24
(1,3460)	1:107:B:ALA:HB1	1:107:B:ALA:H	20	0.34	0.1	0.34
(1,3460)	1:107:B:ALA:HB3	1:107:B:ALA:H	20	0.34	0.1	0.34
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	20	0.34	0.1	0.34
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG21	20	0.32	0.25	0.27
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	20	0.32	0.25	0.27
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG22	20	0.32	0.25	0.27
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG21	20	0.32	0.25	0.27
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	20	0.32	0.25	0.27
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG22	20	0.32	0.25	0.27
(1,381)	1:6:A:VAL:HG12	1:6:A:VAL:HB	20	0.32	0.01	0.32
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	20	0.32	0.01	0.32
(1,381)	1:6:A:VAL:HG11	1:6:A:VAL:HB	20	0.32	0.01	0.32
(1,382)	1:6:B:VAL:HG12	1:6:B:VAL:HB	20	0.32	0.01	0.32
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	20	0.32	0.01	0.32
(1,382)	1:6:B:VAL:HG11	1:6:B:VAL:HB	20	0.32	0.01	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	20	0.32	0.01	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG21	20	0.32	0.01	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG22	20	0.32	0.01	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	20	0.32	0.01	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG21	20	0.32	0.01	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG22	20	0.32	0.01	0.32
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	20	0.31	0.0	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG22	20	0.31	0.0	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG23	20	0.31	0.0	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG23	20	0.31	0.0	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	20	0.31	0.0	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG22	20	0.31	0.0	0.31
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	20	0.29	0.01	0.29
(1,8)	1:6:B:VAL:HG22	1:6:B:VAL:HB	20	0.29	0.01	0.29
(1,8)	1:6:B:VAL:HG23	1:6:B:VAL:HB	20	0.29	0.01	0.29
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	20	0.28	0.01	0.29
(1,7)	1:6:A:VAL:HG22	1:6:A:VAL:HB	20	0.28	0.01	0.29
(1,7)	1:6:A:VAL:HG23	1:6:A:VAL:HB	20	0.28	0.01	0.29
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	20	0.28	0.02	0.28
(1,4169)	1:20:A:VAL:HG13	1:20:A:VAL:H	20	0.28	0.02	0.28
(1,4169)	1:20:A:VAL:HG11	1:20:A:VAL:H	20	0.28	0.02	0.28
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	20	0.28	0.02	0.28
(1,4170)	1:20:B:VAL:HG13	1:20:B:VAL:H	20	0.28	0.02	0.28
(1,4170)	1:20:B:VAL:HG11	1:20:B:VAL:H	20	0.28	0.02	0.28
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	20	0.27	0.07	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	20	0.27	0.07	0.29
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG23	20	0.26	0.04	0.26
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	20	0.26	0.04	0.26
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG21	20	0.26	0.04	0.26
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG23	20	0.26	0.04	0.26
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	20	0.26	0.04	0.26
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG21	20	0.26	0.04	0.26
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	20	0.26	0.05	0.27
(1,4316)	1:28:B:ALA:HB2	1:28:B:ALA:H	20	0.26	0.05	0.27
(1,4316)	1:28:B:ALA:HB1	1:28:B:ALA:H	20	0.26	0.05	0.27
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	20	0.26	0.05	0.26
(1,4315)	1:28:A:ALA:HB2	1:28:A:ALA:H	20	0.26	0.05	0.26
(1,4315)	1:28:A:ALA:HB1	1:28:A:ALA:H	20	0.26	0.05	0.26
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG23	20	0.24	0.01	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG22	20	0.24	0.01	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG21	20	0.24	0.01	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG23	20	0.24	0.01	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG22	20	0.24	0.01	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG21	20	0.24	0.01	0.24
(1,327)	1:102:A:ILE:HG21	1:102:A:ILE:HG13	20	0.23	0.01	0.24
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	20	0.23	0.01	0.24
(1,327)	1:102:A:ILE:HG22	1:102:A:ILE:HG13	20	0.23	0.01	0.24
(1,328)	1:102:B:ILE:HG21	1:102:B:ILE:HG13	20	0.23	0.01	0.24
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	20	0.23	0.01	0.24
(1,328)	1:102:B:ILE:HG22	1:102:B:ILE:HG13	20	0.23	0.01	0.24
(1,1295)	1:102:A:ILE:HD13	1:102:A:ILE:HG12	20	0.23	0.0	0.23
(1,1295)	1:102:A:ILE:HD12	1:102:A:ILE:HG12	20	0.23	0.0	0.23
(1,1295)	1:102:A:ILE:HD11	1:102:A:ILE:HG12	20	0.23	0.0	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	20	0.23	0.0	0.23
(1,1296)	1:102:B:ILE:HD12	1:102:B:ILE:HG12	20	0.23	0.0	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	20	0.23	0.0	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG12	20	0.22	0.01	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	20	0.22	0.01	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG13	20	0.22	0.01	0.23
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	20	0.22	0.02	0.22
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	20	0.22	0.03	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG12	20	0.22	0.01	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	20	0.22	0.01	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG13	20	0.22	0.01	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	20	0.21	0.01	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD13	20	0.21	0.01	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD11	20	0.21	0.01	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	20	0.21	0.01	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD13	20	0.21	0.01	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD11	20	0.21	0.01	0.21
(1,3762)	1:18:B:VAL:HG21	1:18:B:VAL:H	20	0.21	0.04	0.21
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	20	0.21	0.04	0.21
(1,3762)	1:18:B:VAL:HG22	1:18:B:VAL:H	20	0.21	0.04	0.21
(1,3761)	1:18:A:VAL:HG21	1:18:A:VAL:H	20	0.21	0.04	0.2
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	20	0.21	0.04	0.2
(1,3761)	1:18:A:VAL:HG22	1:18:A:VAL:H	20	0.21	0.04	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG12	20	0.2	0.01	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG13	20	0.2	0.01	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	20	0.2	0.01	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG12	20	0.2	0.01	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG13	20	0.2	0.01	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	20	0.2	0.01	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	20	0.19	0.01	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD21	20	0.19	0.01	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD22	20	0.19	0.01	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	20	0.19	0.01	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD21	20	0.19	0.01	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD22	20	0.19	0.01	0.19
(1,866)	1:18:B:VAL:HG11	1:18:B:VAL:HA	20	0.18	0.02	0.18
(1,866)	1:18:B:VAL:HG13	1:18:B:VAL:HA	20	0.18	0.02	0.18
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	20	0.18	0.02	0.18
(1,865)	1:18:A:VAL:HG11	1:18:A:VAL:HA	20	0.18	0.02	0.18
(1,865)	1:18:A:VAL:HG13	1:18:A:VAL:HA	20	0.18	0.02	0.18
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	20	0.18	0.02	0.18
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	20	0.18	0.01	0.18
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	20	0.18	0.01	0.18
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG12	20	0.18	0.01	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG11	20	0.17	0.01	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	20	0.17	0.01	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG12	20	0.17	0.01	0.18
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD21	20	0.16	0.02	0.17
(1,1873)	1:112:A:LEU:HD13	1:112:A:LEU:HD21	20	0.16	0.02	0.17
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD22	20	0.16	0.02	0.17
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD22	20	0.16	0.02	0.17
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD23	20	0.16	0.02	0.17
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD21	20	0.16	0.02	0.17
(1,1873)	1:112:A:LEU:HD13	1:112:A:LEU:HD22	20	0.16	0.02	0.17
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD23	20	0.16	0.02	0.17
(1,1873)	1:112:A:LEU:HD13	1:112:A:LEU:HD23	20	0.16	0.02	0.17

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD21	20	0.16	0.02	0.16
(1,1874)	1:112:B:LEU:HD13	1:112:B:LEU:HD21	20	0.16	0.02	0.16
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD22	20	0.16	0.02	0.16
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD22	20	0.16	0.02	0.16
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD23	20	0.16	0.02	0.16
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD21	20	0.16	0.02	0.16
(1,1874)	1:112:B:LEU:HD13	1:112:B:LEU:HD22	20	0.16	0.02	0.16
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD23	20	0.16	0.02	0.16
(1,1874)	1:112:B:LEU:HD13	1:112:B:LEU:HD23	20	0.16	0.02	0.16
(1,908)	1:22:B:VAL:HG23	1:22:B:VAL:HB	20	0.14	0.01	0.14
(1,908)	1:22:B:VAL:HG21	1:22:B:VAL:HB	20	0.14	0.01	0.14
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	20	0.14	0.01	0.14
(1,907)	1:22:A:VAL:HG23	1:22:A:VAL:HB	20	0.14	0.01	0.14
(1,907)	1:22:A:VAL:HG21	1:22:A:VAL:HB	20	0.14	0.01	0.14
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	20	0.14	0.01	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG22	20	0.14	0.01	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG21	20	0.14	0.01	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG23	20	0.14	0.01	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	20	0.14	0.01	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG21	20	0.14	0.01	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG23	20	0.14	0.01	0.14
(1,552)	1:104:B:ILE:HD13	1:104:B:ILE:HG12	20	0.12	0.01	0.12
(1,552)	1:104:B:ILE:HD11	1:104:B:ILE:HG12	20	0.12	0.01	0.12
(1,552)	1:104:B:ILE:HD12	1:104:B:ILE:HG12	20	0.12	0.01	0.12
(1,551)	1:104:A:ILE:HD13	1:104:A:ILE:HG12	20	0.12	0.01	0.12
(1,551)	1:104:A:ILE:HD11	1:104:A:ILE:HG12	20	0.12	0.01	0.12
(1,551)	1:104:A:ILE:HD12	1:104:A:ILE:HG12	20	0.12	0.01	0.12
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG22	19	2.62	1.36	2.65
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	19	2.62	1.36	2.65
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG23	19	2.62	1.36	2.65
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG22	19	2.62	1.36	2.65
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	19	2.62	1.36	2.65
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG23	19	2.62	1.36	2.65
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	19	1.97	0.85	2.27
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	19	1.97	0.85	2.27
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	19	1.52	0.67	1.41
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	19	1.52	0.67	1.4
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	19	0.99	0.48	0.8
(1,4614)	1:112:B:LEU:HD21	1:14:A:VAL:H	19	0.99	0.48	0.8
(1,4614)	1:112:B:LEU:HD23	1:14:A:VAL:H	19	0.99	0.48	0.8
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	19	0.98	0.47	0.81
(1,4613)	1:112:A:LEU:HD21	1:14:B:VAL:H	19	0.98	0.47	0.81

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4613)	1:112:A:LEU:HD23	1:14:B:VAL:H	19	0.98	0.47	0.81
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	19	0.88	0.44	0.91
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	19	0.88	0.44	0.91
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	19	0.8	0.5	0.74
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	19	0.79	0.48	0.71
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	19	0.77	0.19	0.69
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	19	0.77	0.19	0.69
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	19	0.76	0.07	0.76
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	19	0.76	0.07	0.76
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	19	0.66	0.28	0.73
(1,1885)	1:112:A:LEU:HD22	1:77:A:ASN:HA	19	0.66	0.28	0.73
(1,1885)	1:112:A:LEU:HD21	1:77:A:ASN:HA	19	0.66	0.28	0.73
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	19	0.66	0.27	0.73
(1,1886)	1:112:B:LEU:HD22	1:77:B:ASN:HA	19	0.66	0.27	0.73
(1,1886)	1:112:B:LEU:HD21	1:77:B:ASN:HA	19	0.66	0.27	0.73
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	19	0.46	0.18	0.46
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	19	0.46	0.18	0.46
(1,2115)	1:36:A:VAL:HG23	1:35:A:GLU:H	19	0.46	0.18	0.46
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	19	0.42	0.04	0.43
(1,4563)	1:48:A:VAL:HG11	1:48:A:VAL:H	19	0.42	0.04	0.43
(1,4563)	1:48:A:VAL:HG12	1:48:A:VAL:H	19	0.42	0.04	0.43
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	19	0.42	0.04	0.43
(1,4564)	1:48:B:VAL:HG11	1:48:B:VAL:H	19	0.42	0.04	0.43
(1,4564)	1:48:B:VAL:HG12	1:48:B:VAL:H	19	0.42	0.04	0.43
(1,1715)	1:104:A:ILE:HG21	1:104:A:ILE:HG13	19	0.42	0.01	0.42
(1,1715)	1:104:A:ILE:HG23	1:104:A:ILE:HG13	19	0.42	0.01	0.42
(1,1715)	1:104:A:ILE:HG22	1:104:A:ILE:HG13	19	0.42	0.01	0.42
(1,1716)	1:104:B:ILE:HG21	1:104:B:ILE:HG13	19	0.42	0.01	0.42
(1,1716)	1:104:B:ILE:HG23	1:104:B:ILE:HG13	19	0.42	0.01	0.42
(1,1716)	1:104:B:ILE:HG22	1:104:B:ILE:HG13	19	0.42	0.01	0.42
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	19	0.41	0.39	0.26
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	19	0.41	0.4	0.26
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	19	0.38	0.27	0.17
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	19	0.38	0.27	0.17
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	19	0.37	0.17	0.33
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG13	19	0.37	0.17	0.33
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG11	19	0.37	0.17	0.33
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	19	0.37	0.17	0.32
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG13	19	0.37	0.17	0.32
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG11	19	0.37	0.17	0.32
(1,3459)	1:107:A:ALA:HB1	1:107:A:ALA:H	19	0.36	0.08	0.34
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	19	0.36	0.08	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3459)	1:107:A:ALA:HB3	1:107:A:ALA:H	19	0.36	0.08	0.34
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	19	0.32	0.12	0.31
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	19	0.32	0.12	0.3
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	19	0.32	0.09	0.31
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	19	0.32	0.09	0.31
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	19	0.27	0.11	0.29
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG13	19	0.27	0.11	0.29
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG11	19	0.27	0.11	0.29
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	19	0.27	0.11	0.29
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG13	19	0.27	0.11	0.29
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG11	19	0.27	0.11	0.29
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB1	19	0.12	0.01	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB2	19	0.12	0.01	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	19	0.12	0.01	0.13
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB1	19	0.12	0.01	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB2	19	0.12	0.01	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	19	0.12	0.01	0.12
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD11	18	1.24	0.43	1.25
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD12	18	1.24	0.43	1.25
(1,4649)	1:112:A:LEU:HD13	1:71:B:ILE:HD11	18	1.24	0.43	1.25
(1,4649)	1:112:A:LEU:HD11	1:71:B:ILE:HD11	18	1.24	0.43	1.25
(1,4649)	1:112:A:LEU:HD11	1:71:B:ILE:HD12	18	1.24	0.43	1.25
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD13	18	1.24	0.43	1.25
(1,4649)	1:112:A:LEU:HD13	1:71:B:ILE:HD13	18	1.24	0.43	1.25
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD11	18	1.24	0.43	1.25
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD12	18	1.24	0.43	1.25
(1,4650)	1:112:B:LEU:HD13	1:71:A:ILE:HD11	18	1.24	0.43	1.25
(1,4650)	1:112:B:LEU:HD11	1:71:A:ILE:HD11	18	1.24	0.43	1.25
(1,4650)	1:112:B:LEU:HD11	1:71:A:ILE:HD12	18	1.24	0.43	1.25
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD13	18	1.24	0.43	1.25
(1,4650)	1:112:B:LEU:HD13	1:71:A:ILE:HD13	18	1.24	0.43	1.25
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	18	1.13	0.72	0.81
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	18	1.13	0.72	0.82
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	18	0.59	0.24	0.55
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	18	0.59	0.24	0.56
(1,886)	1:36:B:VAL:HG13	1:29:B:THR:H	18	0.54	0.23	0.5
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	18	0.54	0.23	0.5
(1,886)	1:36:B:VAL:HG11	1:29:B:THR:H	18	0.54	0.23	0.5
(1,885)	1:36:A:VAL:HG13	1:29:A:THR:H	18	0.53	0.23	0.5
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	18	0.53	0.23	0.5
(1,885)	1:36:A:VAL:HG11	1:29:A:THR:H	18	0.53	0.23	0.5
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	18	0.48	0.16	0.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	18	0.48	0.16	0.46
(1,2116)	1:36:B:VAL:HG23	1:35:B:GLU:H	18	0.48	0.16	0.46
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	18	0.33	0.05	0.31
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	18	0.33	0.01	0.33
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	18	0.33	0.05	0.31
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	18	0.33	0.01	0.33
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	18	0.24	0.09	0.25
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	18	0.24	0.09	0.25
(1,3821)	1:27:A:THR:HG22	1:27:A:THR:H	18	0.24	0.09	0.25
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB3	18	0.24	0.06	0.24
(1,324)	1:102:B:ILE:HG22	1:28:B:ALA:HB2	18	0.24	0.06	0.24
(1,324)	1:102:B:ILE:HG21	1:28:B:ALA:HB3	18	0.24	0.06	0.24
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB1	18	0.24	0.06	0.24
(1,324)	1:102:B:ILE:HG22	1:28:B:ALA:HB3	18	0.24	0.06	0.24
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB2	18	0.24	0.06	0.24
(1,324)	1:102:B:ILE:HG21	1:28:B:ALA:HB1	18	0.24	0.06	0.24
(1,324)	1:102:B:ILE:HG22	1:28:B:ALA:HB1	18	0.24	0.06	0.24
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB3	18	0.24	0.06	0.24
(1,323)	1:102:A:ILE:HG22	1:28:A:ALA:HB2	18	0.24	0.06	0.24
(1,323)	1:102:A:ILE:HG21	1:28:A:ALA:HB3	18	0.24	0.06	0.24
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB1	18	0.24	0.06	0.24
(1,323)	1:102:A:ILE:HG22	1:28:A:ALA:HB3	18	0.24	0.06	0.24
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB2	18	0.24	0.06	0.24
(1,323)	1:102:A:ILE:HG21	1:28:A:ALA:HB1	18	0.24	0.06	0.24
(1,323)	1:102:A:ILE:HG22	1:28:A:ALA:HB1	18	0.24	0.06	0.24
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	18	0.18	0.02	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	18	0.18	0.02	0.19
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG12	17	1.69	1.05	2.11
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	17	1.69	1.05	2.11
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG13	17	1.69	1.05	2.11
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG12	17	1.68	1.05	2.11
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	17	1.68	1.05	2.11
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG13	17	1.68	1.05	2.11
(1,4600)	1:12:B:PHE:HD1	1:112:A:LEU:HD11	17	1.29	0.53	1.04
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD11	17	1.29	0.53	1.04
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD12	17	1.29	0.53	1.04
(1,4600)	1:12:B:PHE:HD1	1:112:A:LEU:HD13	17	1.29	0.53	1.04
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD13	17	1.29	0.53	1.04
(1,4599)	1:12:A:PHE:HD1	1:112:B:LEU:HD11	17	1.29	0.53	1.02
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD11	17	1.29	0.53	1.02
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD12	17	1.29	0.53	1.02
(1,4599)	1:12:A:PHE:HD1	1:112:B:LEU:HD13	17	1.29	0.53	1.02

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD13	17	1.29	0.53	1.02
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	17	1.28	0.91	1.01
(1,4588)	1:9:B:MET:HE2	1:118:A:ARG:HG3	17	1.28	0.91	1.01
(1,4588)	1:9:B:MET:HE3	1:118:A:ARG:HG3	17	1.28	0.91	1.01
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	17	1.19	0.61	1.39
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	17	1.19	0.61	1.37
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	17	0.93	0.46	0.76
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	17	0.93	0.46	0.76
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	17	0.78	0.31	0.95
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	17	0.78	0.31	0.95
(1,2240)	1:85:B:THR:HG23	1:106:B:THR:HG23	17	0.62	0.31	0.53
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG22	17	0.62	0.31	0.53
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG22	17	0.62	0.31	0.53
(1,2240)	1:85:B:THR:HG23	1:106:B:THR:HG21	17	0.62	0.31	0.53
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG21	17	0.62	0.31	0.53
(1,2240)	1:85:B:THR:HG23	1:106:B:THR:HG22	17	0.62	0.31	0.53
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG23	17	0.62	0.31	0.53
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG23	17	0.62	0.31	0.53
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG21	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG23	1:106:A:THR:HG23	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG22	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG22	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG23	1:106:A:THR:HG21	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG21	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG23	1:106:A:THR:HG22	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG23	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG23	17	0.62	0.31	0.53
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG21	17	0.62	0.31	0.53
(1,237)	1:18:A:VAL:HG12	1:19:A:SER:HB2	17	0.5	0.12	0.52
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	17	0.5	0.12	0.52
(1,237)	1:18:A:VAL:HG13	1:19:A:SER:HB2	17	0.5	0.12	0.52
(1,238)	1:18:B:VAL:HG12	1:19:B:SER:HB2	17	0.5	0.12	0.52
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	17	0.5	0.12	0.52
(1,238)	1:18:B:VAL:HG13	1:19:B:SER:HB2	17	0.5	0.12	0.52
(1,1320)	1:31:B:ILE:HD13	1:101:B:PHE:HB2	17	0.42	0.18	0.44
(1,1320)	1:31:B:ILE:HD11	1:101:B:PHE:HB2	17	0.42	0.18	0.44
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	17	0.42	0.18	0.44
(1,1319)	1:31:A:ILE:HD13	1:101:A:PHE:HB2	17	0.42	0.17	0.44
(1,1319)	1:31:A:ILE:HD11	1:101:A:PHE:HB2	17	0.42	0.17	0.44
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	17	0.42	0.17	0.44
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD12	17	0.35	0.15	0.39
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD11	17	0.35	0.15	0.39

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD13	17	0.35	0.15	0.39
(1,1286)	1:87:B:VAL:HG13	1:102:B:ILE:HD13	17	0.35	0.15	0.39
(1,1286)	1:87:B:VAL:HG11	1:102:B:ILE:HD12	17	0.35	0.15	0.39
(1,1286)	1:87:B:VAL:HG11	1:102:B:ILE:HD13	17	0.35	0.15	0.39
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD12	17	0.35	0.15	0.38
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD11	17	0.35	0.15	0.38
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD13	17	0.35	0.15	0.38
(1,1285)	1:87:A:VAL:HG13	1:102:A:ILE:HD13	17	0.35	0.15	0.38
(1,1285)	1:87:A:VAL:HG11	1:102:A:ILE:HD12	17	0.35	0.15	0.38
(1,1285)	1:87:A:VAL:HG11	1:102:A:ILE:HD13	17	0.35	0.15	0.38
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	17	0.34	0.18	0.3
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	17	0.34	0.18	0.29
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	17	0.26	0.09	0.23
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	17	0.26	0.08	0.23
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	17	0.25	0.0	0.25
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	17	0.25	0.01	0.25
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	17	0.25	0.09	0.25
(1,3822)	1:27:B:THR:HG23	1:27:B:THR:H	17	0.25	0.09	0.25
(1,3822)	1:27:B:THR:HG22	1:27:B:THR:H	17	0.25	0.09	0.25
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	17	0.23	0.07	0.25
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG21	17	0.23	0.07	0.25
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG23	17	0.23	0.07	0.25
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	17	0.18	0.08	0.17
(1,3417)	1:14:A:VAL:HG12	1:15:A:CYS:H	17	0.18	0.08	0.17
(1,3417)	1:14:A:VAL:HG13	1:15:A:CYS:H	17	0.18	0.08	0.17
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	17	0.15	0.03	0.14
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	17	0.14	0.03	0.14
(1,4594)	1:9:B:MET:HE1	1:118:A:ARG:HB3	16	1.91	0.89	1.79
(1,4594)	1:9:B:MET:HE3	1:118:A:ARG:HB3	16	1.91	0.89	1.79
(1,4594)	1:9:B:MET:HE2	1:118:A:ARG:HB3	16	1.91	0.89	1.79
(1,4592)	1:9:A:MET:HE1	1:118:B:ARG:HB3	16	1.89	0.86	1.78
(1,4592)	1:9:A:MET:HE3	1:118:B:ARG:HB3	16	1.89	0.86	1.78
(1,4592)	1:9:A:MET:HE2	1:118:B:ARG:HB3	16	1.89	0.86	1.78
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG12	16	1.37	0.59	1.42
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG11	16	1.37	0.59	1.42
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG11	16	1.37	0.59	1.42
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG13	16	1.37	0.59	1.42
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG12	16	1.37	0.59	1.42
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG13	16	1.37	0.59	1.42
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG12	16	1.36	0.59	1.46
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG11	16	1.36	0.59	1.46
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG11	16	1.36	0.59	1.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG13	16	1.36	0.59	1.46
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG12	16	1.36	0.59	1.46
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG13	16	1.36	0.59	1.46
(1,4586)	1:9:A:MET:HE1	1:118:B:ARG:HG3	16	1.32	0.86	1.02
(1,4586)	1:9:A:MET:HE2	1:118:B:ARG:HG3	16	1.32	0.86	1.02
(1,4586)	1:9:A:MET:HE3	1:118:B:ARG:HG3	16	1.32	0.86	1.02
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG21	16	0.7	0.35	0.63
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG22	16	0.7	0.35	0.63
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG23	16	0.7	0.35	0.63
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG21	16	0.7	0.35	0.62
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG22	16	0.7	0.35	0.62
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG23	16	0.7	0.35	0.62
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	16	0.63	0.37	0.51
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD11	16	0.63	0.37	0.51
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD13	16	0.63	0.37	0.51
(1,4639)	1:112:A:LEU:HD13	1:71:B:ILE:H	16	0.51	0.35	0.42
(1,4639)	1:112:A:LEU:HD11	1:71:B:ILE:H	16	0.51	0.35	0.42
(1,4639)	1:112:A:LEU:HD12	1:71:B:ILE:H	16	0.51	0.35	0.42
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	16	0.51	0.09	0.53
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	16	0.51	0.09	0.53
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	16	0.48	0.3	0.3
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	16	0.48	0.3	0.3
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG21	16	0.29	0.14	0.22
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG23	16	0.29	0.14	0.22
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG22	16	0.29	0.14	0.22
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG21	16	0.29	0.14	0.22
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG23	16	0.29	0.14	0.22
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG22	16	0.29	0.14	0.22
(1,3418)	1:14:B:VAL:HG11	1:15:B:CYS:H	16	0.19	0.08	0.18
(1,3418)	1:14:B:VAL:HG12	1:15:B:CYS:H	16	0.19	0.08	0.18
(1,3418)	1:14:B:VAL:HG13	1:15:B:CYS:H	16	0.19	0.08	0.18
(1,4593)	1:9:B:MET:HE1	1:118:A:ARG:HB2	15	1.76	0.98	1.47
(1,4593)	1:9:B:MET:HE3	1:118:A:ARG:HB2	15	1.76	0.98	1.47
(1,4593)	1:9:B:MET:HE2	1:118:A:ARG:HB2	15	1.76	0.98	1.47
(1,4591)	1:9:A:MET:HE1	1:118:B:ARG:HB2	15	1.73	0.97	1.43
(1,4591)	1:9:A:MET:HE3	1:118:B:ARG:HB2	15	1.73	0.97	1.43
(1,4591)	1:9:A:MET:HE2	1:118:B:ARG:HB2	15	1.73	0.97	1.43
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	15	0.7	0.25	0.56
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	15	0.7	0.25	0.56
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD12	15	0.67	0.36	0.56
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD11	15	0.67	0.36	0.56
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD13	15	0.67	0.36	0.56

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4640)	1:112:B:LEU:HD12	1:71:A:ILE:H	15	0.54	0.36	0.5
(1,4640)	1:112:B:LEU:HD13	1:71:A:ILE:H	15	0.54	0.36	0.5
(1,4640)	1:112:B:LEU:HD11	1:71:A:ILE:H	15	0.54	0.36	0.5
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	15	0.52	0.26	0.48
(1,1934)	1:20:B:VAL:HG13	1:55:B:GLU:HG3	15	0.52	0.26	0.48
(1,1934)	1:20:B:VAL:HG11	1:55:B:GLU:HG3	15	0.52	0.26	0.48
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	15	0.51	0.27	0.47
(1,1933)	1:20:A:VAL:HG13	1:55:A:GLU:HG3	15	0.51	0.27	0.47
(1,1933)	1:20:A:VAL:HG11	1:55:A:GLU:HG3	15	0.51	0.27	0.47
(1,1258)	1:64:B:VAL:HG11	1:68:B:CYS:H	15	0.48	0.33	0.37
(1,1258)	1:64:B:VAL:HG13	1:68:B:CYS:H	15	0.48	0.33	0.37
(1,1258)	1:64:B:VAL:HG12	1:68:B:CYS:H	15	0.48	0.33	0.37
(1,1257)	1:64:A:VAL:HG11	1:68:A:CYS:H	15	0.48	0.33	0.37
(1,1257)	1:64:A:VAL:HG13	1:68:A:CYS:H	15	0.48	0.33	0.37
(1,1257)	1:64:A:VAL:HG12	1:68:A:CYS:H	15	0.48	0.33	0.37
(1,4189)	1:39:A:LEU:HD12	1:41:A:GLU:H	15	0.45	0.22	0.44
(1,4189)	1:39:A:LEU:HD11	1:41:A:GLU:H	15	0.45	0.22	0.44
(1,4189)	1:39:A:LEU:HD13	1:41:A:GLU:H	15	0.45	0.22	0.44
(1,4190)	1:39:B:LEU:HD12	1:41:B:GLU:H	15	0.45	0.22	0.44
(1,4190)	1:39:B:LEU:HD11	1:41:B:GLU:H	15	0.45	0.22	0.44
(1,4190)	1:39:B:LEU:HD13	1:41:B:GLU:H	15	0.45	0.22	0.44
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	15	0.39	0.27	0.15
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	15	0.39	0.27	0.15
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD11	15	0.28	0.11	0.29
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD12	15	0.28	0.11	0.29
(1,772)	1:87:B:VAL:HG13	1:104:B:ILE:HD12	15	0.28	0.11	0.29
(1,772)	1:87:B:VAL:HG13	1:104:B:ILE:HD11	15	0.28	0.11	0.29
(1,772)	1:87:B:VAL:HG11	1:104:B:ILE:HD11	15	0.28	0.11	0.29
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD13	15	0.28	0.11	0.29
(1,772)	1:87:B:VAL:HG11	1:104:B:ILE:HD13	15	0.28	0.11	0.29
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD11	15	0.28	0.11	0.29
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD12	15	0.28	0.11	0.29
(1,771)	1:87:A:VAL:HG13	1:104:A:ILE:HD12	15	0.28	0.11	0.29
(1,771)	1:87:A:VAL:HG13	1:104:A:ILE:HD11	15	0.28	0.11	0.29
(1,771)	1:87:A:VAL:HG11	1:104:A:ILE:HD11	15	0.28	0.11	0.29
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD13	15	0.28	0.11	0.29
(1,771)	1:87:A:VAL:HG11	1:104:A:ILE:HD13	15	0.28	0.11	0.29
(1,2954)	1:27:B:THR:HG21	1:38:B:VAL:H	15	0.26	0.1	0.22
(1,2954)	1:27:B:THR:HG23	1:38:B:VAL:H	15	0.26	0.1	0.22
(1,2954)	1:27:B:THR:HG22	1:38:B:VAL:H	15	0.26	0.1	0.22
(1,2953)	1:27:A:THR:HG21	1:38:A:VAL:H	15	0.26	0.1	0.22
(1,2953)	1:27:A:THR:HG23	1:38:A:VAL:H	15	0.26	0.1	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2953)	1:27:A:THR:HG22	1:38:A:VAL:H	15	0.26	0.1	0.22
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG22	15	0.25	0.06	0.26
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG21	15	0.25	0.06	0.26
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG23	15	0.25	0.06	0.26
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	14	1.11	1.58	0.5
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	14	1.11	1.58	0.49
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD12	14	1.09	0.66	1.02
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD11	14	1.09	0.66	1.02
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD13	14	1.09	0.66	1.02
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG22	14	0.81	0.75	0.61
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG21	14	0.81	0.75	0.61
(1,828)	1:14:B:VAL:HG13	1:110:B:CYS:HB3	14	0.56	0.42	0.35
(1,828)	1:14:B:VAL:HG11	1:110:B:CYS:HB3	14	0.56	0.42	0.35
(1,828)	1:14:B:VAL:HG12	1:110:B:CYS:HB3	14	0.56	0.42	0.35
(1,827)	1:14:A:VAL:HG13	1:110:A:CYS:HB3	14	0.56	0.42	0.35
(1,827)	1:14:A:VAL:HG11	1:110:A:CYS:HB3	14	0.56	0.42	0.35
(1,827)	1:14:A:VAL:HG12	1:110:A:CYS:HB3	14	0.56	0.42	0.35
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD13	14	0.5	0.36	0.43
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD12	14	0.5	0.36	0.43
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD11	14	0.5	0.36	0.43
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	14	0.49	0.0	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	14	0.49	0.0	0.49
(1,3462)	1:56:B:THR:HG23	1:107:B:ALA:H	14	0.34	0.17	0.31
(1,3462)	1:56:B:THR:HG21	1:107:B:ALA:H	14	0.34	0.17	0.31
(1,3462)	1:56:B:THR:HG22	1:107:B:ALA:H	14	0.34	0.17	0.31
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	14	0.3	0.15	0.26
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	14	0.3	0.15	0.26
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	14	0.16	0.03	0.16
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	14	0.16	0.03	0.16
(1,4619)	1:44:A:ILE:HG21	1:99:B:TRP:HZ2	13	1.48	1.84	1.06
(1,4619)	1:44:A:ILE:HG23	1:99:B:TRP:HZ2	13	1.48	1.84	1.06
(1,4619)	1:44:A:ILE:HG22	1:99:B:TRP:HZ2	13	1.48	1.84	1.06
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	13	1.22	1.02	1.44
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	13	1.22	1.02	1.44
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD12	13	1.17	0.62	1.06
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD11	13	1.17	0.62	1.06
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD13	13	1.17	0.62	1.06
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD13	13	0.91	0.69	0.67
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD11	13	0.91	0.69	0.67
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD12	13	0.91	0.69	0.67
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD13	13	0.89	0.71	0.67
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD11	13	0.89	0.71	0.67

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD12	13	0.89	0.71	0.67
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	13	0.59	0.0	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	13	0.59	0.0	0.59
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	13	0.57	0.34	0.54
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	13	0.57	0.35	0.55
(1,3184)	1:14:B:VAL:HG13	1:110:B:CYS:H	13	0.53	0.3	0.5
(1,3184)	1:14:B:VAL:HG11	1:110:B:CYS:H	13	0.53	0.3	0.5
(1,3184)	1:14:B:VAL:HG12	1:110:B:CYS:H	13	0.53	0.3	0.5
(1,3183)	1:14:A:VAL:HG13	1:110:A:CYS:H	13	0.53	0.3	0.5
(1,3183)	1:14:A:VAL:HG11	1:110:A:CYS:H	13	0.53	0.3	0.5
(1,3183)	1:14:A:VAL:HG12	1:110:A:CYS:H	13	0.53	0.3	0.5
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	13	0.53	0.28	0.42
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	13	0.53	0.29	0.43
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD12	13	0.52	0.36	0.49
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD11	13	0.52	0.36	0.49
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD13	13	0.52	0.36	0.49
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	13	0.49	0.3	0.3
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	13	0.49	0.3	0.31
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	13	0.44	0.03	0.44
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	13	0.44	0.03	0.44
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	13	0.43	0.24	0.32
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	13	0.43	0.24	0.31
(1,3461)	1:56:A:THR:HG23	1:107:A:ALA:H	13	0.36	0.16	0.31
(1,3461)	1:56:A:THR:HG21	1:107:A:ALA:H	13	0.36	0.16	0.31
(1,3461)	1:56:A:THR:HG22	1:107:A:ALA:H	13	0.36	0.16	0.31
(1,524)	1:116:B:ALA:HB1	1:117:B:THR:HA	13	0.29	0.14	0.29
(1,524)	1:116:B:ALA:HB3	1:117:B:THR:HA	13	0.29	0.14	0.29
(1,524)	1:116:B:ALA:HB2	1:117:B:THR:HA	13	0.29	0.14	0.29
(1,4620)	1:44:B:ILE:HG21	1:99:A:TRP:HZ2	12	1.6	1.87	1.31
(1,4620)	1:44:B:ILE:HG23	1:99:A:TRP:HZ2	12	1.6	1.87	1.31
(1,4620)	1:44:B:ILE:HG22	1:99:A:TRP:HZ2	12	1.6	1.87	1.31
(1,4587)	1:9:B:MET:HE1	1:118:A:ARG:HG2	12	1.54	0.84	1.25
(1,4587)	1:9:B:MET:HE2	1:118:A:ARG:HG2	12	1.54	0.84	1.25
(1,4587)	1:9:B:MET:HE3	1:118:A:ARG:HG2	12	1.54	0.84	1.25
(1,4585)	1:9:A:MET:HE1	1:118:B:ARG:HG2	12	1.5	0.79	1.27
(1,4585)	1:9:A:MET:HE2	1:118:B:ARG:HG2	12	1.5	0.79	1.27
(1,4585)	1:9:A:MET:HE3	1:118:B:ARG:HG2	12	1.5	0.79	1.27
(1,2632)	1:6:B:VAL:HG12	1:7:B:PHE:HD1	12	0.99	0.49	0.96
(1,2632)	1:6:B:VAL:HG13	1:7:B:PHE:HD1	12	0.99	0.49	0.96
(1,2632)	1:6:B:VAL:HG11	1:7:B:PHE:HD1	12	0.99	0.49	0.96
(1,2631)	1:6:A:VAL:HG12	1:7:A:PHE:HD1	12	0.99	0.49	0.97
(1,2631)	1:6:A:VAL:HG13	1:7:A:PHE:HD1	12	0.99	0.49	0.97

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2631)	1:6:A:VAL:HG11	1:7:A:PHE:HD1	12	0.99	0.49	0.97
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG22	12	0.96	0.76	0.8
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG21	12	0.96	0.76	0.8
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB1	12	0.94	0.37	1.06
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB2	12	0.94	0.37	1.06
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB3	12	0.94	0.37	1.06
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB1	12	0.94	0.37	1.06
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB2	12	0.94	0.37	1.06
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB3	12	0.94	0.37	1.06
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	12	0.81	0.89	0.42
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	12	0.81	0.89	0.43
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	12	0.62	0.3	0.74
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	12	0.62	0.3	0.74
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	12	0.58	0.28	0.47
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	12	0.58	0.28	0.47
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	12	0.49	0.04	0.48
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	12	0.48	0.05	0.48
(1,1292)	1:102:B:ILE:HD13	1:38:B:VAL:HB	12	0.47	0.31	0.32
(1,1292)	1:102:B:ILE:HD11	1:38:B:VAL:HB	12	0.47	0.31	0.32
(1,1291)	1:102:A:ILE:HD13	1:38:A:VAL:HB	12	0.47	0.31	0.31
(1,1291)	1:102:A:ILE:HD11	1:38:A:VAL:HB	12	0.47	0.31	0.31
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG23	12	0.44	0.3	0.34
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG21	12	0.44	0.3	0.34
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG22	12	0.44	0.3	0.34
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG23	12	0.44	0.3	0.34
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG21	12	0.44	0.3	0.34
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG22	12	0.44	0.3	0.34
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG13	12	0.34	0.2	0.28
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG12	12	0.34	0.2	0.28
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG11	12	0.34	0.2	0.28
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	12	0.33	0.02	0.33
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	12	0.33	0.02	0.33
(1,523)	1:116:A:ALA:HB1	1:117:A:THR:HA	12	0.31	0.14	0.3
(1,523)	1:116:A:ALA:HB3	1:117:A:THR:HA	12	0.31	0.14	0.3
(1,523)	1:116:A:ALA:HB2	1:117:A:THR:HA	12	0.31	0.14	0.3
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	12	0.3	0.14	0.26
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	12	0.3	0.14	0.26
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	12	0.2	0.14	0.17
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	12	0.2	0.14	0.16
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	12	0.18	0.0	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	12	0.18	0.0	0.18
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	11	1.55	1.22	1.39

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	11	1.55	1.22	1.4
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG21	11	1.45	0.9	1.44
(1,1792)	1:9:B:MET:HE2	1:6:B:VAL:HG22	11	1.45	0.9	1.44
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG22	11	1.45	0.9	1.44
(1,1792)	1:9:B:MET:HE2	1:6:B:VAL:HG23	11	1.45	0.9	1.44
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG23	11	1.45	0.9	1.44
(1,1792)	1:9:B:MET:HE2	1:6:B:VAL:HG21	11	1.45	0.9	1.44
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG21	11	1.45	0.9	1.45
(1,1791)	1:9:A:MET:HE2	1:6:A:VAL:HG22	11	1.45	0.9	1.45
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG22	11	1.45	0.9	1.45
(1,1791)	1:9:A:MET:HE2	1:6:A:VAL:HG23	11	1.45	0.9	1.45
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG23	11	1.45	0.9	1.45
(1,1791)	1:9:A:MET:HE2	1:6:A:VAL:HG21	11	1.45	0.9	1.45
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG12	11	0.93	0.46	0.86
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG11	11	0.93	0.46	0.86
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG12	11	0.93	0.46	0.86
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG11	11	0.93	0.46	0.86
(1,3172)	1:83:B:THR:HG22	1:84:B:HIS:H	11	0.75	0.2	0.81
(1,3172)	1:83:B:THR:HG21	1:84:B:HIS:H	11	0.75	0.2	0.81
(1,3172)	1:83:B:THR:HG23	1:84:B:HIS:H	11	0.75	0.2	0.81
(1,3171)	1:83:A:THR:HG22	1:84:A:HIS:H	11	0.74	0.2	0.81
(1,3171)	1:83:A:THR:HG21	1:84:A:HIS:H	11	0.74	0.2	0.81
(1,3171)	1:83:A:THR:HG23	1:84:A:HIS:H	11	0.74	0.2	0.81
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	11	0.7	0.3	0.89
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	11	0.7	0.3	0.89
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD13	11	0.66	0.42	0.57
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD11	11	0.66	0.42	0.57
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD12	11	0.66	0.42	0.57
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD13	11	0.65	0.43	0.54
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD11	11	0.65	0.43	0.54
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD12	11	0.65	0.43	0.54
(1,4603)	1:12:A:PHE:HE1	1:113:B:SER:HA	11	0.61	0.45	0.46
(1,4603)	1:12:A:PHE:HE2	1:113:B:SER:HA	11	0.61	0.45	0.46
(1,4604)	1:12:B:PHE:HE1	1:113:A:SER:HA	11	0.6	0.46	0.46
(1,4604)	1:12:B:PHE:HE2	1:113:A:SER:HA	11	0.6	0.46	0.46
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	11	0.56	0.28	0.66
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	11	0.56	0.28	0.66
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD22	11	0.51	0.34	0.47
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD23	11	0.51	0.34	0.47
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD21	11	0.51	0.34	0.47
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD22	11	0.51	0.34	0.47
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD23	11	0.51	0.34	0.47

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD21	11	0.51	0.34	0.47
(1,1881)	1:112:A:LEU:HD21	1:71:A:ILE:HA	11	0.44	0.27	0.34
(1,1881)	1:112:A:LEU:HD22	1:71:A:ILE:HA	11	0.44	0.27	0.34
(1,1881)	1:112:A:LEU:HD23	1:71:A:ILE:HA	11	0.44	0.27	0.34
(1,1882)	1:112:B:LEU:HD21	1:71:B:ILE:HA	11	0.44	0.27	0.34
(1,1882)	1:112:B:LEU:HD22	1:71:B:ILE:HA	11	0.44	0.27	0.34
(1,1882)	1:112:B:LEU:HD23	1:71:B:ILE:HA	11	0.44	0.27	0.34
(1,1704)	1:20:B:VAL:HG12	1:55:B:GLU:HG2	11	0.37	0.21	0.27
(1,1704)	1:20:B:VAL:HG13	1:55:B:GLU:HG2	11	0.37	0.21	0.27
(1,1704)	1:20:B:VAL:HG11	1:55:B:GLU:HG2	11	0.37	0.21	0.27
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG13	11	0.37	0.19	0.3
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG12	11	0.37	0.19	0.3
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG11	11	0.37	0.19	0.3
(1,1703)	1:20:A:VAL:HG12	1:55:A:GLU:HG2	11	0.36	0.22	0.26
(1,1703)	1:20:A:VAL:HG13	1:55:A:GLU:HG2	11	0.36	0.22	0.26
(1,1703)	1:20:A:VAL:HG11	1:55:A:GLU:HG2	11	0.36	0.22	0.26
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	11	0.27	0.09	0.26
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	11	0.27	0.09	0.25
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	11	0.23	0.07	0.25
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	11	0.23	0.07	0.25
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	11	0.12	0.0	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	11	0.12	0.0	0.12
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG12	11	0.1	0.01	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG13	11	0.1	0.01	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG11	11	0.1	0.01	0.1
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	10	2.28	1.25	2.06
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	10	2.28	1.25	2.06
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD12	10	1.73	1.53	1.29
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD13	10	1.73	1.53	1.29
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD11	10	1.73	1.53	1.29
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD12	10	1.72	1.53	1.29
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD13	10	1.72	1.53	1.29
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD11	10	1.72	1.53	1.29
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	10	1.38	0.35	1.4
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	10	1.38	0.35	1.4
(1,2539)	1:87:A:VAL:HG12	1:53:A:PHE:HD1	10	1.02	0.56	1.06
(1,2539)	1:87:A:VAL:HG13	1:53:A:PHE:HD1	10	1.02	0.56	1.06
(1,2539)	1:87:A:VAL:HG11	1:53:A:PHE:HD1	10	1.02	0.56	1.06
(1,2540)	1:87:B:VAL:HG12	1:53:B:PHE:HD1	10	1.02	0.56	1.06
(1,2540)	1:87:B:VAL:HG13	1:53:B:PHE:HD1	10	1.02	0.56	1.06
(1,2540)	1:87:B:VAL:HG11	1:53:B:PHE:HD1	10	1.02	0.56	1.06
(1,1795)	1:9:A:MET:HE3	1:7:A:PHE:HD1	10	1.0	0.46	0.92

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1795)	1:9:A:MET:HE2	1:7:A:PHE:HD1	10	1.0	0.46	0.92
(1,1795)	1:9:A:MET:HE1	1:7:A:PHE:HD1	10	1.0	0.46	0.92
(1,1796)	1:9:B:MET:HE3	1:7:B:PHE:HD1	10	1.0	0.46	0.92
(1,1796)	1:9:B:MET:HE2	1:7:B:PHE:HD1	10	1.0	0.46	0.92
(1,1796)	1:9:B:MET:HE1	1:7:B:PHE:HD1	10	1.0	0.46	0.92
(1,825)	1:14:A:VAL:HG12	1:15:A:CYS:HB3	10	0.71	0.51	0.74
(1,825)	1:14:A:VAL:HG11	1:15:A:CYS:HB3	10	0.71	0.51	0.74
(1,825)	1:14:A:VAL:HG13	1:15:A:CYS:HB3	10	0.71	0.51	0.74
(1,826)	1:14:B:VAL:HG12	1:15:B:CYS:HB3	10	0.71	0.51	0.74
(1,826)	1:14:B:VAL:HG11	1:15:B:CYS:HB3	10	0.71	0.51	0.74
(1,826)	1:14:B:VAL:HG13	1:15:B:CYS:HB3	10	0.71	0.51	0.74
(1,1838)	1:38:B:VAL:HG11	1:25:B:LYS:H	10	0.67	0.45	0.64
(1,1838)	1:38:B:VAL:HG13	1:25:B:LYS:H	10	0.67	0.45	0.64
(1,1838)	1:38:B:VAL:HG12	1:25:B:LYS:H	10	0.67	0.45	0.64
(1,1837)	1:38:A:VAL:HG11	1:25:A:LYS:H	10	0.67	0.45	0.64
(1,1837)	1:38:A:VAL:HG13	1:25:A:LYS:H	10	0.67	0.45	0.64
(1,1837)	1:38:A:VAL:HG12	1:25:A:LYS:H	10	0.67	0.45	0.64
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	10	0.66	0.19	0.66
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	10	0.66	0.18	0.67
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	10	0.49	0.06	0.49
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	10	0.49	0.06	0.48
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG21	10	0.46	0.59	0.2
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG23	10	0.46	0.59	0.2
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG22	10	0.46	0.59	0.2
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG21	10	0.46	0.59	0.2
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG23	10	0.46	0.59	0.2
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG22	10	0.46	0.59	0.2
(1,918)	1:22:B:VAL:HG21	1:20:B:VAL:HB	10	0.29	0.13	0.32
(1,918)	1:22:B:VAL:HG23	1:20:B:VAL:HB	10	0.29	0.13	0.32
(1,918)	1:22:B:VAL:HG22	1:20:B:VAL:HB	10	0.29	0.13	0.32
(1,917)	1:22:A:VAL:HG21	1:20:A:VAL:HB	10	0.29	0.13	0.32
(1,917)	1:22:A:VAL:HG23	1:20:A:VAL:HB	10	0.29	0.13	0.32
(1,917)	1:22:A:VAL:HG22	1:20:A:VAL:HB	10	0.29	0.13	0.32
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	10	0.22	0.11	0.2
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	10	0.22	0.11	0.2
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	10	0.21	0.05	0.2
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	10	0.21	0.05	0.19
(1,1267)	1:64:A:VAL:HG12	1:69:A:ARG:HG2	9	0.93	0.88	0.44
(1,1267)	1:64:A:VAL:HG11	1:69:A:ARG:HG2	9	0.93	0.88	0.44
(1,1267)	1:64:A:VAL:HG13	1:69:A:ARG:HG2	9	0.93	0.88	0.44
(1,1268)	1:64:B:VAL:HG12	1:69:B:ARG:HG2	9	0.93	0.88	0.44
(1,1268)	1:64:B:VAL:HG11	1:69:B:ARG:HG2	9	0.93	0.88	0.44

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1268)	1:64:B:VAL:HG13	1:69:B:ARG:HG2	9	0.93	0.88	0.44
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	9	0.9	0.41	0.97
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	9	0.9	0.41	0.97
(1,2922)	1:106:B:THR:HG23	1:106:B:THR:H	9	0.88	0.07	0.87
(1,2922)	1:106:B:THR:HG22	1:106:B:THR:H	9	0.88	0.07	0.87
(1,2922)	1:106:B:THR:HG21	1:106:B:THR:H	9	0.88	0.07	0.87
(1,2921)	1:106:A:THR:HG23	1:106:A:THR:H	9	0.88	0.08	0.88
(1,2921)	1:106:A:THR:HG22	1:106:A:THR:H	9	0.88	0.08	0.88
(1,2921)	1:106:A:THR:HG21	1:106:A:THR:H	9	0.88	0.08	0.88
(1,4288)	1:106:B:THR:HG22	1:85:B:THR:H	9	0.79	0.45	0.66
(1,4288)	1:106:B:THR:HG21	1:85:B:THR:H	9	0.79	0.45	0.66
(1,4288)	1:106:B:THR:HG23	1:85:B:THR:H	9	0.79	0.45	0.66
(1,4287)	1:106:A:THR:HG22	1:85:A:THR:H	9	0.78	0.45	0.66
(1,4287)	1:106:A:THR:HG21	1:85:A:THR:H	9	0.78	0.45	0.66
(1,4287)	1:106:A:THR:HG23	1:85:A:THR:H	9	0.78	0.45	0.66
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	9	0.45	0.31	0.38
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	9	0.45	0.31	0.37
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	9	0.35	0.22	0.22
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	9	0.35	0.22	0.22
(1,4418)	1:112:B:LEU:HD13	1:76:B:TRP:HE1	9	0.2	0.09	0.16
(1,4418)	1:112:B:LEU:HD11	1:76:B:TRP:HE1	9	0.2	0.09	0.16
(1,4418)	1:112:B:LEU:HD12	1:76:B:TRP:HE1	9	0.2	0.09	0.16
(1,2359)	1:39:A:LEU:HD13	1:98:A:ALA:H	9	0.2	0.1	0.17
(1,2359)	1:39:A:LEU:HD11	1:98:A:ALA:H	9	0.2	0.1	0.17
(1,2359)	1:39:A:LEU:HD12	1:98:A:ALA:H	9	0.2	0.1	0.17
(1,2360)	1:39:B:LEU:HD13	1:98:B:ALA:H	9	0.2	0.1	0.16
(1,2360)	1:39:B:LEU:HD11	1:98:B:ALA:H	9	0.2	0.1	0.16
(1,2360)	1:39:B:LEU:HD12	1:98:B:ALA:H	9	0.2	0.1	0.16
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	9	0.17	0.04	0.17
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	9	0.14	0.02	0.15
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	9	0.14	0.02	0.15
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG13	9	0.1	0.01	0.1
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG12	9	0.1	0.01	0.1
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG11	9	0.1	0.01	0.1
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD11	8	1.48	1.89	0.88
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD13	8	1.48	1.89	0.88
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD12	8	1.48	1.89	0.88
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD11	8	1.48	1.89	0.87
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD13	8	1.48	1.89	0.87
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD12	8	1.48	1.89	0.87
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	8	1.26	0.71	1.26
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	8	1.25	0.71	1.25

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG12	8	0.98	0.46	0.92
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG11	8	0.98	0.46	0.92
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG13	8	0.98	0.46	0.92
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG12	8	0.98	0.46	0.92
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG11	8	0.98	0.46	0.92
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG13	8	0.98	0.46	0.92
(1,2505)	1:111:A:VAL:HG12	1:79:A:TYR:HE1	8	0.83	0.33	0.79
(1,2505)	1:111:A:VAL:HG13	1:79:A:TYR:HE1	8	0.83	0.33	0.79
(1,2505)	1:111:A:VAL:HG11	1:79:A:TYR:HE1	8	0.83	0.33	0.79
(1,2506)	1:111:B:VAL:HG12	1:79:B:TYR:HE1	8	0.83	0.33	0.78
(1,2506)	1:111:B:VAL:HG13	1:79:B:TYR:HE1	8	0.83	0.33	0.78
(1,2506)	1:111:B:VAL:HG11	1:79:B:TYR:HE1	8	0.83	0.33	0.78
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	8	0.77	0.06	0.76
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	8	0.77	0.07	0.76
(1,3806)	1:36:B:VAL:HG22	1:93:B:ASP:H	8	0.76	0.55	0.6
(1,3806)	1:36:B:VAL:HG21	1:93:B:ASP:H	8	0.76	0.55	0.6
(1,3806)	1:36:B:VAL:HG23	1:93:B:ASP:H	8	0.76	0.55	0.6
(1,3805)	1:36:A:VAL:HG22	1:93:A:ASP:H	8	0.76	0.55	0.6
(1,3805)	1:36:A:VAL:HG21	1:93:A:ASP:H	8	0.76	0.55	0.6
(1,3805)	1:36:A:VAL:HG23	1:93:A:ASP:H	8	0.76	0.55	0.6
(1,3228)	1:83:B:THR:HG21	1:83:B:THR:H	8	0.73	0.03	0.74
(1,3228)	1:83:B:THR:HG23	1:83:B:THR:H	8	0.73	0.03	0.74
(1,3228)	1:83:B:THR:HG22	1:83:B:THR:H	8	0.73	0.03	0.74
(1,3227)	1:83:A:THR:HG21	1:83:A:THR:H	8	0.73	0.03	0.74
(1,3227)	1:83:A:THR:HG23	1:83:A:THR:H	8	0.73	0.03	0.74
(1,3227)	1:83:A:THR:HG22	1:83:A:THR:H	8	0.73	0.03	0.74
(1,383)	1:6:A:VAL:HG11	1:10:A:GLY:HA2	8	0.66	0.39	0.62
(1,383)	1:6:A:VAL:HG13	1:10:A:GLY:HA2	8	0.66	0.39	0.62
(1,383)	1:6:A:VAL:HG12	1:10:A:GLY:HA2	8	0.66	0.39	0.62
(1,384)	1:6:B:VAL:HG11	1:10:B:GLY:HA2	8	0.66	0.39	0.62
(1,384)	1:6:B:VAL:HG13	1:10:B:GLY:HA2	8	0.66	0.39	0.62
(1,384)	1:6:B:VAL:HG12	1:10:B:GLY:HA2	8	0.66	0.39	0.62
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	8	0.54	0.49	0.34
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	8	0.53	0.23	0.6
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	8	0.53	0.23	0.6
(1,887)	1:36:A:VAL:HG13	1:30:A:ASP:HA	8	0.49	0.37	0.36
(1,887)	1:36:A:VAL:HG12	1:30:A:ASP:HA	8	0.49	0.37	0.36
(1,887)	1:36:A:VAL:HG11	1:30:A:ASP:HA	8	0.49	0.37	0.36
(1,888)	1:36:B:VAL:HG13	1:30:B:ASP:HA	8	0.49	0.37	0.36
(1,888)	1:36:B:VAL:HG12	1:30:B:ASP:HA	8	0.49	0.37	0.36
(1,888)	1:36:B:VAL:HG11	1:30:B:ASP:HA	8	0.49	0.37	0.36
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	8	0.32	0.0	0.32

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	8	0.32	0.0	0.32
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	8	0.28	0.12	0.3
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	8	0.28	0.12	0.29
(1,1048)	1:90:B:LEU:HD23	1:97:B:ALA:HB1	8	0.23	0.09	0.21
(1,1048)	1:90:B:LEU:HD22	1:97:B:ALA:HB1	8	0.23	0.09	0.21
(1,1048)	1:90:B:LEU:HD21	1:97:B:ALA:HB1	8	0.23	0.09	0.21
(1,1048)	1:90:B:LEU:HD22	1:97:B:ALA:HB2	8	0.23	0.09	0.21
(1,1048)	1:90:B:LEU:HD23	1:97:B:ALA:HB2	8	0.23	0.09	0.21
(1,1048)	1:90:B:LEU:HD21	1:97:B:ALA:HB3	8	0.23	0.09	0.21
(1,1047)	1:90:A:LEU:HD23	1:97:A:ALA:HB1	8	0.23	0.09	0.2
(1,1047)	1:90:A:LEU:HD22	1:97:A:ALA:HB1	8	0.23	0.09	0.2
(1,1047)	1:90:A:LEU:HD21	1:97:A:ALA:HB1	8	0.23	0.09	0.2
(1,1047)	1:90:A:LEU:HD22	1:97:A:ALA:HB2	8	0.23	0.09	0.2
(1,1047)	1:90:A:LEU:HD23	1:97:A:ALA:HB2	8	0.23	0.09	0.2
(1,1047)	1:90:A:LEU:HD21	1:97:A:ALA:HB3	8	0.23	0.09	0.2
(1,4417)	1:112:A:LEU:HD13	1:76:A:TRP:HE1	8	0.22	0.08	0.18
(1,4417)	1:112:A:LEU:HD11	1:76:A:TRP:HE1	8	0.22	0.08	0.18
(1,4417)	1:112:A:LEU:HD12	1:76:A:TRP:HE1	8	0.22	0.08	0.18
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	8	0.18	0.02	0.18
(1,1060)	1:6:B:VAL:HG12	1:12:B:PHE:HE1	7	2.33	1.35	2.04
(1,1060)	1:6:B:VAL:HG13	1:12:B:PHE:HE1	7	2.33	1.35	2.04
(1,1059)	1:6:A:VAL:HG12	1:12:A:PHE:HE1	7	2.33	1.36	2.04
(1,1059)	1:6:A:VAL:HG13	1:12:A:PHE:HE1	7	2.33	1.36	2.04
(1,870)	1:18:B:VAL:HG11	1:59:B:ARG:HG3	7	1.72	0.28	1.67
(1,870)	1:18:B:VAL:HG13	1:59:B:ARG:HG3	7	1.72	0.28	1.67
(1,870)	1:18:B:VAL:HG12	1:59:B:ARG:HG3	7	1.72	0.28	1.67
(1,869)	1:18:A:VAL:HG11	1:59:A:ARG:HG3	7	1.72	0.29	1.67
(1,869)	1:18:A:VAL:HG13	1:59:A:ARG:HG3	7	1.72	0.29	1.67
(1,869)	1:18:A:VAL:HG12	1:59:A:ARG:HG3	7	1.72	0.29	1.67
(1,2503)	1:111:A:VAL:HG23	1:79:A:TYR:HE1	7	1.23	0.31	1.37
(1,2503)	1:111:A:VAL:HG21	1:79:A:TYR:HE1	7	1.23	0.31	1.37
(1,2504)	1:111:B:VAL:HG23	1:79:B:TYR:HE1	7	1.23	0.32	1.37
(1,2504)	1:111:B:VAL:HG21	1:79:B:TYR:HE1	7	1.23	0.32	1.37
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD21	7	0.91	0.76	0.65
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD23	7	0.91	0.76	0.65
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD22	7	0.91	0.76	0.65
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD21	7	0.91	0.76	0.66
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD23	7	0.91	0.76	0.66
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD22	7	0.91	0.76	0.66
(1,126)	1:115:B:LYS:HE2	1:115:B:LYS:HB3	7	0.85	0.14	0.81
(1,125)	1:115:A:LYS:HE2	1:115:A:LYS:HB3	7	0.85	0.14	0.81
(1,2164)	1:59:B:ARG:HG3	1:18:B:VAL:H	7	0.74	0.27	0.77

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2163)	1:59:A:ARG:HG3	1:18:A:VAL:H	7	0.74	0.27	0.77
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG23	7	0.7	0.72	0.49
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG21	7	0.7	0.72	0.49
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG22	7	0.7	0.72	0.49
(1,4606)	1:13:B:SER:H	1:111:A:VAL:HA	7	0.61	0.5	0.36
(1,2406)	1:34:B:LYS:HG3	1:34:B:LYS:HE3	7	0.59	0.37	0.9
(1,2405)	1:34:A:LYS:HG3	1:34:A:LYS:HE3	7	0.59	0.37	0.9
(1,4453)	1:82:A:THR:HG21	1:107:A:ALA:H	7	0.52	0.6	0.33
(1,4453)	1:82:A:THR:HG22	1:107:A:ALA:H	7	0.52	0.6	0.33
(1,4454)	1:82:B:THR:HG21	1:107:B:ALA:H	7	0.52	0.6	0.33
(1,4454)	1:82:B:THR:HG22	1:107:B:ALA:H	7	0.52	0.6	0.33
(1,345)	1:118:A:ARG:HG3	1:118:A:ARG:HB2	7	0.49	0.01	0.5
(1,346)	1:118:B:ARG:HG3	1:118:B:ARG:HB2	7	0.49	0.01	0.5
(1,800)	1:90:B:LEU:HD21	1:42:B:VAL:HG23	7	0.42	0.14	0.36
(1,800)	1:90:B:LEU:HD23	1:42:B:VAL:HG22	7	0.42	0.14	0.36
(1,800)	1:90:B:LEU:HD23	1:42:B:VAL:HG23	7	0.42	0.14	0.36
(1,800)	1:90:B:LEU:HD22	1:42:B:VAL:HG22	7	0.42	0.14	0.36
(1,800)	1:90:B:LEU:HD23	1:42:B:VAL:HG21	7	0.42	0.14	0.36
(1,841)	1:95:A:LYS:HD2	1:95:A:LYS:HE3	7	0.42	0.27	0.66
(1,799)	1:90:A:LEU:HD21	1:42:A:VAL:HG23	7	0.42	0.14	0.36
(1,799)	1:90:A:LEU:HD23	1:42:A:VAL:HG22	7	0.42	0.14	0.36
(1,799)	1:90:A:LEU:HD23	1:42:A:VAL:HG23	7	0.42	0.14	0.36
(1,799)	1:90:A:LEU:HD22	1:42:A:VAL:HG22	7	0.42	0.14	0.36
(1,799)	1:90:A:LEU:HD23	1:42:A:VAL:HG21	7	0.42	0.14	0.36
(1,3879)	1:22:A:VAL:H	1:53:A:PHE:HB3	7	0.18	0.07	0.17
(1,3880)	1:22:B:VAL:H	1:53:B:PHE:HB3	7	0.18	0.07	0.17
(1,1293)	1:102:A:ILE:HD13	1:25:A:LYS:HE3	6	1.96	1.12	1.83
(1,1293)	1:102:A:ILE:HD12	1:25:A:LYS:HE3	6	1.96	1.12	1.83
(1,1293)	1:102:A:ILE:HD11	1:25:A:LYS:HE3	6	1.96	1.12	1.83
(1,1294)	1:102:B:ILE:HD13	1:25:B:LYS:HE3	6	1.96	1.12	1.83
(1,1294)	1:102:B:ILE:HD12	1:25:B:LYS:HE3	6	1.96	1.12	1.83
(1,1294)	1:102:B:ILE:HD11	1:25:B:LYS:HE3	6	1.96	1.12	1.83
(1,4590)	1:9:B:MET:HB3	1:113:A:SER:HB3	6	1.96	2.13	0.67
(1,4590)	1:9:B:MET:HB2	1:113:A:SER:HB2	6	1.96	2.13	0.67
(1,4590)	1:9:B:MET:HB2	1:113:A:SER:HB3	6	1.96	2.13	0.67
(1,4589)	1:9:A:MET:HB3	1:113:B:SER:HB3	6	1.94	2.16	0.6
(1,4589)	1:9:A:MET:HB2	1:113:B:SER:HB2	6	1.94	2.16	0.6
(1,4589)	1:9:A:MET:HB2	1:113:B:SER:HB3	6	1.94	2.16	0.6
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD13	6	1.27	2.22	0.24
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD12	6	1.27	2.22	0.24
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD11	6	1.27	2.22	0.24
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD13	6	1.26	2.22	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD12	6	1.26	2.22	0.24
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD11	6	1.26	2.22	0.24
(1,4623)	1:44:A:ILE:HD12	1:99:B:TRP:HD1	6	1.18	0.92	0.84
(1,4623)	1:44:A:ILE:HD11	1:99:B:TRP:HD1	6	1.18	0.92	0.84
(1,4623)	1:44:A:ILE:HD13	1:99:B:TRP:HD1	6	1.18	0.92	0.84
(1,4624)	1:44:B:ILE:HD12	1:99:A:TRP:HD1	6	1.16	0.9	0.84
(1,4624)	1:44:B:ILE:HD11	1:99:A:TRP:HD1	6	1.16	0.9	0.84
(1,4624)	1:44:B:ILE:HD13	1:99:A:TRP:HD1	6	1.16	0.9	0.84
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG23	6	0.8	0.73	0.5
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG21	6	0.8	0.73	0.5
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG22	6	0.8	0.73	0.5
(3,1)	1:9:A:MET:HE3	1:8:A:HIS:HB2	6	0.68	0.24	0.66
(3,1)	1:9:A:MET:HE2	1:8:A:HIS:HB2	6	0.68	0.24	0.66
(3,1)	1:9:A:MET:HE1	1:7:A:PHE:HB3	6	0.68	0.24	0.66
(3,1)	1:9:A:MET:HE1	1:8:A:HIS:HB2	6	0.68	0.24	0.66
(3,2)	1:9:B:MET:HE3	1:8:B:HIS:HB2	6	0.68	0.24	0.66
(3,2)	1:9:B:MET:HE2	1:8:B:HIS:HB2	6	0.68	0.24	0.66
(3,2)	1:9:B:MET:HE1	1:7:B:PHE:HB3	6	0.68	0.24	0.66
(3,2)	1:9:B:MET:HE1	1:8:B:HIS:HB2	6	0.68	0.24	0.66
(1,842)	1:95:B:LYS:HD2	1:95:B:LYS:HE3	6	0.48	0.26	0.66
(1,2169)	1:112:A:LEU:HD21	1:71:A:ILE:HB	6	0.46	0.42	0.29
(1,2169)	1:112:A:LEU:HD22	1:71:A:ILE:HB	6	0.46	0.42	0.29
(1,2169)	1:112:A:LEU:HD23	1:71:A:ILE:HB	6	0.46	0.42	0.29
(1,2170)	1:112:B:LEU:HD21	1:71:B:ILE:HB	6	0.46	0.42	0.29
(1,2170)	1:112:B:LEU:HD22	1:71:B:ILE:HB	6	0.46	0.42	0.29
(1,2170)	1:112:B:LEU:HD23	1:71:B:ILE:HB	6	0.46	0.42	0.29
(2,26)	1:49:B:PHE:H	1:44:B:ILE:HB	6	0.42	0.32	0.26
(2,25)	1:49:A:PHE:H	1:44:A:ILE:HB	6	0.42	0.31	0.27
(1,3765)	1:56:A:THR:HG23	1:18:A:VAL:H	6	0.3	0.21	0.24
(1,3765)	1:56:A:THR:HG22	1:18:A:VAL:H	6	0.3	0.21	0.24
(1,3765)	1:56:A:THR:HG21	1:18:A:VAL:H	6	0.3	0.21	0.24
(1,3766)	1:56:B:THR:HG23	1:18:B:VAL:H	6	0.3	0.21	0.24
(1,3766)	1:56:B:THR:HG22	1:18:B:VAL:H	6	0.3	0.21	0.24
(1,3766)	1:56:B:THR:HG21	1:18:B:VAL:H	6	0.3	0.21	0.24
(1,976)	1:18:B:VAL:HG13	1:57:B:LYS:HE2	6	0.3	0.09	0.34
(1,976)	1:18:B:VAL:HG12	1:57:B:LYS:HE2	6	0.3	0.09	0.34
(1,976)	1:18:B:VAL:HG11	1:57:B:LYS:HE2	6	0.3	0.09	0.34
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD13	6	0.3	0.17	0.26
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD11	6	0.3	0.17	0.26
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD12	6	0.3	0.17	0.26
(1,975)	1:18:A:VAL:HG13	1:57:A:LYS:HE2	6	0.3	0.1	0.34
(1,975)	1:18:A:VAL:HG12	1:57:A:LYS:HE2	6	0.3	0.1	0.34

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,975)	1:18:A:VAL:HG11	1:57:A:LYS:HE2	6	0.3	0.1	0.34
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD13	6	0.29	0.17	0.25
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD11	6	0.29	0.17	0.25
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD12	6	0.29	0.17	0.25
(1,1693)	1:35:A:GLU:HG3	1:27:A:THR:HG21	6	0.28	0.14	0.3
(1,1693)	1:35:A:GLU:HG3	1:27:A:THR:HG22	6	0.28	0.14	0.3
(1,1694)	1:35:B:GLU:HG3	1:27:B:THR:HG21	6	0.28	0.14	0.3
(1,1694)	1:35:B:GLU:HG3	1:27:B:THR:HG22	6	0.28	0.14	0.3
(1,2695)	1:86:A:PHE:HZ	1:103:A:ARG:HB3	6	0.27	0.18	0.23
(1,4625)	1:86:A:PHE:H	1:54:B:PHE:HD2	6	0.25	0.15	0.19
(1,4625)	1:86:A:PHE:H	1:54:B:PHE:HD1	6	0.25	0.15	0.19
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB1	6	0.19	0.07	0.16
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB2	6	0.19	0.07	0.16
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB3	6	0.19	0.07	0.16
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB1	6	0.19	0.07	0.16
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB2	6	0.19	0.07	0.16
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB3	6	0.19	0.07	0.16
(1,2191)	1:42:A:VAL:HG11	1:99:A:TRP:HZ3	5	1.33	1.51	1.03
(1,2191)	1:42:A:VAL:HG12	1:99:A:TRP:HZ3	5	1.33	1.51	1.03
(1,2192)	1:42:B:VAL:HG11	1:99:B:TRP:HZ3	5	1.33	1.51	1.03
(1,2192)	1:42:B:VAL:HG12	1:99:B:TRP:HZ3	5	1.33	1.51	1.03
(1,1021)	1:115:A:LYS:HG2	1:76:A:TRP:HA	5	1.01	0.89	0.53
(1,1022)	1:115:B:LYS:HG2	1:76:B:TRP:HA	5	1.01	0.89	0.53
(1,4179)	1:117:A:THR:HB	1:118:A:ARG:H	5	0.95	0.61	1.24
(1,4637)	1:70:A:GLY:H	1:76:B:TRP:HE1	5	0.91	0.39	0.96
(1,4638)	1:70:B:GLY:H	1:76:A:TRP:HE1	5	0.91	0.39	0.97
(1,2923)	1:59:A:ARG:H	1:16:A:ASP:HB2	5	0.88	0.4	0.97
(1,2924)	1:59:B:ARG:H	1:16:B:ASP:HB2	5	0.88	0.4	0.97
(1,1793)	1:9:A:MET:HE1	1:6:A:VAL:HB	5	0.65	0.41	0.8
(1,1793)	1:9:A:MET:HE3	1:6:A:VAL:HB	5	0.65	0.41	0.8
(1,1793)	1:9:A:MET:HE2	1:6:A:VAL:HB	5	0.65	0.41	0.8
(1,1794)	1:9:B:MET:HE1	1:6:B:VAL:HB	5	0.64	0.42	0.81
(1,1794)	1:9:B:MET:HE3	1:6:B:VAL:HB	5	0.64	0.42	0.81
(1,1794)	1:9:B:MET:HE2	1:6:B:VAL:HB	5	0.64	0.42	0.81
(1,651)	1:9:A:MET:HG2	1:9:A:MET:HE2	5	0.55	0.0	0.55
(1,651)	1:9:A:MET:HG2	1:9:A:MET:HE1	5	0.55	0.0	0.55
(1,651)	1:9:A:MET:HG2	1:9:A:MET:HE3	5	0.55	0.0	0.55
(1,652)	1:9:B:MET:HG2	1:9:B:MET:HE2	5	0.55	0.01	0.55
(1,652)	1:9:B:MET:HG2	1:9:B:MET:HE1	5	0.55	0.01	0.55
(1,652)	1:9:B:MET:HG2	1:9:B:MET:HE3	5	0.55	0.01	0.55
(1,2662)	1:6:B:VAL:HG12	1:4:B:HIS:HD2	5	0.44	0.32	0.27
(1,2662)	1:6:B:VAL:HG13	1:4:B:HIS:HD2	5	0.44	0.32	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2661)	1:6:A:VAL:HG12	1:4:A:HIS:HD2	5	0.43	0.32	0.26
(1,2661)	1:6:A:VAL:HG13	1:4:A:HIS:HD2	5	0.43	0.32	0.26
(1,1435)	1:22:A:VAL:HG13	1:53:A:PHE:HD1	5	0.42	0.08	0.38
(1,1436)	1:22:B:VAL:HG13	1:53:B:PHE:HD1	5	0.42	0.08	0.38
(1,1197)	1:112:A:LEU:HD11	1:76:A:TRP:HB2	5	0.4	0.25	0.34
(1,1197)	1:112:A:LEU:HD13	1:76:A:TRP:HB2	5	0.4	0.25	0.34
(1,1198)	1:112:B:LEU:HD11	1:76:B:TRP:HB2	5	0.4	0.25	0.34
(1,1198)	1:112:B:LEU:HD13	1:76:B:TRP:HB2	5	0.4	0.25	0.34
(1,4626)	1:86:B:PHE:H	1:54:A:PHE:HD2	5	0.3	0.14	0.23
(1,2696)	1:86:B:PHE:HZ	1:103:B:ARG:HB3	5	0.3	0.18	0.23
(1,4421)	1:76:A:TRP:HE1	1:112:A:LEU:HD23	5	0.29	0.15	0.24
(1,4421)	1:76:A:TRP:HE1	1:112:A:LEU:HD21	5	0.29	0.15	0.24
(1,4422)	1:76:B:TRP:HE1	1:112:B:LEU:HD23	5	0.29	0.15	0.23
(1,4422)	1:76:B:TRP:HE1	1:112:B:LEU:HD21	5	0.29	0.15	0.23
(3,13)	1:85:A:THR:HG21	1:105:A:ASP:HB2	5	0.29	0.13	0.22
(3,13)	1:85:A:THR:HG23	1:105:A:ASP:HB2	5	0.29	0.13	0.22
(3,14)	1:85:B:THR:HG21	1:105:B:ASP:HB2	5	0.29	0.13	0.21
(3,14)	1:85:B:THR:HG23	1:105:B:ASP:HB2	5	0.29	0.13	0.21
(1,2487)	1:86:A:PHE:HD1	1:103:A:ARG:HG3	5	0.27	0.08	0.25
(1,2488)	1:86:B:PHE:HD1	1:103:B:ARG:HG3	5	0.26	0.08	0.25
(1,3619)	1:84:A:HIS:HB2	1:85:A:THR:H	5	0.2	0.05	0.21
(1,3221)	1:67:A:GLY:HA2	1:68:A:CYS:H	5	0.18	0.03	0.19
(1,3222)	1:67:B:GLY:HA2	1:68:B:CYS:H	5	0.18	0.03	0.19
(1,1298)	1:102:B:ILE:HD12	1:87:B:VAL:HG23	5	0.15	0.03	0.14
(1,1298)	1:102:B:ILE:HD13	1:87:B:VAL:HG21	5	0.15	0.03	0.14
(1,1298)	1:102:B:ILE:HD13	1:87:B:VAL:HG23	5	0.15	0.03	0.14
(1,1297)	1:102:A:ILE:HD12	1:87:A:VAL:HG23	5	0.15	0.03	0.14
(1,1297)	1:102:A:ILE:HD13	1:87:A:VAL:HG21	5	0.15	0.03	0.14
(1,1297)	1:102:A:ILE:HD13	1:87:A:VAL:HG23	5	0.15	0.03	0.14
(1,3731)	1:11:A:GLU:H	1:11:A:GLU:HB2	5	0.15	0.02	0.16
(1,3732)	1:11:B:GLU:H	1:11:B:GLU:HB2	5	0.15	0.02	0.16
(1,2599)	1:44:A:ILE:HB	1:49:A:PHE:HD1	4	1.26	0.54	1.29
(1,2600)	1:44:B:ILE:HB	1:49:B:PHE:HD1	4	1.26	0.54	1.29
(1,4180)	1:117:B:THR:HB	1:118:B:ARG:H	4	1.16	0.5	1.34
(1,1983)	1:8:A:HIS:HB3	1:5:A:PRO:HB3	4	1.13	0.65	1.18
(1,1984)	1:8:B:HIS:HB3	1:5:B:PRO:HB3	4	1.12	0.65	1.18
(1,4197)	1:115:A:LYS:HD3	1:77:A:ASN:H	4	1.08	0.34	1.0
(1,4198)	1:115:B:LYS:HD3	1:77:B:ASN:H	4	1.08	0.34	1.0
(1,3428)	1:57:B:LYS:HB3	1:58:B:CYS:H	4	0.94	0.03	0.94
(1,3427)	1:57:A:LYS:HB3	1:58:A:CYS:H	4	0.94	0.03	0.94
(1,1019)	1:115:A:LYS:HG2	1:77:A:ASN:H	4	0.91	0.75	0.78
(1,1020)	1:115:B:LYS:HG2	1:77:B:ASN:H	4	0.91	0.75	0.78

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4116)	1:72:B:ASP:H	1:76:B:TRP:HE1	4	0.84	0.31	0.96
(1,4115)	1:72:A:ASP:H	1:76:A:TRP:HE1	4	0.84	0.32	0.96
(1,2545)	1:87:A:VAL:HB	1:53:A:PHE:HD1	4	0.78	0.44	0.78
(1,2546)	1:87:B:VAL:HB	1:53:B:PHE:HD1	4	0.78	0.45	0.78
(1,3083)	1:26:A:THR:HG23	1:27:A:THR:H	4	0.71	0.33	0.87
(1,3083)	1:26:A:THR:HG21	1:27:A:THR:H	4	0.71	0.33	0.87
(1,1347)	1:57:A:LYS:HG2	1:57:A:LYS:HE3	4	0.71	0.23	0.84
(1,1348)	1:57:B:LYS:HG2	1:57:B:LYS:HE3	4	0.71	0.23	0.84
(1,3084)	1:26:B:THR:HG23	1:27:B:THR:H	4	0.71	0.33	0.87
(1,3084)	1:26:B:THR:HG21	1:27:B:THR:H	4	0.71	0.33	0.87
(1,3420)	1:110:B:CYS:HB3	1:15:B:CYS:H	4	0.71	0.13	0.77
(1,3419)	1:110:A:CYS:HB3	1:15:A:CYS:H	4	0.7	0.13	0.76
(1,3853)	1:73:A:SER:H	1:74:A:LYS:H	4	0.62	0.03	0.62
(1,3854)	1:73:B:SER:H	1:74:B:LYS:H	4	0.62	0.03	0.62
(1,4153)	1:72:A:ASP:HA	1:74:A:LYS:H	4	0.52	0.09	0.55
(1,4154)	1:72:B:ASP:HA	1:74:B:LYS:H	4	0.52	0.09	0.55
(1,4240)	1:75:B:HIS:H	1:115:B:LYS:HB3	4	0.52	0.39	0.38
(1,4239)	1:75:A:HIS:H	1:115:A:LYS:HB3	4	0.52	0.4	0.38
(1,3763)	1:18:A:VAL:H	1:57:A:LYS:HB2	4	0.49	0.06	0.5
(1,3764)	1:18:B:VAL:H	1:57:B:LYS:HB2	4	0.49	0.06	0.5
(1,3351)	1:22:A:VAL:HG13	1:25:A:LYS:H	4	0.46	0.4	0.27
(1,3351)	1:22:A:VAL:HG12	1:25:A:LYS:H	4	0.46	0.4	0.27
(1,3352)	1:22:B:VAL:HG13	1:25:B:LYS:H	4	0.46	0.4	0.26
(1,3352)	1:22:B:VAL:HG12	1:25:B:LYS:H	4	0.46	0.4	0.26
(1,1809)	1:32:A:LYS:HG2	1:32:A:LYS:HE2	4	0.38	0.03	0.37
(1,1810)	1:32:B:LYS:HG2	1:32:B:LYS:HE2	4	0.37	0.03	0.36
(1,2809)	1:39:A:LEU:HD23	1:92:A:THR:H	4	0.37	0.18	0.34
(1,2809)	1:39:A:LEU:HD22	1:92:A:THR:H	4	0.37	0.18	0.34
(1,2809)	1:39:A:LEU:HD21	1:92:A:THR:H	4	0.37	0.18	0.34
(1,2810)	1:39:B:LEU:HD23	1:92:B:THR:H	4	0.37	0.18	0.34
(1,2810)	1:39:B:LEU:HD22	1:92:B:THR:H	4	0.37	0.18	0.34
(1,2810)	1:39:B:LEU:HD21	1:92:B:THR:H	4	0.37	0.18	0.34
(2,36)	1:103:B:ARG:H	1:104:B:ILE:HG12	4	0.34	0.3	0.2
(2,35)	1:103:A:ARG:H	1:104:A:ILE:HG12	4	0.34	0.3	0.2
(1,1870)	1:76:B:TRP:HB2	1:112:B:LEU:HD23	4	0.32	0.18	0.32
(1,1870)	1:76:B:TRP:HB2	1:112:B:LEU:HD22	4	0.32	0.18	0.32
(1,1870)	1:76:B:TRP:HB2	1:112:B:LEU:HD21	4	0.32	0.18	0.32
(1,1869)	1:76:A:TRP:HB2	1:112:A:LEU:HD23	4	0.32	0.19	0.32
(1,1869)	1:76:A:TRP:HB2	1:112:A:LEU:HD22	4	0.32	0.19	0.32
(1,1869)	1:76:A:TRP:HB2	1:112:A:LEU:HD21	4	0.32	0.19	0.32
(1,4251)	1:6:A:VAL:HA	1:7:A:PHE:H	4	0.29	0.09	0.27
(1,4252)	1:6:B:VAL:HA	1:7:B:PHE:H	4	0.29	0.09	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,3639)	1:96:A:GLN:HE21	1:96:A:GLN:HA	4	0.23	0.08	0.19
(1,3640)	1:96:B:GLN:HE21	1:96:B:GLN:HA	4	0.23	0.08	0.18
(1,3363)	1:97:A:ALA:HB1	1:98:A:ALA:H	4	0.22	0.08	0.22
(1,3363)	1:97:A:ALA:HB3	1:98:A:ALA:H	4	0.22	0.08	0.22
(1,3363)	1:97:A:ALA:HB2	1:98:A:ALA:H	4	0.22	0.08	0.22
(1,3364)	1:97:B:ALA:HB1	1:98:B:ALA:H	4	0.22	0.08	0.2
(1,3364)	1:97:B:ALA:HB3	1:98:B:ALA:H	4	0.22	0.08	0.2
(1,3364)	1:97:B:ALA:HB2	1:98:B:ALA:H	4	0.22	0.08	0.2
(1,3620)	1:84:B:HIS:HB2	1:85:B:THR:H	4	0.22	0.02	0.22
(1,2803)	1:92:A:THR:H	1:37:A:THR:HB	4	0.21	0.06	0.18
(1,2804)	1:92:B:THR:H	1:37:B:THR:HB	4	0.2	0.06	0.18
(1,4269)	1:34:A:LYS:HB2	1:35:A:GLU:H	4	0.18	0.04	0.16
(1,4270)	1:34:B:LYS:HB2	1:35:B:GLU:H	4	0.18	0.04	0.16
(1,4439)	1:66:A:SER:H	1:67:A:GLY:H	4	0.18	0.05	0.17
(1,4440)	1:66:B:SER:H	1:67:B:GLY:H	4	0.17	0.06	0.16
(1,3833)	1:57:A:LYS:HG3	1:57:A:LYS:H	4	0.14	0.01	0.14
(1,3834)	1:57:B:LYS:HG3	1:57:B:LYS:H	4	0.14	0.01	0.14
(1,4094)	1:47:B:SER:H	1:44:B:ILE:HD11	4	0.13	0.03	0.12
(1,4094)	1:47:B:SER:H	1:44:B:ILE:HD12	4	0.13	0.03	0.12
(1,4094)	1:47:B:SER:H	1:44:B:ILE:HD13	4	0.13	0.03	0.12
(1,1905)	1:57:A:LYS:HG3	1:57:A:LYS:HD2	4	0.13	0.0	0.13
(1,1906)	1:57:B:LYS:HG3	1:57:B:LYS:HD2	4	0.13	0.0	0.13
(1,2791)	1:76:A:TRP:HB3	1:76:A:TRP:H	4	0.12	0.01	0.12
(1,2792)	1:76:B:TRP:HB3	1:76:B:TRP:H	4	0.12	0.01	0.12
(1,4621)	1:44:A:ILE:HG21	1:99:B:TRP:HE1	3	2.68	2.21	1.76
(1,4621)	1:44:A:ILE:HG23	1:99:B:TRP:HE1	3	2.68	2.21	1.76
(1,4621)	1:44:A:ILE:HG22	1:99:B:TRP:HE1	3	2.68	2.21	1.76
(1,4622)	1:44:B:ILE:HG21	1:99:A:TRP:HE1	3	2.66	2.2	1.77
(1,4622)	1:44:B:ILE:HG23	1:99:A:TRP:HE1	3	2.66	2.2	1.77
(1,4622)	1:44:B:ILE:HG22	1:99:A:TRP:HE1	3	2.66	2.2	1.77
(1,2843)	1:64:A:VAL:HG21	1:67:A:GLY:H	3	2.24	1.4	2.89
(1,2843)	1:64:A:VAL:HG23	1:67:A:GLY:H	3	2.24	1.4	2.89
(1,2844)	1:64:B:VAL:HG21	1:67:B:GLY:H	3	2.24	1.4	2.87
(1,2844)	1:64:B:VAL:HG23	1:67:B:GLY:H	3	2.24	1.4	2.87
(1,2045)	1:64:A:VAL:HG21	1:66:A:SER:HB3	3	1.99	0.97	2.06
(1,2045)	1:64:A:VAL:HG22	1:66:A:SER:HB3	3	1.99	0.97	2.06
(1,2046)	1:64:B:VAL:HG21	1:66:B:SER:HB3	3	1.99	0.97	2.06
(1,2046)	1:64:B:VAL:HG22	1:66:B:SER:HB3	3	1.99	0.97	2.06
(1,2603)	1:44:A:ILE:HD11	1:49:A:PHE:HD1	3	1.56	0.72	1.46
(1,2603)	1:44:A:ILE:HD12	1:49:A:PHE:HD1	3	1.56	0.72	1.46
(1,2604)	1:44:B:ILE:HD11	1:49:B:PHE:HD1	3	1.55	0.72	1.46
(1,2604)	1:44:B:ILE:HD12	1:49:B:PHE:HD1	3	1.55	0.72	1.46

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4643)	1:85:A:THR:HG21	1:106:B:THR:HG21	3	1.25	1.12	0.6
(1,4643)	1:85:A:THR:HG21	1:106:B:THR:HG23	3	1.25	1.12	0.6
(1,4643)	1:85:A:THR:HG22	1:106:B:THR:HG22	3	1.25	1.12	0.6
(1,4644)	1:85:B:THR:HG21	1:106:A:THR:HG21	3	1.25	1.14	0.57
(1,4644)	1:85:B:THR:HG21	1:106:A:THR:HG23	3	1.25	1.14	0.57
(1,4644)	1:85:B:THR:HG22	1:106:A:THR:HG22	3	1.25	1.14	0.57
(2,24)	1:49:B:PHE:HD1	1:44:B:ILE:H	3	0.99	0.72	0.7
(2,23)	1:49:A:PHE:HD1	1:44:A:ILE:H	3	0.99	0.72	0.7
(1,2043)	1:69:A:ARG:HA	1:64:A:VAL:HG21	3	0.85	0.87	0.27
(1,2043)	1:69:A:ARG:HA	1:64:A:VAL:HG23	3	0.85	0.87	0.27
(1,2044)	1:69:B:ARG:HA	1:64:B:VAL:HG21	3	0.85	0.87	0.27
(1,2044)	1:69:B:ARG:HA	1:64:B:VAL:HG23	3	0.85	0.87	0.27
(1,4083)	1:43:A:ASN:HA	1:47:A:SER:H	3	0.75	0.53	0.71
(1,1982)	1:8:B:HIS:HB2	1:5:B:PRO:HB3	3	0.74	0.3	0.8
(1,1981)	1:8:A:HIS:HB2	1:5:A:PRO:HB3	3	0.73	0.3	0.8
(1,3964)	1:11:B:GLU:HG2	1:11:B:GLU:H	3	0.65	0.44	0.57
(1,3963)	1:11:A:GLU:HG2	1:11:A:GLU:H	3	0.65	0.44	0.57
(1,607)	1:32:A:LYS:HG3	1:31:A:ILE:HG21	3	0.61	0.68	0.15
(1,607)	1:32:A:LYS:HG3	1:31:A:ILE:HG23	3	0.61	0.68	0.15
(1,607)	1:32:A:LYS:HG3	1:31:A:ILE:HG22	3	0.61	0.68	0.15
(1,608)	1:32:B:LYS:HG3	1:31:B:ILE:HG21	3	0.61	0.68	0.15
(1,608)	1:32:B:LYS:HG3	1:31:B:ILE:HG23	3	0.61	0.68	0.15
(1,608)	1:32:B:LYS:HG3	1:31:B:ILE:HG22	3	0.61	0.68	0.15
(1,2067)	1:44:A:ILE:HB	1:47:A:SER:HB2	3	0.56	0.34	0.63
(1,2068)	1:44:B:ILE:HB	1:47:B:SER:HB2	3	0.56	0.34	0.64
(1,4389)	1:82:A:THR:HG23	1:82:A:THR:H	3	0.51	0.03	0.53
(1,4389)	1:82:A:THR:HG22	1:82:A:THR:H	3	0.51	0.03	0.53
(1,4389)	1:82:A:THR:HG21	1:82:A:THR:H	3	0.51	0.03	0.53
(1,4390)	1:82:B:THR:HG23	1:82:B:THR:H	3	0.51	0.04	0.54
(1,4390)	1:82:B:THR:HG22	1:82:B:THR:H	3	0.51	0.04	0.54
(1,4390)	1:82:B:THR:HG21	1:82:B:THR:H	3	0.51	0.04	0.54
(1,3857)	1:72:A:ASP:HA	1:73:A:SER:H	3	0.47	0.04	0.48
(1,3858)	1:72:B:ASP:HA	1:73:B:SER:H	3	0.47	0.04	0.48
(1,2409)	1:34:A:LYS:HB2	1:34:A:LYS:HE3	3	0.46	0.0	0.46
(1,2410)	1:34:B:LYS:HB2	1:34:B:LYS:HE3	3	0.46	0.0	0.46
(1,1057)	1:6:A:VAL:HG12	1:9:A:MET:H	3	0.41	0.18	0.33
(1,1057)	1:6:A:VAL:HG13	1:9:A:MET:H	3	0.41	0.18	0.33
(1,1057)	1:6:A:VAL:HG11	1:9:A:MET:H	3	0.41	0.18	0.33
(1,1058)	1:6:B:VAL:HG12	1:9:B:MET:H	3	0.4	0.18	0.33
(1,1058)	1:6:B:VAL:HG13	1:9:B:MET:H	3	0.4	0.18	0.33
(1,1058)	1:6:B:VAL:HG11	1:9:B:MET:H	3	0.4	0.18	0.33
(1,4001)	1:44:A:ILE:HG13	1:44:A:ILE:H	3	0.38	0.22	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4002)	1:44:B:ILE:HG13	1:44:B:ILE:H	3	0.38	0.22	0.27
(1,3582)	1:76:B:TRP:HE1	1:75:B:HIS:HB3	3	0.38	0.17	0.43
(1,3581)	1:76:A:TRP:HE1	1:75:A:HIS:HB3	3	0.37	0.17	0.44
(1,2450)	1:41:B:GLU:HG2	1:50:B:ARG:HD2	3	0.37	0.12	0.37
(1,2449)	1:41:A:GLU:HG2	1:50:A:ARG:HD2	3	0.36	0.11	0.37
(1,2717)	1:42:A:VAL:HG12	1:99:A:TRP:HZ2	3	0.35	0.19	0.27
(1,2717)	1:42:A:VAL:HG11	1:99:A:TRP:HZ2	3	0.35	0.19	0.27
(1,2718)	1:42:B:VAL:HG12	1:99:B:TRP:HZ2	3	0.35	0.19	0.28
(1,2718)	1:42:B:VAL:HG11	1:99:B:TRP:HZ2	3	0.35	0.19	0.28
(1,3358)	1:24:B:ASP:H	1:25:B:LYS:H	3	0.34	0.23	0.23
(1,3357)	1:24:A:ASP:H	1:25:A:LYS:H	3	0.33	0.22	0.22
(1,1695)	1:35:A:GLU:HG3	1:35:A:GLU:HB2	3	0.28	0.01	0.29
(1,1696)	1:35:B:GLU:HG3	1:35:B:GLU:HB2	3	0.28	0.01	0.29
(1,4452)	1:107:B:ALA:H	1:83:B:THR:HA	3	0.28	0.11	0.21
(1,4451)	1:107:A:ALA:H	1:83:A:THR:HA	3	0.27	0.1	0.21
(1,4186)	1:40:B:ALA:HB3	1:41:B:GLU:H	3	0.25	0.1	0.23
(1,4186)	1:40:B:ALA:HB1	1:41:B:GLU:H	3	0.25	0.1	0.23
(1,4185)	1:40:A:ALA:HB3	1:41:A:GLU:H	3	0.25	0.1	0.22
(1,4185)	1:40:A:ALA:HB1	1:41:A:GLU:H	3	0.25	0.1	0.22
(1,2825)	1:42:A:VAL:HG23	1:43:A:ASN:H	3	0.23	0.03	0.23
(1,2825)	1:42:A:VAL:HG21	1:43:A:ASN:H	3	0.23	0.03	0.23
(1,2826)	1:42:B:VAL:HG23	1:43:B:ASN:H	3	0.23	0.03	0.23
(1,2826)	1:42:B:VAL:HG21	1:43:B:ASN:H	3	0.23	0.03	0.23
(1,3035)	1:53:A:PHE:H	1:21:A:TRP:HB2	3	0.23	0.02	0.24
(1,3036)	1:53:B:PHE:H	1:21:B:TRP:HB2	3	0.23	0.02	0.23
(1,3375)	1:88:A:LYS:HG2	1:88:A:LYS:H	3	0.2	0.02	0.2
(1,3376)	1:88:B:LYS:HG2	1:88:B:LYS:H	3	0.2	0.02	0.2
(1,4268)	1:34:B:LYS:HG3	1:35:B:GLU:H	3	0.2	0.06	0.2
(1,3480)	1:109:B:VAL:HG21	1:111:B:VAL:H	3	0.19	0.08	0.16
(1,3480)	1:109:B:VAL:HG23	1:111:B:VAL:H	3	0.19	0.08	0.16
(1,4267)	1:34:A:LYS:HG3	1:35:A:GLU:H	3	0.19	0.07	0.19
(1,3479)	1:109:A:VAL:HG21	1:111:A:VAL:H	3	0.19	0.08	0.15
(1,3479)	1:109:A:VAL:HG23	1:111:A:VAL:H	3	0.19	0.08	0.15
(1,3941)	1:109:A:VAL:HG21	1:81:A:THR:H	3	0.16	0.04	0.16
(1,3941)	1:109:A:VAL:HG22	1:81:A:THR:H	3	0.16	0.04	0.16
(1,3942)	1:109:B:VAL:HG21	1:81:B:THR:H	3	0.16	0.04	0.15
(1,3942)	1:109:B:VAL:HG22	1:81:B:THR:H	3	0.16	0.04	0.15
(1,4093)	1:47:A:SER:H	1:44:A:ILE:HD11	3	0.15	0.03	0.13
(1,4093)	1:47:A:SER:H	1:44:A:ILE:HD12	3	0.15	0.03	0.13
(1,4093)	1:47:A:SER:H	1:44:A:ILE:HD13	3	0.15	0.03	0.13
(1,2845)	1:113:A:SER:H	1:76:A:TRP:HE1	3	0.14	0.04	0.11
(1,2846)	1:113:B:SER:H	1:76:B:TRP:HE1	3	0.14	0.03	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,2139)	1:111:A:VAL:HG23	1:62:A:ASN:HD22	2	5.26	0.64	5.26
(1,2139)	1:111:A:VAL:HG22	1:62:A:ASN:HD22	2	5.26	0.64	5.26
(1,2140)	1:111:B:VAL:HG23	1:62:B:ASN:HD22	2	5.25	0.65	5.25
(1,2140)	1:111:B:VAL:HG22	1:62:B:ASN:HD22	2	5.25	0.65	5.25
(1,3777)	1:69:A:ARG:H	1:63:A:PRO:HG2	2	4.42	0.87	4.42
(1,3778)	1:69:B:ARG:H	1:63:B:PRO:HG2	2	4.42	0.87	4.42
(1,4008)	1:47:B:SER:HB2	1:44:B:ILE:H	2	2.45	0.78	2.45
(1,4007)	1:47:A:SER:HB2	1:44:A:ILE:H	2	2.44	0.78	2.44
(1,3930)	1:71:B:ILE:HG21	1:68:B:CYS:H	2	1.58	0.49	1.58
(1,3930)	1:71:B:ILE:HG22	1:68:B:CYS:H	2	1.58	0.49	1.58
(1,3929)	1:71:A:ILE:HG21	1:68:A:CYS:H	2	1.58	0.49	1.58
(1,3929)	1:71:A:ILE:HG22	1:68:A:CYS:H	2	1.58	0.49	1.58
(1,4084)	1:43:B:ASN:HA	1:47:B:SER:H	2	1.07	0.36	1.07
(1,2395)	1:44:A:ILE:HG12	1:44:A:ILE:HG23	2	1.04	0.01	1.04
(1,2396)	1:44:B:ILE:HG12	1:44:B:ILE:HG23	2	1.04	0.01	1.04
(1,1399)	1:67:A:GLY:HA2	1:64:A:VAL:HG21	2	1.0	0.06	1.0
(1,1399)	1:67:A:GLY:HA2	1:64:A:VAL:HG23	2	1.0	0.06	1.0
(1,1400)	1:67:B:GLY:HA2	1:64:B:VAL:HG21	2	1.0	0.06	1.0
(1,1400)	1:67:B:GLY:HA2	1:64:B:VAL:HG23	2	1.0	0.06	1.0
(1,2351)	1:62:A:ASN:HB2	1:65:A:GLU:HA	2	0.94	0.4	0.94
(1,2352)	1:62:B:ASN:HB2	1:65:B:GLU:HA	2	0.94	0.4	0.94
(1,2874)	1:50:B:ARG:HG3	1:50:B:ARG:H	2	0.89	0.01	0.89
(1,2873)	1:50:A:ARG:HG3	1:50:A:ARG:H	2	0.88	0.02	0.88
(1,4133)	1:58:A:CYS:H	1:82:A:THR:H	2	0.86	0.05	0.86
(1,4134)	1:58:B:CYS:H	1:82:B:THR:H	2	0.86	0.04	0.86
(1,3789)	1:64:A:VAL:HG22	1:69:A:ARG:H	2	0.78	0.23	0.78
(1,3789)	1:64:A:VAL:HG23	1:69:A:ARG:H	2	0.78	0.23	0.78
(1,3790)	1:64:B:VAL:HG22	1:69:B:ARG:H	2	0.78	0.23	0.78
(1,3790)	1:64:B:VAL:HG23	1:69:B:ARG:H	2	0.78	0.23	0.78
(1,2257)	1:59:A:ARG:HA	1:16:A:ASP:HB2	2	0.74	0.01	0.74
(1,2258)	1:59:B:ARG:HA	1:16:B:ASP:HB2	2	0.74	0.01	0.74
(1,4375)	1:76:A:TRP:H	1:73:A:SER:HA	2	0.62	0.48	0.62
(1,4376)	1:76:B:TRP:H	1:73:B:SER:HA	2	0.62	0.48	0.62
(1,4424)	1:76:B:TRP:HE1	1:71:B:ILE:HG22	2	0.6	0.04	0.6
(1,4423)	1:76:A:TRP:HE1	1:71:A:ILE:HG22	2	0.6	0.04	0.6
(1,1635)	1:35:A:GLU:HG2	1:27:A:THR:HG23	2	0.58	0.18	0.58
(1,1635)	1:35:A:GLU:HG2	1:27:A:THR:HG22	2	0.58	0.18	0.58
(1,4525)	1:45:A:ASN:HD21	1:44:A:ILE:HG22	2	0.58	0.02	0.58
(1,4525)	1:45:A:ASN:HD21	1:44:A:ILE:HG21	2	0.58	0.02	0.58
(1,4526)	1:45:B:ASN:HD21	1:44:B:ILE:HG22	2	0.58	0.02	0.58
(1,4526)	1:45:B:ASN:HD21	1:44:B:ILE:HG21	2	0.58	0.02	0.58
(1,1636)	1:35:B:GLU:HG2	1:27:B:THR:HG23	2	0.57	0.18	0.57

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1636)	1:35:B:GLU:HG2	1:27:B:THR:HG22	2	0.57	0.18	0.57
(1,4635)	1:70:A:GLY:HA3	1:76:B:TRP:HE1	2	0.52	0.4	0.52
(1,4635)	1:70:A:GLY:HA2	1:76:B:TRP:HE1	2	0.52	0.4	0.52
(1,4636)	1:70:B:GLY:HA3	1:76:A:TRP:HE1	2	0.52	0.41	0.52
(1,4636)	1:70:B:GLY:HA2	1:76:A:TRP:HE1	2	0.52	0.41	0.52
(1,1125)	1:69:A:ARG:HD2	1:64:A:VAL:HG21	2	0.5	0.24	0.5
(1,1125)	1:69:A:ARG:HD2	1:64:A:VAL:HG23	2	0.5	0.24	0.5
(1,1126)	1:69:B:ARG:HD2	1:64:B:VAL:HG21	2	0.5	0.24	0.5
(1,1126)	1:69:B:ARG:HD2	1:64:B:VAL:HG23	2	0.5	0.24	0.5
(1,1643)	1:43:A:ASN:HB3	1:48:A:VAL:HG22	2	0.43	0.13	0.43
(1,1643)	1:43:A:ASN:HB3	1:48:A:VAL:HG21	2	0.43	0.13	0.43
(1,1644)	1:43:B:ASN:HB3	1:48:B:VAL:HG22	2	0.43	0.13	0.43
(1,1644)	1:43:B:ASN:HB3	1:48:B:VAL:HG21	2	0.43	0.13	0.43
(1,4601)	1:12:A:PHE:HB3	1:112:B:LEU:HG	2	0.4	0.0	0.4
(1,627)	1:64:A:VAL:HG21	1:62:A:ASN:H	2	0.38	0.22	0.38
(1,627)	1:64:A:VAL:HG22	1:62:A:ASN:H	2	0.38	0.22	0.38
(1,628)	1:64:B:VAL:HG21	1:62:B:ASN:H	2	0.38	0.22	0.38
(1,628)	1:64:B:VAL:HG22	1:62:B:ASN:H	2	0.38	0.22	0.38
(1,801)	1:90:A:LEU:HD22	1:39:A:LEU:HD11	2	0.38	0.24	0.38
(1,801)	1:90:A:LEU:HD21	1:39:A:LEU:HD13	2	0.38	0.24	0.38
(1,802)	1:90:B:LEU:HD22	1:39:B:LEU:HD11	2	0.37	0.24	0.37
(1,802)	1:90:B:LEU:HD21	1:39:B:LEU:HD13	2	0.37	0.24	0.37
(1,4491)	1:40:A:ALA:HB3	1:40:A:ALA:H	2	0.37	0.02	0.37
(1,4492)	1:40:B:ALA:HB3	1:40:B:ALA:H	2	0.36	0.02	0.36
(1,4602)	1:12:B:PHE:HB3	1:112:A:LEU:HG	2	0.36	0.02	0.36
(1,4338)	1:25:B:LYS:H	1:23:B:GLY:HA3	2	0.34	0.03	0.34
(1,4337)	1:25:A:LYS:H	1:23:A:GLY:HA3	2	0.34	0.02	0.34
(1,823)	1:14:A:VAL:HG13	1:69:A:ARG:H	2	0.28	0.01	0.28
(1,823)	1:14:A:VAL:HG12	1:69:A:ARG:H	2	0.28	0.01	0.28
(1,824)	1:14:B:VAL:HG13	1:69:B:ARG:H	2	0.28	0.01	0.28
(1,824)	1:14:B:VAL:HG12	1:69:B:ARG:H	2	0.28	0.01	0.28
(1,1200)	1:112:B:LEU:HD13	1:76:B:TRP:HZ2	2	0.24	0.14	0.24
(1,1200)	1:112:B:LEU:HD12	1:76:B:TRP:HZ2	2	0.24	0.14	0.24
(1,1755)	1:39:A:LEU:HG	1:37:A:THR:HA	2	0.22	0.12	0.22
(1,1756)	1:39:B:LEU:HG	1:37:B:THR:HA	2	0.22	0.12	0.22
(1,2541)	1:22:A:VAL:HG23	1:53:A:PHE:HD1	2	0.19	0.01	0.19
(1,2541)	1:22:A:VAL:HG21	1:53:A:PHE:HD1	2	0.19	0.01	0.19
(1,2542)	1:22:B:VAL:HG23	1:53:B:PHE:HD1	2	0.19	0.01	0.19
(1,2542)	1:22:B:VAL:HG21	1:53:B:PHE:HD1	2	0.19	0.01	0.19
(1,2925)	1:59:A:ARG:HG3	1:59:A:ARG:H	2	0.19	0.07	0.19
(1,2926)	1:59:B:ARG:HG3	1:59:B:ARG:H	2	0.18	0.06	0.18
(1,950)	1:22:B:VAL:HB	1:20:B:VAL:HG13	2	0.16	0.02	0.16

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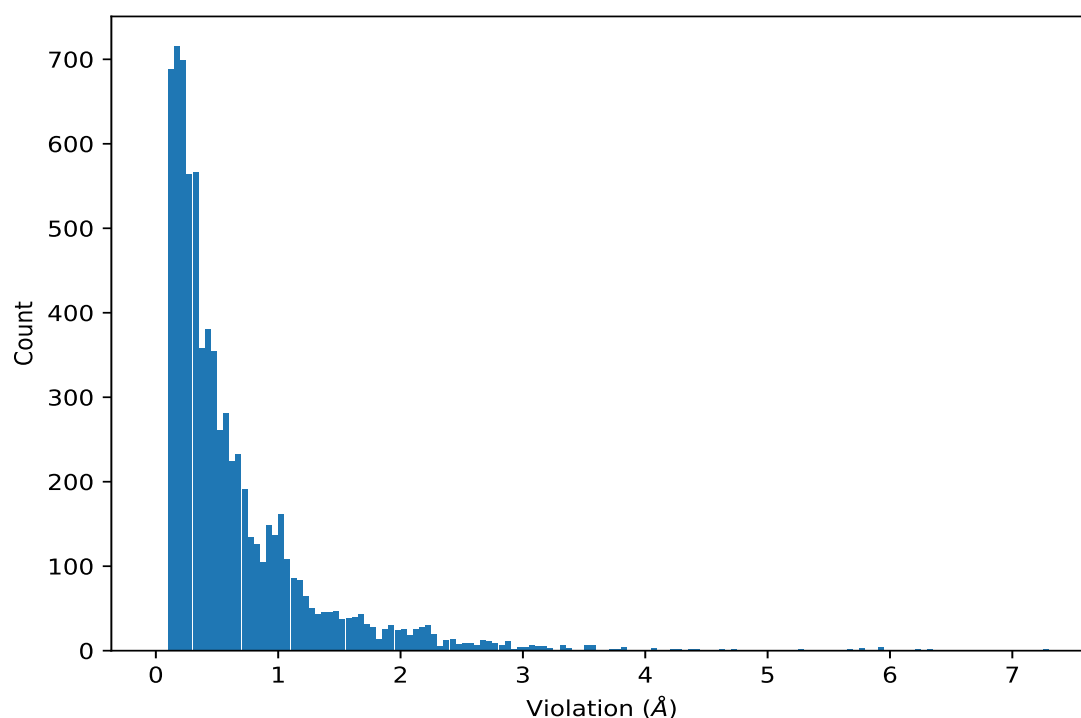
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,950)	1:22:B:VAL:HB	1:20:B:VAL:HG12	2	0.16	0.02	0.16
(1,949)	1:22:A:VAL:HB	1:20:A:VAL:HG13	2	0.16	0.02	0.16
(1,949)	1:22:A:VAL:HB	1:20:A:VAL:HG12	2	0.16	0.02	0.16
(1,553)	1:104:A:ILE:HD11	1:87:A:VAL:HB	2	0.14	0.01	0.14
(1,553)	1:104:A:ILE:HD12	1:87:A:VAL:HB	2	0.14	0.01	0.14
(1,554)	1:104:B:ILE:HD11	1:87:B:VAL:HB	2	0.14	0.01	0.14
(1,554)	1:104:B:ILE:HD12	1:87:B:VAL:HB	2	0.14	0.01	0.14
(2,33)	1:79:A:TYR:HB3	1:78:A:SER:H	2	0.13	0.01	0.13
(2,34)	1:79:B:TYR:HB3	1:78:B:SER:H	2	0.13	0.01	0.13
(1,983)	1:44:A:ILE:HB	1:44:A:ILE:HD12	2	0.12	0.01	0.12
(1,983)	1:44:A:ILE:HB	1:44:A:ILE:HD13	2	0.12	0.01	0.12
(1,984)	1:44:B:ILE:HB	1:44:B:ILE:HD12	2	0.12	0.01	0.12
(1,984)	1:44:B:ILE:HB	1:44:B:ILE:HD13	2	0.12	0.01	0.12
(1,1531)	1:83:A:THR:HA	1:83:A:THR:HG21	2	0.12	0.0	0.12
(1,1531)	1:83:A:THR:HA	1:83:A:THR:HG23	2	0.12	0.0	0.12
(1,1532)	1:83:B:THR:HA	1:83:B:THR:HG21	2	0.11	0.0	0.11
(1,1532)	1:83:B:THR:HA	1:83:B:THR:HG23	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



9.5.2 Table : All distance violations [i](#)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4619)	1:44:A:ILE:HG23	1:99:B:TRP:HZ2	6	7.27
(1,4620)	1:44:B:ILE:HG23	1:99:A:TRP:HZ2	6	7.25
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG22	1	6.67
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG22	1	6.63
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD13	2	6.34
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD13	2	6.33
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD13	2	6.23
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD13	2	6.23
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD12	2	5.91
(1,2140)	1:111:B:VAL:HG23	1:62:B:ASN:HD22	2	5.9
(1,2139)	1:111:A:VAL:HG23	1:62:A:ASN:HD22	2	5.9
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD12	2	5.9
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	2	5.78
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	2	5.77
(1,4589)	1:9:A:MET:HB3	1:113:B:SER:HB3	8	5.75
(1,4621)	1:44:A:ILE:HG23	1:99:B:TRP:HE1	6	5.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4622)	1:44:B:ILE:HG23	1:99:A:TRP:HE1	6	5.69
(1,4590)	1:9:B:MET:HB3	1:113:A:SER:HB3	8	5.67
(1,3778)	1:69:B:ARG:H	1:63:B:PRO:HG2	14	5.28
(1,3777)	1:69:A:ARG:H	1:63:A:PRO:HG2	14	5.28
(1,1060)	1:6:B:VAL:HG13	1:12:B:PHE:HE1	5	4.74
(1,1059)	1:6:A:VAL:HG13	1:12:A:PHE:HE1	5	4.74
(1,2139)	1:111:A:VAL:HG22	1:62:A:ASN:HD22	14	4.61
(1,2140)	1:111:B:VAL:HG22	1:62:B:ASN:HD22	14	4.6
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	11	4.41
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	11	4.4
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	3	4.39
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	3	4.39
(1,2192)	1:42:B:VAL:HG11	1:99:B:TRP:HZ3	7	4.25
(1,2191)	1:42:A:VAL:HG11	1:99:A:TRP:HZ3	7	4.25
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG22	14	4.24
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG22	14	4.24
(1,4590)	1:9:B:MET:HB3	1:113:A:SER:HB3	6	4.1
(1,1294)	1:102:B:ILE:HD11	1:25:B:LYS:HE3	14	4.07
(1,1293)	1:102:A:ILE:HD11	1:25:A:LYS:HE3	14	4.07
(1,4589)	1:9:A:MET:HB3	1:113:B:SER:HB3	6	4.06
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	14	3.84
(1,1060)	1:6:B:VAL:HG12	1:12:B:PHE:HE1	9	3.84
(1,1059)	1:6:A:VAL:HG12	1:12:A:PHE:HE1	9	3.84
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	14	3.83
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	15	3.76
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	15	3.75
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	15	3.71
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	15	3.71
(1,2608)	1:42:B:VAL:HG21	1:49:B:PHE:HD1	2	3.59
(1,2607)	1:42:A:VAL:HG21	1:49:A:PHE:HD1	2	3.59
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG23	10	3.55
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG23	10	3.55
(1,3778)	1:69:B:ARG:H	1:63:B:PRO:HG2	2	3.55
(1,3777)	1:69:A:ARG:H	1:63:A:PRO:HG2	2	3.55
(1,2712)	1:76:B:TRP:HZ3	1:114:B:ARG:H	16	3.55
(1,4593)	1:9:B:MET:HE3	1:118:A:ARG:HB2	15	3.54
(1,4591)	1:9:A:MET:HE3	1:118:B:ARG:HB2	15	3.54
(1,2844)	1:64:B:VAL:HG23	1:67:B:GLY:H	14	3.54
(1,2843)	1:64:A:VAL:HG23	1:67:A:GLY:H	14	3.54
(1,2711)	1:76:A:TRP:HZ3	1:114:A:ARG:H	16	3.54
(1,4587)	1:9:B:MET:HE3	1:118:A:ARG:HG2	14	3.53
(1,4594)	1:9:B:MET:HE2	1:118:A:ARG:HB3	6	3.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4585)	1:9:A:MET:HE3	1:118:B:ARG:HG2	14	3.42
(1,4592)	1:9:A:MET:HE2	1:118:B:ARG:HB3	6	3.39
(1,1792)	1:9:B:MET:HE2	1:6:B:VAL:HG22	2	3.38
(1,1791)	1:9:A:MET:HE2	1:6:A:VAL:HG22	2	3.38
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	6	3.33
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	6	3.33
(1,4593)	1:9:B:MET:HE3	1:118:A:ARG:HB2	7	3.33
(1,4591)	1:9:A:MET:HE3	1:118:B:ARG:HB2	7	3.33
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	19	3.33
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	19	3.32
(1,4008)	1:47:B:SER:HB2	1:44:B:ILE:H	2	3.23
(1,4007)	1:47:A:SER:HB2	1:44:A:ILE:H	2	3.22
(1,4588)	1:9:B:MET:HE3	1:118:A:ARG:HG3	14	3.21
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	12	3.19
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	12	3.17
(1,4623)	1:44:A:ILE:HD12	1:99:B:TRP:HD1	6	3.17
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	7	3.15
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	7	3.15
(1,2046)	1:64:B:VAL:HG22	1:66:B:SER:HB3	14	3.14
(1,2045)	1:64:A:VAL:HG22	1:66:A:SER:HB3	14	3.14
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG21	8	3.13
(1,4624)	1:44:B:ILE:HD12	1:99:A:TRP:HD1	6	3.11
(1,4586)	1:9:A:MET:HE3	1:118:B:ARG:HG3	14	3.11
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG23	15	3.08
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG23	15	3.08
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG21	8	3.08
(1,4592)	1:9:A:MET:HE3	1:118:B:ARG:HB3	15	3.07
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	15	3.07
(1,4594)	1:9:B:MET:HE3	1:118:A:ARG:HB3	15	3.06
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	15	3.06
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG22	18	3.04
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG22	18	3.03
(1,4594)	1:9:B:MET:HE1	1:118:A:ARG:HB3	1	3.03
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	2	3.0
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	2	2.99
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	1	2.97
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	20	2.97
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	20	2.97
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	12	2.91
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	12	2.9
(1,2843)	1:64:A:VAL:HG21	1:67:A:GLY:H	2	2.89
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	9	2.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	9	2.87
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	2	2.87
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	2	2.87
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	3	2.87
(1,2844)	1:64:B:VAL:HG21	1:67:B:GLY:H	2	2.87
(1,4644)	1:85:B:THR:HG21	1:106:A:THR:HG21	1	2.86
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	3	2.86
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	4	2.85
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	4	2.85
(1,4593)	1:9:B:MET:HE2	1:118:A:ARG:HB2	14	2.84
(1,4593)	1:9:B:MET:HE3	1:118:A:ARG:HB2	13	2.83
(1,4592)	1:9:A:MET:HE1	1:118:B:ARG:HB3	8	2.83
(1,4643)	1:85:A:THR:HG21	1:106:B:THR:HG21	1	2.82
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	15	2.82
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	15	2.82
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG23	11	2.79
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	13	2.79
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	13	2.79
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	17	2.79
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	17	2.79
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG23	11	2.78
(1,4592)	1:9:A:MET:HE1	1:118:B:ARG:HB3	1	2.78
(1,4591)	1:9:A:MET:HE3	1:118:B:ARG:HB2	13	2.76
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG23	5	2.75
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG23	5	2.74
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	4	2.74
(1,4591)	1:9:A:MET:HE2	1:118:B:ARG:HB2	14	2.73
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	17	2.73
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	4	2.73
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	17	2.72
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG12	18	2.72
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG12	18	2.72
(1,4594)	1:9:B:MET:HE1	1:118:A:ARG:HB3	8	2.71
(1,4586)	1:9:A:MET:HE1	1:118:B:ARG:HG3	1	2.71
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD11	15	2.7
(1,4587)	1:9:B:MET:HE2	1:118:A:ARG:HG2	6	2.68
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	12	2.68
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	17	2.68
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	17	2.68
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD11	15	2.67
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	12	2.67
(1,2284)	1:42:B:VAL:HG23	1:99:B:TRP:HZ3	7	2.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2283)	1:42:A:VAL:HG23	1:99:A:TRP:HZ3	7	2.67
(1,1022)	1:115:B:LYS:HG2	1:76:B:TRP:HA	15	2.67
(1,1021)	1:115:A:LYS:HG2	1:76:A:TRP:HA	15	2.67
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	19	2.65
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	19	2.65
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	20	2.64
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	20	2.64
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	18	2.64
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	18	2.64
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	10	2.62
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	10	2.62
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD13	20	2.6
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD13	20	2.59
(1,4620)	1:44:B:ILE:HG22	1:99:A:TRP:HZ2	3	2.58
(1,4619)	1:44:A:ILE:HG22	1:99:B:TRP:HZ2	3	2.58
(1,1684)	1:8:B:HIS:HB3	1:11:B:GLU:HB2	8	2.58
(1,1683)	1:8:A:HIS:HB3	1:11:A:GLU:HB2	8	2.58
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	13	2.56
(1,4594)	1:9:B:MET:HE2	1:118:A:ARG:HB3	17	2.56
(1,4594)	1:9:B:MET:HE3	1:118:A:ARG:HB3	13	2.55
(1,4592)	1:9:A:MET:HE2	1:118:B:ARG:HB3	17	2.55
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	7	2.54
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	7	2.54
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG23	3	2.53
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	13	2.53
(1,4585)	1:9:A:MET:HE2	1:118:B:ARG:HG2	6	2.53
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	11	2.53
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG23	3	2.52
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	11	2.52
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG22	4	2.5
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG22	4	2.49
(1,4592)	1:9:A:MET:HE3	1:118:B:ARG:HB3	13	2.49
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	2	2.49
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	2	2.49
(1,2604)	1:44:B:ILE:HD11	1:49:B:PHE:HD1	6	2.48
(1,2603)	1:44:A:ILE:HD11	1:49:A:PHE:HD1	6	2.48
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	16	2.46
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	16	2.45
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	8	2.44
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	8	2.44
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	5	2.43
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	5	2.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	17	2.43
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	17	2.43
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG12	7	2.41
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG12	7	2.41
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG21	2	2.41
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG21	2	2.41
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD13	4	2.41
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD13	4	2.41
(1,1268)	1:64:B:VAL:HG12	1:69:B:ARG:HG2	10	2.41
(1,1267)	1:64:A:VAL:HG12	1:69:A:ARG:HG2	10	2.41
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	2	2.39
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	2	2.38
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG21	19	2.38
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG21	19	2.38
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG21	1	2.38
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG21	1	2.38
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	1	2.37
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD11	2	2.37
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD11	2	2.37
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	6	2.36
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	1	2.36
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	6	2.35
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	6	2.32
(1,4593)	1:9:B:MET:HE2	1:118:A:ARG:HB2	6	2.31
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	6	2.31
(1,870)	1:18:B:VAL:HG12	1:59:B:ARG:HG3	15	2.31
(1,869)	1:18:A:VAL:HG12	1:59:A:ARG:HG3	15	2.31
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	17	2.29
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	17	2.29
(1,2036)	1:68:B:CYS:HB3	1:64:B:VAL:HG22	2	2.29
(1,2035)	1:68:A:CYS:HB3	1:64:A:VAL:HG22	2	2.29
(1,1267)	1:64:A:VAL:HG12	1:69:A:ARG:HG2	2	2.28
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	6	2.27
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	6	2.27
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	17	2.27
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	17	2.27
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG23	9	2.27
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG23	9	2.27
(1,1268)	1:64:B:VAL:HG12	1:69:B:ARG:HG2	2	2.27
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	17	2.26
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	17	2.26
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	12	2.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	12	2.26
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD11	17	2.26
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	3	2.25
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD11	17	2.25
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	3	2.24
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	18	2.24
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	18	2.24
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD11	2	2.23
(1,4594)	1:9:B:MET:HE3	1:118:A:ARG:HB3	5	2.23
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	19	2.23
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	19	2.23
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	12	2.23
(1,1203)	1:112:A:LEU:HD13	1:71:A:ILE:HA	13	2.23
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD11	2	2.22
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	4	2.22
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	4	2.22
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG12	5	2.22
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG12	5	2.22
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG23	7	2.22
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG23	7	2.22
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	12	2.22
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG23	9	2.22
(1,1204)	1:112:B:LEU:HD13	1:71:B:ILE:HA	13	2.22
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG23	5	2.21
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG23	5	2.21
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG23	9	2.21
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD11	14	2.2
(1,4592)	1:9:A:MET:HE3	1:118:B:ARG:HB3	5	2.2
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	16	2.2
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	16	2.2
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	1	2.2
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	9	2.2
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	9	2.2
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG23	8	2.2
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	1	2.19
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG21	1	2.19
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG21	1	2.19
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG23	8	2.19
(1,4591)	1:9:A:MET:HE2	1:118:B:ARG:HB2	6	2.18
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	20	2.18
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	20	2.18
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	15	2.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	15	2.18
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD11	20	2.16
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD11	20	2.16
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD12	12	2.16
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD11	14	2.16
(1,4593)	1:9:B:MET:HE1	1:118:A:ARG:HB2	12	2.16
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	9	2.16
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	2	2.16
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG23	4	2.16
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG21	11	2.16
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	2	2.16
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG23	4	2.16
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG21	11	2.16
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG23	10	2.16
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG23	10	2.16
(1,2632)	1:6:B:VAL:HG12	1:7:B:PHE:HD1	14	2.15
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	9	2.15
(1,1060)	1:6:B:VAL:HG12	1:12:B:PHE:HE1	3	2.15
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG22	20	2.15
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG22	20	2.15
(1,2631)	1:6:A:VAL:HG12	1:7:A:PHE:HD1	14	2.14
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	19	2.14
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG21	20	2.14
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG21	20	2.14
(1,1059)	1:6:A:VAL:HG12	1:12:A:PHE:HE1	3	2.14
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	19	2.13
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	2	2.13
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG21	14	2.13
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG21	14	2.13
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	19	2.13
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD12	12	2.12
(1,4591)	1:9:A:MET:HE1	1:118:B:ARG:HB2	12	2.12
(1,4586)	1:9:A:MET:HE1	1:118:B:ARG:HG3	16	2.12
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	5	2.12
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	2	2.12
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG23	16	2.12
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG23	16	2.12
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG22	15	2.12
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG22	15	2.12
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	19	2.12
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	5	2.11
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG13	16	2.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG13	16	2.11
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	3	2.1
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	3	2.1
(1,1293)	1:102:A:ILE:HD13	1:25:A:LYS:HE3	2	2.1
(1,1294)	1:102:B:ILE:HD13	1:25:B:LYS:HE3	2	2.09
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	16	2.08
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	11	2.08
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	11	2.08
(1,2044)	1:69:B:ARG:HA	1:64:B:VAL:HG21	2	2.08
(1,2043)	1:69:A:ARG:HA	1:64:A:VAL:HG21	2	2.08
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG22	4	2.08
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG22	4	2.08
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG23	6	2.08
(1,3930)	1:71:B:ILE:HG22	1:68:B:CYS:H	14	2.07
(1,3929)	1:71:A:ILE:HG22	1:68:A:CYS:H	14	2.07
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG23	6	2.07
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	14	2.06
(1,2046)	1:64:B:VAL:HG21	1:66:B:SER:HB3	2	2.06
(1,2045)	1:64:A:VAL:HG21	1:66:A:SER:HB3	2	2.06
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG11	3	2.05
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG22	2	2.05
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG22	2	2.05
(1,4600)	1:12:B:PHE:HD1	1:112:A:LEU:HD11	1	2.04
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG13	13	2.04
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG23	1	2.04
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG23	1	2.04
(1,1060)	1:6:B:VAL:HG12	1:12:B:PHE:HE1	11	2.04
(1,1059)	1:6:A:VAL:HG12	1:12:A:PHE:HE1	11	2.04
(1,4586)	1:9:A:MET:HE1	1:118:B:ARG:HG3	8	2.03
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	14	2.03
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	15	2.03
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	15	2.03
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD13	13	2.03
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD13	13	2.03
(1,4650)	1:112:B:LEU:HD13	1:71:A:ILE:HD13	13	2.02
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG11	3	2.02
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG23	10	2.02
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG23	10	2.02
(1,4649)	1:112:A:LEU:HD13	1:71:B:ILE:HD13	13	2.01
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG23	13	2.01
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG23	13	2.01
(1,2040)	1:64:B:VAL:HG22	1:66:B:SER:H	14	2.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2039)	1:64:A:VAL:HG22	1:66:A:SER:H	14	2.01
(1,4599)	1:12:A:PHE:HD1	1:112:B:LEU:HD11	1	2.0
(1,4588)	1:9:B:MET:HE2	1:118:A:ARG:HG3	17	2.0
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG21	11	2.0
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG21	11	2.0
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG13	13	1.99
(1,4586)	1:9:A:MET:HE2	1:118:B:ARG:HG3	17	1.99
(1,1983)	1:8:A:HIS:HB3	1:5:A:PRO:HB3	8	1.99
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	17	1.99
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	17	1.99
(2,24)	1:49:B:PHE:HD1	1:44:B:ILE:H	6	1.98
(1,1984)	1:8:B:HIS:HB3	1:5:B:PRO:HB3	8	1.98
(2,23)	1:49:A:PHE:HD1	1:44:A:ILE:H	6	1.97
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	14	1.97
(1,4454)	1:82:B:THR:HG22	1:107:B:ALA:H	3	1.97
(1,4453)	1:82:A:THR:HG22	1:107:A:ALA:H	3	1.97
(1,2056)	1:85:B:THR:HA	1:87:B:VAL:HG22	5	1.97
(1,4614)	1:112:B:LEU:HD21	1:14:A:VAL:H	9	1.96
(1,4585)	1:9:A:MET:HE3	1:118:B:ARG:HG2	7	1.96
(1,2055)	1:85:A:THR:HA	1:87:A:VAL:HG22	5	1.96
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD21	7	1.96
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD21	7	1.96
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG23	20	1.96
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG23	20	1.96
(1,4587)	1:9:B:MET:HE3	1:118:A:ARG:HG2	7	1.95
(1,4288)	1:106:B:THR:HG22	1:85:B:THR:H	20	1.95
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	15	1.95
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG22	4	1.95
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG22	4	1.95
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	2	1.94
(1,4287)	1:106:A:THR:HG22	1:85:A:THR:H	20	1.94
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	17	1.94
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	17	1.94
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	8	1.94
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	15	1.94
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	2	1.93
(1,4613)	1:112:A:LEU:HD21	1:14:B:VAL:H	9	1.93
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	8	1.93
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG22	17	1.93
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG22	17	1.93
(1,1020)	1:115:B:LYS:HG2	1:77:B:ASN:H	15	1.93
(1,1019)	1:115:A:LYS:HG2	1:77:A:ASN:H	15	1.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2540)	1:87:B:VAL:HG12	1:53:B:PHE:HD1	5	1.92
(1,2539)	1:87:A:VAL:HG12	1:53:A:PHE:HD1	5	1.92
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	20	1.92
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	20	1.92
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	11	1.92
(1,2600)	1:44:B:ILE:HB	1:49:B:PHE:HD1	6	1.91
(1,2599)	1:44:A:ILE:HB	1:49:A:PHE:HD1	6	1.91
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	19	1.91
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	19	1.91
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	11	1.91
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	14	1.9
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	8	1.9
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG23	7	1.9
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG23	7	1.9
(1,869)	1:18:A:VAL:HG11	1:59:A:ARG:HG3	2	1.9
(1,200)	1:112:B:LEU:HD13	1:71:B:ILE:HD12	13	1.9
(1,199)	1:112:A:LEU:HD13	1:71:A:ILE:HD12	13	1.9
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	4	1.89
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	4	1.89
(1,870)	1:18:B:VAL:HG11	1:59:B:ARG:HG3	2	1.89
(1,1838)	1:38:B:VAL:HG12	1:25:B:LYS:H	18	1.88
(1,1837)	1:38:A:VAL:HG12	1:25:A:LYS:H	18	1.88
(1,1294)	1:102:B:ILE:HD12	1:25:B:LYS:HE3	6	1.88
(1,1293)	1:102:A:ILE:HD12	1:25:A:LYS:HE3	6	1.88
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	9	1.87
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	5	1.87
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG21	20	1.87
(1,4620)	1:44:B:ILE:HG23	1:99:A:TRP:HZ2	2	1.86
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG13	6	1.86
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG12	16	1.86
(1,3806)	1:36:B:VAL:HG22	1:93:B:ASP:H	15	1.86
(1,3805)	1:36:A:VAL:HG22	1:93:A:ASP:H	15	1.86
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG12	6	1.86
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	9	1.86
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	5	1.86
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG21	18	1.86
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG21	20	1.86
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG21	18	1.86
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	5	1.86
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	17	1.85
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG12	16	1.85
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG12	6	1.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	5	1.85
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	17	1.84
(1,4619)	1:44:A:ILE:HG23	1:99:B:TRP:HZ2	2	1.84
(1,4594)	1:9:B:MET:HE3	1:118:A:ARG:HB3	7	1.84
(1,4592)	1:9:A:MET:HE3	1:118:B:ARG:HB3	7	1.84
(1,4588)	1:9:B:MET:HE2	1:118:A:ARG:HG3	6	1.84
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	6	1.83
(1,4587)	1:9:B:MET:HE1	1:118:A:ARG:HG2	5	1.82
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	6	1.82
(1,4619)	1:44:A:ILE:HG22	1:99:B:TRP:HZ2	9	1.81
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD11	15	1.8
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD13	6	1.8
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD22	12	1.8
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD22	12	1.8
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG23	16	1.8
(1,4620)	1:44:B:ILE:HG22	1:99:A:TRP:HZ2	9	1.79
(1,4585)	1:9:A:MET:HE1	1:118:B:ARG:HG2	5	1.79
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	18	1.79
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	18	1.79
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG23	16	1.79
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG12	18	1.78
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG12	18	1.78
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD11	15	1.78
(1,1294)	1:102:B:ILE:HD11	1:25:B:LYS:HE3	9	1.78
(1,1293)	1:102:A:ILE:HD11	1:25:A:LYS:HE3	9	1.78
(1,1206)	1:112:B:LEU:HD12	1:111:B:VAL:HG22	12	1.78
(1,1206)	1:112:B:LEU:HD12	1:111:B:VAL:HG23	17	1.78
(1,1206)	1:112:B:LEU:HD13	1:111:B:VAL:HG23	19	1.78
(1,1205)	1:112:A:LEU:HD12	1:111:A:VAL:HG22	12	1.78
(1,1205)	1:112:A:LEU:HD12	1:111:A:VAL:HG23	17	1.78
(1,1205)	1:112:A:LEU:HD13	1:111:A:VAL:HG23	19	1.78
(1,4622)	1:44:B:ILE:HG22	1:99:A:TRP:HE1	7	1.77
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	15	1.77
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	15	1.77
(1,4621)	1:44:A:ILE:HG22	1:99:B:TRP:HE1	7	1.76
(1,4604)	1:12:B:PHE:HE2	1:113:A:SER:HA	11	1.76
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG13	6	1.76
(1,1205)	1:112:A:LEU:HD11	1:111:A:VAL:HG21	14	1.76
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD13	6	1.75
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	8	1.75
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	16	1.75
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	16	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1206)	1:112:B:LEU:HD11	1:111:B:VAL:HG21	14	1.75
(1,4594)	1:9:B:MET:HE3	1:118:A:ARG:HB3	11	1.74
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	8	1.74
(1,1293)	1:102:A:ILE:HD12	1:25:A:LYS:HE3	17	1.74
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD13	11	1.74
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD13	11	1.74
(1,868)	1:18:B:VAL:HG12	1:57:B:LYS:HB2	4	1.74
(1,867)	1:18:A:VAL:HG12	1:57:A:LYS:HB2	4	1.74
(1,4586)	1:9:A:MET:HE2	1:118:B:ARG:HG3	6	1.73
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	4	1.73
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	4	1.73
(1,1294)	1:102:B:ILE:HD12	1:25:B:LYS:HE3	17	1.73
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG11	2	1.73
(1,4592)	1:9:A:MET:HE3	1:118:B:ARG:HB3	11	1.72
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	7	1.72
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	7	1.72
(1,1206)	1:112:B:LEU:HD12	1:111:B:VAL:HG21	3	1.72
(1,1205)	1:112:A:LEU:HD12	1:111:A:VAL:HG21	3	1.72
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG11	2	1.72
(1,870)	1:18:B:VAL:HG12	1:59:B:ARG:HG3	17	1.72
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	19	1.71
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	19	1.71
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	16	1.71
(1,1203)	1:112:A:LEU:HD13	1:71:A:ILE:HA	8	1.71
(1,869)	1:18:A:VAL:HG12	1:59:A:ARG:HG3	17	1.71
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG12	15	1.7
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	14	1.7
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	14	1.7
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	16	1.7
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	4	1.7
(1,1204)	1:112:B:LEU:HD13	1:71:B:ILE:HA	8	1.7
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	16	1.7
(1,4649)	1:112:A:LEU:HD11	1:71:B:ILE:HD11	11	1.69
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG22	16	1.69
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	9	1.69
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	9	1.69
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	4	1.69
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	16	1.69
(1,4650)	1:112:B:LEU:HD11	1:71:A:ILE:HD11	11	1.68
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG22	16	1.68
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	20	1.68
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	20	1.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	9	1.68
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	1	1.68
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	1	1.68
(1,1268)	1:64:B:VAL:HG13	1:69:B:ARG:HG2	12	1.68
(1,1267)	1:64:A:VAL:HG13	1:69:A:ARG:HG2	12	1.68
(1,4606)	1:13:B:SER:H	1:111:A:VAL:HA	9	1.67
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG12	15	1.67
(1,4587)	1:9:B:MET:HE1	1:118:A:ARG:HG2	1	1.67
(1,4008)	1:47:B:SER:HB2	1:44:B:ILE:H	6	1.67
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	14	1.67
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	19	1.67
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	19	1.67
(1,1795)	1:9:A:MET:HE3	1:7:A:PHE:HD1	2	1.67
(1,870)	1:18:B:VAL:HG13	1:59:B:ARG:HG3	11	1.67
(1,869)	1:18:A:VAL:HG13	1:59:A:ARG:HG3	11	1.67
(1,4007)	1:47:A:SER:HB2	1:44:A:ILE:H	6	1.66
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	14	1.66
(1,2540)	1:87:B:VAL:HG12	1:53:B:PHE:HD1	3	1.66
(1,2539)	1:87:A:VAL:HG12	1:53:A:PHE:HD1	3	1.66
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	20	1.66
(1,1796)	1:9:B:MET:HE3	1:7:B:PHE:HD1	2	1.66
(1,1204)	1:112:B:LEU:HD13	1:71:B:ILE:HA	3	1.66
(1,1203)	1:112:A:LEU:HD13	1:71:A:ILE:HA	3	1.66
(1,4603)	1:12:A:PHE:HE2	1:113:B:SER:HA	11	1.65
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	4	1.65
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	4	1.65
(1,2600)	1:44:B:ILE:HB	1:49:B:PHE:HD1	20	1.65
(1,2599)	1:44:A:ILE:HB	1:49:A:PHE:HD1	20	1.65
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	1	1.65
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	1	1.65
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	20	1.65
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG21	12	1.65
(1,217)	1:9:A:MET:HE1	1:12:A:PHE:HD1	1	1.65
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG21	12	1.64
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	8	1.64
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	8	1.64
(1,460)	1:9:B:MET:HG2	1:8:B:HIS:HD2	19	1.64
(1,218)	1:9:B:MET:HE1	1:12:B:PHE:HD1	1	1.64
(1,4620)	1:44:B:ILE:HG23	1:99:A:TRP:HZ2	17	1.63
(1,4197)	1:115:A:LYS:HD3	1:77:A:ASN:H	15	1.63
(1,870)	1:18:B:VAL:HG12	1:59:B:ARG:HG3	9	1.63
(1,459)	1:9:A:MET:HG2	1:8:A:HIS:HD2	19	1.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4619)	1:44:A:ILE:HG23	1:99:B:TRP:HZ2	17	1.62
(1,4198)	1:115:B:LYS:HD3	1:77:B:ASN:H	15	1.62
(1,4180)	1:117:B:THR:HB	1:118:B:ARG:H	13	1.62
(1,4179)	1:117:A:THR:HB	1:118:A:ARG:H	13	1.62
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	5	1.62
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	5	1.62
(1,2504)	1:111:B:VAL:HG21	1:79:B:TYR:HE1	13	1.62
(1,2503)	1:111:A:VAL:HG21	1:79:A:TYR:HE1	13	1.62
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	2	1.62
(1,1795)	1:9:A:MET:HE2	1:7:A:PHE:HD1	3	1.62
(1,869)	1:18:A:VAL:HG12	1:59:A:ARG:HG3	9	1.62
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG12	17	1.61
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	3	1.61
(1,2504)	1:111:B:VAL:HG21	1:79:B:TYR:HE1	6	1.61
(1,2503)	1:111:A:VAL:HG21	1:79:A:TYR:HE1	6	1.61
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	2	1.61
(1,1796)	1:9:B:MET:HE2	1:7:B:PHE:HD1	3	1.61
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG23	12	1.61
(1,1206)	1:112:B:LEU:HD12	1:111:B:VAL:HG22	13	1.61
(1,1205)	1:112:A:LEU:HD12	1:111:A:VAL:HG22	13	1.61
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	6	1.61
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	6	1.61
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD12	9	1.61
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG12	17	1.6
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD12	13	1.6
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	7	1.6
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	12	1.6
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	7	1.6
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	12	1.6
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG23	12	1.6
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD12	9	1.6
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	12	1.59
(1,4594)	1:9:B:MET:HE1	1:118:A:ARG:HB3	12	1.59
(1,4586)	1:9:A:MET:HE1	1:118:B:ARG:HG3	3	1.58
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	11	1.58
(1,1060)	1:6:B:VAL:HG12	1:12:B:PHE:HE1	10	1.58
(1,1059)	1:6:A:VAL:HG12	1:12:A:PHE:HE1	10	1.58
(1,4620)	1:44:B:ILE:HG23	1:99:A:TRP:HZ2	4	1.57
(1,4619)	1:44:A:ILE:HG23	1:99:B:TRP:HZ2	4	1.57
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG11	12	1.57
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD12	13	1.57
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	16	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	16	1.57
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	14	1.57
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	14	1.57
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	12	1.57
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	3	1.57
(1,2540)	1:87:B:VAL:HG11	1:53:B:PHE:HD1	17	1.57
(1,2539)	1:87:A:VAL:HG11	1:53:A:PHE:HD1	17	1.57
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	11	1.57
(1,1502)	1:45:B:ASN:HB2	1:44:B:ILE:HG23	6	1.57
(1,1501)	1:45:A:ASN:HB2	1:44:A:ILE:HG23	6	1.57
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG12	1	1.57
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG12	1	1.57
(1,608)	1:32:B:LYS:HG3	1:31:B:ILE:HG21	10	1.57
(1,607)	1:32:A:LYS:HG3	1:31:A:ILE:HG21	10	1.57
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG11	12	1.56
(1,4592)	1:9:A:MET:HE1	1:118:B:ARG:HB3	12	1.56
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	3	1.56
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	12	1.56
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	17	1.56
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	17	1.56
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	2	1.56
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	2	1.56
(1,1204)	1:112:B:LEU:HD11	1:71:B:ILE:HA	11	1.56
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD11	4	1.55
(1,4591)	1:9:A:MET:HE2	1:118:B:ARG:HB2	20	1.55
(1,2506)	1:111:B:VAL:HG12	1:79:B:TYR:HE1	6	1.55
(1,2505)	1:111:A:VAL:HG12	1:79:A:TYR:HE1	6	1.55
(1,1203)	1:112:A:LEU:HD11	1:71:A:ILE:HA	11	1.55
(1,4638)	1:70:B:GLY:H	1:76:A:TRP:HE1	16	1.54
(1,4637)	1:70:A:GLY:H	1:76:B:TRP:HE1	16	1.54
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	12	1.54
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD11	4	1.54
(1,2631)	1:6:A:VAL:HG13	1:7:A:PHE:HD1	3	1.54
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	14	1.54
(1,2632)	1:6:B:VAL:HG13	1:7:B:PHE:HD1	3	1.53
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	16	1.53
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	16	1.53
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	14	1.53
(1,868)	1:18:B:VAL:HG13	1:57:B:LYS:HB2	2	1.53
(1,867)	1:18:A:VAL:HG13	1:57:A:LYS:HB2	2	1.53
(1,4650)	1:112:B:LEU:HD13	1:71:A:ILE:HD13	17	1.52
(1,4649)	1:112:A:LEU:HD13	1:71:B:ILE:HD13	17	1.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	3	1.52
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD11	14	1.52
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD11	14	1.52
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	4	1.52
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	14	1.52
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	4	1.52
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	14	1.52
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	9	1.51
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	13	1.51
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	9	1.51
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	13	1.51
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG22	3	1.51
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG22	3	1.51
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	19	1.51
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	19	1.51
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB1	14	1.51
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB1	14	1.51
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD23	20	1.5
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD23	20	1.5
(1,1060)	1:6:B:VAL:HG13	1:12:B:PHE:HE1	4	1.5
(1,1059)	1:6:A:VAL:HG13	1:12:A:PHE:HE1	4	1.5
(1,200)	1:112:B:LEU:HD13	1:71:B:ILE:HD13	8	1.5
(1,199)	1:112:A:LEU:HD13	1:71:A:ILE:HD13	8	1.5
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG12	19	1.49
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG12	19	1.49
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	3	1.49
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD12	5	1.49
(1,4593)	1:9:B:MET:HE2	1:118:A:ARG:HB2	20	1.49
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	10	1.49
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	10	1.49
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	6	1.48
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	8	1.48
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	6	1.48
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	14	1.48
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	11	1.48
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	3	1.48
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD12	5	1.47
(1,4600)	1:12:B:PHE:HD1	1:112:A:LEU:HD11	10	1.47
(1,4599)	1:12:A:PHE:HD1	1:112:B:LEU:HD11	10	1.47
(1,4593)	1:9:B:MET:HE1	1:118:A:ARG:HB2	3	1.47
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	17	1.47
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	14	1.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	8	1.47
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	3	1.47
(1,870)	1:18:B:VAL:HG13	1:59:B:ARG:HG3	3	1.47
(1,869)	1:18:A:VAL:HG13	1:59:A:ARG:HG3	3	1.47
(1,828)	1:14:B:VAL:HG12	1:110:B:CYS:HB3	13	1.47
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD11	18	1.46
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD11	18	1.46
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG12	13	1.46
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	17	1.46
(1,2604)	1:44:B:ILE:HD12	1:49:B:PHE:HD1	14	1.46
(1,2603)	1:44:A:ILE:HD12	1:49:A:PHE:HD1	14	1.46
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	11	1.46
(1,827)	1:14:A:VAL:HG12	1:110:A:CYS:HB3	13	1.46
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	7	1.45
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	7	1.45
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	5	1.45
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	20	1.45
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	5	1.45
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	20	1.45
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	8	1.45
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	8	1.45
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	19	1.45
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	11	1.45
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	19	1.45
(1,1791)	1:9:A:MET:HE2	1:6:A:VAL:HG22	19	1.45
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	11	1.45
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD21	11	1.45
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD21	11	1.45
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG12	13	1.44
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	18	1.44
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD12	18	1.44
(1,4180)	1:117:B:THR:HB	1:118:B:ARG:H	9	1.44
(1,4179)	1:117:A:THR:HB	1:118:A:ARG:H	9	1.44
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	20	1.44
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	11	1.44
(1,2870)	1:31:B:ILE:H	1:32:B:LYS:HG3	10	1.44
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	3	1.44
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	3	1.44
(1,1792)	1:9:B:MET:HE2	1:6:B:VAL:HG22	19	1.44
(1,1206)	1:112:B:LEU:HD12	1:111:B:VAL:HG21	8	1.44
(1,1205)	1:112:A:LEU:HD12	1:111:A:VAL:HG21	8	1.44
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD23	13	1.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD23	13	1.44
(1,4614)	1:112:B:LEU:HD21	1:14:A:VAL:H	15	1.43
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG22	1	1.43
(1,4591)	1:9:A:MET:HE1	1:118:B:ARG:HB2	3	1.43
(1,4585)	1:9:A:MET:HE1	1:118:B:ARG:HG2	1	1.43
(1,4084)	1:43:B:ASN:HA	1:47:B:SER:H	2	1.43
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	11	1.43
(1,2869)	1:31:A:ILE:H	1:32:A:LYS:HG3	10	1.43
(1,1796)	1:9:B:MET:HE1	1:7:B:PHE:HD1	5	1.43
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG21	19	1.43
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG21	19	1.43
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	20	1.42
(1,4083)	1:43:A:ASN:HA	1:47:A:SER:H	2	1.42
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	7	1.42
(1,1795)	1:9:A:MET:HE1	1:7:A:PHE:HD1	5	1.42
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD11	6	1.42
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD11	6	1.42
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	6	1.41
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	11	1.41
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	7	1.41
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	16	1.41
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	16	1.41
(2,20)	1:5:B:PRO:HG2	1:12:B:PHE:HE1	5	1.4
(2,19)	1:5:A:PRO:HG2	1:12:A:PHE:HE1	5	1.4
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	6	1.4
(1,4593)	1:9:B:MET:HE1	1:118:A:ARG:HB2	1	1.4
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	11	1.4
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	4	1.4
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG23	11	1.4
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG23	11	1.4
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	19	1.4
(1,1203)	1:112:A:LEU:HD11	1:71:A:ILE:HA	19	1.4
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	13	1.39
(1,3920)	1:26:B:THR:HG21	1:26:B:THR:H	14	1.39
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	10	1.39
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	10	1.39
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	4	1.39
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	7	1.39
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	19	1.39
(1,1204)	1:112:B:LEU:HD11	1:71:B:ILE:HA	19	1.39
(1,4613)	1:112:A:LEU:HD21	1:14:B:VAL:H	15	1.38
(1,4600)	1:12:B:PHE:HD1	1:112:A:LEU:HD13	19	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4599)	1:12:A:PHE:HD1	1:112:B:LEU:HD13	19	1.38
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	4	1.38
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	4	1.38
(1,3919)	1:26:A:THR:HG21	1:26:A:THR:H	14	1.38
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	18	1.38
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	18	1.38
(1,1204)	1:112:B:LEU:HD11	1:71:B:ILE:HA	5	1.38
(1,1203)	1:112:A:LEU:HD11	1:71:A:ILE:HA	5	1.38
(1,870)	1:18:B:VAL:HG11	1:59:B:ARG:HG3	8	1.38
(1,869)	1:18:A:VAL:HG11	1:59:A:ARG:HG3	8	1.38
(1,828)	1:14:B:VAL:HG11	1:110:B:CYS:HB3	11	1.38
(1,827)	1:14:A:VAL:HG11	1:110:A:CYS:HB3	11	1.38
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG21	13	1.37
(1,4594)	1:9:B:MET:HE2	1:118:A:ARG:HB3	14	1.37
(1,2504)	1:111:B:VAL:HG23	1:79:B:TYR:HE1	12	1.37
(1,2504)	1:111:B:VAL:HG21	1:79:B:TYR:HE1	16	1.37
(1,2503)	1:111:A:VAL:HG23	1:79:A:TYR:HE1	12	1.37
(1,2503)	1:111:A:VAL:HG21	1:79:A:TYR:HE1	16	1.37
(1,1796)	1:9:B:MET:HE2	1:7:B:PHE:HD1	9	1.37
(1,1795)	1:9:A:MET:HE2	1:7:A:PHE:HD1	9	1.37
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	7	1.37
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	6	1.36
(1,3126)	1:34:B:LYS:HG2	1:32:B:LYS:H	6	1.36
(1,3125)	1:34:A:LYS:HG2	1:32:A:LYS:H	6	1.36
(1,2169)	1:112:A:LEU:HD22	1:71:A:ILE:HB	20	1.36
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	14	1.36
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	14	1.36
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD12	6	1.35
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD12	6	1.35
(1,4613)	1:112:A:LEU:HD21	1:14:B:VAL:H	19	1.35
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG23	19	1.35
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG23	19	1.35
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	6	1.35
(1,2546)	1:87:B:VAL:HB	1:53:B:PHE:HD1	5	1.35
(1,2545)	1:87:A:VAL:HB	1:53:A:PHE:HD1	5	1.35
(1,2170)	1:112:B:LEU:HD22	1:71:B:ILE:HB	20	1.35
(1,4614)	1:112:B:LEU:HD21	1:14:A:VAL:H	19	1.34
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG11	11	1.34
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	9	1.34
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	9	1.34
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	1	1.34
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	1	1.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2352)	1:62:B:ASN:HB2	1:65:B:GLU:HA	2	1.34
(1,2351)	1:62:A:ASN:HB2	1:65:A:GLU:HA	2	1.34
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG22	20	1.34
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	13	1.34
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	13	1.34
(1,3806)	1:36:B:VAL:HG23	1:93:B:ASP:H	17	1.33
(1,3805)	1:36:A:VAL:HG23	1:93:A:ASP:H	17	1.33
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG22	20	1.33
(1,1020)	1:115:B:LYS:HG2	1:77:B:ASN:H	17	1.33
(1,1019)	1:115:A:LYS:HG2	1:77:A:ASN:H	17	1.33
(1,888)	1:36:B:VAL:HG13	1:30:B:ASP:HA	8	1.33
(1,4650)	1:112:B:LEU:HD13	1:71:A:ILE:HD11	12	1.32
(1,4650)	1:112:B:LEU:HD11	1:71:A:ILE:HD12	19	1.32
(1,4649)	1:112:A:LEU:HD11	1:71:B:ILE:HD12	19	1.32
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	13	1.32
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	18	1.32
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	7	1.32
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	7	1.32
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	3	1.32
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	3	1.32
(1,1258)	1:64:B:VAL:HG12	1:68:B:CYS:H	8	1.32
(1,1257)	1:64:A:VAL:HG12	1:68:A:CYS:H	8	1.32
(1,887)	1:36:A:VAL:HG13	1:30:A:ASP:HA	8	1.32
(1,200)	1:112:B:LEU:HD13	1:71:B:ILE:HD13	3	1.32
(1,199)	1:112:A:LEU:HD13	1:71:A:ILE:HD13	3	1.32
(1,4649)	1:112:A:LEU:HD13	1:71:B:ILE:HD11	12	1.31
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG21	13	1.31
(1,4585)	1:9:A:MET:HE1	1:118:B:ARG:HG2	4	1.31
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	11	1.31
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	18	1.31
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	5	1.31
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG22	8	1.31
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG22	8	1.31
(1,4587)	1:9:B:MET:HE1	1:118:A:ARG:HG2	4	1.3
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	11	1.3
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD13	12	1.3
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD13	12	1.3
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG22	1	1.29
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	5	1.29
(1,2631)	1:6:A:VAL:HG13	1:7:A:PHE:HD1	16	1.29
(1,2540)	1:87:B:VAL:HG12	1:53:B:PHE:HD1	4	1.29
(1,2539)	1:87:A:VAL:HG12	1:53:A:PHE:HD1	4	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	10	1.29
(1,4613)	1:112:A:LEU:HD23	1:14:B:VAL:H	13	1.28
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	5	1.28
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	5	1.28
(1,2632)	1:6:B:VAL:HG13	1:7:B:PHE:HD1	16	1.28
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	2	1.28
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	2	1.28
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD12	3	1.28
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD12	3	1.28
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	10	1.28
(1,826)	1:14:B:VAL:HG11	1:15:B:CYS:HB3	6	1.28
(1,825)	1:14:A:VAL:HG11	1:15:A:CYS:HB3	6	1.28
(1,4650)	1:112:B:LEU:HD13	1:71:A:ILE:HD11	8	1.27
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	2	1.27
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	16	1.27
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG11	11	1.27
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG11	14	1.27
(1,4592)	1:9:A:MET:HE2	1:118:B:ARG:HB3	14	1.27
(1,2924)	1:59:B:ARG:H	1:16:B:ASP:HB2	3	1.27
(1,2923)	1:59:A:ARG:H	1:16:A:ASP:HB2	3	1.27
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG21	10	1.27
(1,804)	1:90:B:LEU:HD23	1:39:B:LEU:HD21	9	1.27
(1,803)	1:90:A:LEU:HD23	1:39:A:LEU:HD21	9	1.27
(1,4649)	1:112:A:LEU:HD13	1:71:B:ILE:HD11	8	1.26
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	10	1.26
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	2	1.26
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	10	1.26
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	15	1.26
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	15	1.26
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG21	10	1.26
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB2	10	1.26
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB2	10	1.26
(1,826)	1:14:B:VAL:HG12	1:15:B:CYS:HB3	9	1.26
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD21	1	1.26
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD21	1	1.26
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD13	11	1.26
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD13	11	1.26
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD12	6	1.25
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	1	1.25
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	10	1.25
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	10	1.25
(1,4180)	1:117:B:THR:HB	1:118:B:ARG:H	19	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	2	1.25
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD12	7	1.25
(1,825)	1:14:A:VAL:HG12	1:15:A:CYS:HB3	9	1.25
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	2	1.24
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	16	1.24
(1,4594)	1:9:B:MET:HE1	1:118:A:ARG:HB3	19	1.24
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	1	1.24
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	19	1.24
(1,4179)	1:117:A:THR:HB	1:118:A:ARG:H	19	1.24
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	8	1.24
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	8	1.24
(1,1292)	1:102:B:ILE:HD13	1:38:B:VAL:HB	14	1.24
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD12	7	1.24
(1,1022)	1:115:B:LYS:HG2	1:76:B:TRP:HA	17	1.24
(1,1021)	1:115:A:LYS:HG2	1:76:A:TRP:HA	17	1.24
(1,4649)	1:112:A:LEU:HD11	1:71:B:ILE:HD11	5	1.23
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	18	1.23
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	18	1.23
(1,4585)	1:9:A:MET:HE3	1:118:B:ARG:HG2	10	1.23
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	19	1.23
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD13	11	1.23
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD13	11	1.23
(1,3964)	1:11:B:GLU:HG2	1:11:B:GLU:H	1	1.23
(1,3963)	1:11:A:GLU:HG2	1:11:A:GLU:H	1	1.23
(1,3184)	1:14:B:VAL:HG11	1:110:B:CYS:H	18	1.23
(1,3183)	1:14:A:VAL:HG11	1:110:A:CYS:H	18	1.23
(1,2923)	1:59:A:ARG:H	1:16:A:ASP:HB2	2	1.23
(1,2163)	1:59:A:ARG:HG3	1:18:A:VAL:H	15	1.23
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	1	1.23
(1,1291)	1:102:A:ILE:HD13	1:38:A:VAL:HB	14	1.23
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD13	19	1.23
(1,4650)	1:112:B:LEU:HD11	1:71:A:ILE:HD11	5	1.22
(1,4592)	1:9:A:MET:HE1	1:118:B:ARG:HB3	19	1.22
(1,4585)	1:9:A:MET:HE1	1:118:B:ARG:HG2	8	1.22
(1,2924)	1:59:B:ARG:H	1:16:B:ASP:HB2	2	1.22
(1,2164)	1:59:B:ARG:HG3	1:18:B:VAL:H	15	1.22
(1,1984)	1:8:B:HIS:HB3	1:5:B:PRO:HB3	14	1.22
(1,825)	1:14:A:VAL:HG12	1:15:A:CYS:HB3	12	1.22
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD13	19	1.22
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD12	18	1.22
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	6	1.21
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	6	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	6	1.21
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	7	1.21
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	7	1.21
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	1	1.21
(1,1983)	1:8:A:HIS:HB3	1:5:A:PRO:HB3	14	1.21
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	6	1.21
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	6	1.21
(1,826)	1:14:B:VAL:HG12	1:15:B:CYS:HB3	12	1.21
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD21	14	1.21
(1,384)	1:6:B:VAL:HG11	1:10:B:GLY:HA2	5	1.21
(1,383)	1:6:A:VAL:HG11	1:10:A:GLY:HA2	5	1.21
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD12	18	1.21
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD12	2	1.2
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD12	2	1.2
(1,4614)	1:112:B:LEU:HD23	1:14:A:VAL:H	13	1.2
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG11	14	1.2
(1,4587)	1:9:B:MET:HE3	1:118:A:ARG:HG2	10	1.2
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	17	1.2
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	17	1.2
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	6	1.2
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	6	1.2
(1,1240)	1:32:B:LYS:HD2	1:32:B:LYS:HB2	10	1.2
(1,1239)	1:32:A:LYS:HD2	1:32:A:LYS:HB2	10	1.2
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD21	14	1.2
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD11	6	1.2
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	14	1.19
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	9	1.19
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	9	1.19
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG21	6	1.19
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG21	6	1.19
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG23	9	1.19
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG23	9	1.19
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB1	7	1.19
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB3	19	1.19
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB3	19	1.19
(1,826)	1:14:B:VAL:HG11	1:15:B:CYS:HB3	7	1.19
(1,825)	1:14:A:VAL:HG11	1:15:A:CYS:HB3	7	1.19
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD11	6	1.19
(1,4640)	1:112:B:LEU:HD13	1:71:A:ILE:H	17	1.18
(1,4639)	1:112:A:LEU:HD13	1:71:B:ILE:H	17	1.18
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD12	18	1.18
(1,4591)	1:9:A:MET:HE1	1:118:B:ARG:HB2	8	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	14	1.18
(1,1881)	1:112:A:LEU:HD22	1:71:A:ILE:HA	20	1.18
(1,1794)	1:9:B:MET:HE2	1:6:B:VAL:HB	9	1.18
(1,1793)	1:9:A:MET:HE2	1:6:A:VAL:HB	9	1.18
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB1	7	1.18
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD22	18	1.18
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD12	18	1.17
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG21	3	1.17
(1,4240)	1:75:B:HIS:H	1:115:B:LYS:HB3	15	1.17
(1,4239)	1:75:A:HIS:H	1:115:A:LYS:HB3	15	1.17
(1,3586)	1:48:B:VAL:HG22	1:48:B:VAL:H	6	1.17
(1,3585)	1:48:A:VAL:HG22	1:48:A:VAL:H	6	1.17
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	19	1.17
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG23	3	1.17
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG23	3	1.17
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	4	1.17
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	4	1.17
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	16	1.17
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	16	1.17
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	15	1.17
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	16	1.17
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	15	1.17
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	16	1.17
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	15	1.17
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	8	1.17
(1,1882)	1:112:B:LEU:HD22	1:71:B:ILE:HA	20	1.17
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	7	1.17
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	7	1.17
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD22	12	1.17
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD22	18	1.17
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD22	12	1.17
(1,4624)	1:44:B:ILE:HD13	1:99:A:TRP:HD1	19	1.16
(1,4593)	1:9:B:MET:HE3	1:118:A:ARG:HB2	11	1.16
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	10	1.16
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	15	1.16
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	15	1.16
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	19	1.16
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	15	1.16
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	8	1.16
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG12	20	1.16
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG12	20	1.16
(1,284)	1:109:B:VAL:HG11	1:108:B:CYS:H	18	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,283)	1:109:A:VAL:HG11	1:108:A:CYS:H	18	1.16
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD13	10	1.15
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD13	10	1.15
(1,4623)	1:44:A:ILE:HD13	1:99:B:TRP:HD1	19	1.15
(1,4593)	1:9:B:MET:HE3	1:118:A:ARG:HB2	5	1.15
(1,4591)	1:9:A:MET:HE1	1:118:B:ARG:HB2	1	1.15
(1,4587)	1:9:B:MET:HE3	1:118:A:ARG:HG2	15	1.15
(1,4585)	1:9:A:MET:HE3	1:118:B:ARG:HG2	15	1.15
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	2	1.15
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	2	1.15
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	10	1.15
(1,3352)	1:22:B:VAL:HG13	1:25:B:LYS:H	17	1.15
(1,3351)	1:22:A:VAL:HG13	1:25:A:LYS:H	17	1.15
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	5	1.15
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	10	1.15
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	10	1.15
(1,2632)	1:6:B:VAL:HG13	1:7:B:PHE:HD1	4	1.15
(1,2632)	1:6:B:VAL:HG12	1:7:B:PHE:HD1	8	1.15
(1,2631)	1:6:A:VAL:HG12	1:7:A:PHE:HD1	8	1.15
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG12	1	1.15
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG12	1	1.15
(1,1983)	1:8:A:HIS:HB3	1:5:A:PRO:HB3	16	1.15
(1,1885)	1:112:A:LEU:HD22	1:77:A:ASN:HA	17	1.15
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	2	1.15
(1,4603)	1:12:A:PHE:HE1	1:113:B:SER:HA	1	1.14
(1,4115)	1:72:A:ASP:H	1:76:A:TRP:HE1	19	1.14
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	6	1.14
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	6	1.14
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	1	1.14
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	4	1.14
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	4	1.14
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	17	1.14
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	5	1.14
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	17	1.14
(1,2631)	1:6:A:VAL:HG13	1:7:A:PHE:HD1	4	1.14
(1,1984)	1:8:B:HIS:HB3	1:5:B:PRO:HB3	16	1.14
(1,1886)	1:112:B:LEU:HD22	1:77:B:ASN:HA	17	1.14
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	18	1.14
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	18	1.14
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	2	1.14
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	10	1.14
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	12	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	15	1.14
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	19	1.14
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	10	1.14
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	12	1.14
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	15	1.14
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	19	1.14
(1,4591)	1:9:A:MET:HE3	1:118:B:ARG:HB2	5	1.13
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	1	1.13
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	14	1.13
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	14	1.13
(1,826)	1:14:B:VAL:HG13	1:15:B:CYS:HB3	17	1.13
(1,825)	1:14:A:VAL:HG13	1:15:A:CYS:HB3	17	1.13
(1,738)	1:43:B:ASN:HA	1:48:B:VAL:HG22	2	1.13
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD12	14	1.12
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG13	18	1.12
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG13	18	1.12
(1,4116)	1:72:B:ASP:H	1:76:B:TRP:HE1	19	1.12
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	14	1.12
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG22	13	1.12
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG22	13	1.12
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	20	1.12
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	20	1.12
(1,1934)	1:20:B:VAL:HG13	1:55:B:GLU:HG3	4	1.12
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD22	20	1.12
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD22	20	1.12
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG21	20	1.12
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB2	11	1.12
(1,737)	1:43:A:ASN:HA	1:48:A:VAL:HG22	2	1.12
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD11	10	1.12
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD11	10	1.12
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD13	19	1.11
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD13	19	1.11
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG21	3	1.11
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	1	1.11
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	1	1.11
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	6	1.11
(1,1933)	1:20:A:VAL:HG13	1:55:A:GLU:HG3	4	1.11
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD21	7	1.11
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD21	7	1.11
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG21	20	1.11
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	2	1.11
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	2	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB2	11	1.11
(1,1110)	1:34:B:LYS:HA	1:34:B:LYS:HD2	6	1.11
(1,886)	1:36:B:VAL:HG13	1:29:B:THR:H	8	1.11
(1,885)	1:36:A:VAL:HG13	1:29:A:THR:H	8	1.11
(1,384)	1:6:B:VAL:HG11	1:10:B:GLY:HA2	7	1.11
(1,383)	1:6:A:VAL:HG11	1:10:A:GLY:HA2	7	1.11
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	17	1.1
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	17	1.1
(1,4591)	1:9:A:MET:HE3	1:118:B:ARG:HB2	11	1.1
(1,4376)	1:76:B:TRP:H	1:73:B:SER:HA	13	1.1
(1,4375)	1:76:A:TRP:H	1:73:A:SER:HA	13	1.1
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	19	1.1
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	19	1.1
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	7	1.1
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	14	1.1
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	7	1.1
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	6	1.1
(1,2632)	1:6:B:VAL:HG12	1:7:B:PHE:HD1	20	1.1
(1,2631)	1:6:A:VAL:HG12	1:7:A:PHE:HD1	20	1.1
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	7	1.1
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	8	1.1
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	17	1.1
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	7	1.1
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	8	1.1
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	17	1.1
(1,1109)	1:34:A:LYS:HA	1:34:A:LYS:HD2	6	1.1
(3,2)	1:9:B:MET:HE1	1:7:B:PHE:HB3	5	1.09
(3,1)	1:9:A:MET:HE1	1:7:A:PHE:HB3	5	1.09
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD13	6	1.09
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	14	1.09
(1,4587)	1:9:B:MET:HE1	1:118:A:ARG:HG2	8	1.09
(1,3930)	1:71:B:ILE:HG21	1:68:B:CYS:H	2	1.09
(1,3504)	1:42:B:VAL:H	1:49:B:PHE:H	2	1.09
(1,3503)	1:42:A:VAL:H	1:49:A:PHE:H	2	1.09
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	16	1.09
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	16	1.09
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	16	1.09
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	16	1.09
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	12	1.09
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	20	1.09
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	12	1.09
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	20	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	15	1.09
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	17	1.09
(1,804)	1:90:B:LEU:HD23	1:39:B:LEU:HD22	7	1.09
(1,803)	1:90:A:LEU:HD23	1:39:A:LEU:HD22	7	1.09
(1,284)	1:109:B:VAL:HG11	1:108:B:CYS:H	8	1.09
(1,283)	1:109:A:VAL:HG11	1:108:A:CYS:H	8	1.09
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD11	5	1.08
(1,3929)	1:71:A:ILE:HG21	1:68:A:CYS:H	2	1.08
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	3	1.08
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	5	1.08
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	3	1.08
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	5	1.08
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	18	1.08
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	18	1.08
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	5	1.08
(1,2539)	1:87:A:VAL:HG13	1:53:A:PHE:HD1	20	1.08
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	15	1.08
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	17	1.08
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB1	1	1.08
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG12	12	1.08
(1,803)	1:90:A:LEU:HD23	1:39:A:LEU:HD22	3	1.08
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD13	15	1.07
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD11	5	1.07
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	8	1.07
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	8	1.07
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	11	1.07
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	18	1.07
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	19	1.07
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	11	1.07
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	18	1.07
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	19	1.07
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	5	1.07
(1,2540)	1:87:B:VAL:HG13	1:53:B:PHE:HD1	20	1.07
(1,1982)	1:8:B:HIS:HB2	1:5:B:PRO:HB3	14	1.07
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB1	1	1.07
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD11	3	1.07
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG12	12	1.07
(1,804)	1:90:B:LEU:HD23	1:39:B:LEU:HD22	3	1.07
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	12	1.07
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	12	1.07
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD13	6	1.06
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD13	17	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD13	17	1.06
(1,4619)	1:44:A:ILE:HG21	1:99:B:TRP:HZ2	16	1.06
(1,4593)	1:9:B:MET:HE1	1:118:A:ARG:HB2	8	1.06
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	6	1.06
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	6	1.06
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG23	16	1.06
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG23	16	1.06
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	4	1.06
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	4	1.06
(1,1981)	1:8:A:HIS:HB2	1:5:A:PRO:HB3	14	1.06
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	12	1.06
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	9	1.06
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	12	1.06
(1,1400)	1:67:B:GLY:HA2	1:64:B:VAL:HG23	14	1.06
(1,1399)	1:67:A:GLY:HA2	1:64:A:VAL:HG23	14	1.06
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB2	15	1.06
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD11	3	1.06
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	5	1.06
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	9	1.06
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	20	1.06
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	5	1.06
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	9	1.06
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	20	1.06
(1,126)	1:115:B:LYS:HE2	1:115:B:LYS:HB3	16	1.06
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG11	11	1.05
(1,4620)	1:44:B:ILE:HG21	1:99:A:TRP:HZ2	16	1.05
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	15	1.05
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	15	1.05
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	13	1.05
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	13	1.05
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	1	1.05
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	1	1.05
(1,2546)	1:87:B:VAL:HB	1:53:B:PHE:HD1	17	1.05
(1,2545)	1:87:A:VAL:HB	1:53:A:PHE:HD1	17	1.05
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	9	1.05
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB2	15	1.05
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	4	1.05
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	7	1.05
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	11	1.05
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	19	1.05
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	4	1.05
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	7	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	11	1.05
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	19	1.05
(1,332)	1:77:B:ASN:HA	1:111:B:VAL:HG23	5	1.05
(1,331)	1:77:A:ASN:HA	1:111:A:VAL:HG23	5	1.05
(1,284)	1:109:B:VAL:HG11	1:108:B:CYS:H	5	1.05
(1,283)	1:109:A:VAL:HG11	1:108:A:CYS:H	5	1.05
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	15	1.05
(1,125)	1:115:A:LYS:HE2	1:115:A:LYS:HB3	16	1.05
(1,4640)	1:112:B:LEU:HD13	1:71:A:ILE:H	13	1.04
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD13	15	1.04
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD12	17	1.04
(1,4592)	1:9:A:MET:HE1	1:118:B:ARG:HB3	16	1.04
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	14	1.04
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	14	1.04
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	11	1.04
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	9	1.04
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	11	1.04
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	11	1.04
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	11	1.04
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	7	1.04
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	7	1.04
(1,2540)	1:87:B:VAL:HG13	1:53:B:PHE:HD1	10	1.04
(1,2539)	1:87:A:VAL:HG13	1:53:A:PHE:HD1	10	1.04
(1,2396)	1:44:B:ILE:HG12	1:44:B:ILE:HG23	19	1.04
(1,2395)	1:44:A:ILE:HG12	1:44:A:ILE:HG23	19	1.04
(1,2191)	1:42:A:VAL:HG12	1:99:A:TRP:HZ3	9	1.04
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	3	1.04
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG22	6	1.04
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG22	14	1.04
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	1	1.04
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	3	1.04
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG22	6	1.04
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG22	14	1.04
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	15	1.04
(1,126)	1:115:B:LYS:HE2	1:115:B:LYS:HB3	15	1.04
(1,125)	1:115:A:LYS:HE2	1:115:A:LYS:HB3	15	1.04
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD13	14	1.03
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG11	11	1.03
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD11	2	1.03
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	2	1.03
(1,4604)	1:12:B:PHE:HE1	1:113:A:SER:HA	1	1.03
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	9	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3184)	1:14:B:VAL:HG12	1:110:B:CYS:H	14	1.03
(1,3183)	1:14:A:VAL:HG12	1:110:A:CYS:H	14	1.03
(1,2662)	1:6:B:VAL:HG12	1:4:B:HIS:HD2	16	1.03
(1,2396)	1:44:B:ILE:HG12	1:44:B:ILE:HG23	14	1.03
(1,2395)	1:44:A:ILE:HG12	1:44:A:ILE:HG23	14	1.03
(1,2192)	1:42:B:VAL:HG12	1:99:B:TRP:HZ3	9	1.03
(1,2192)	1:42:B:VAL:HG11	1:99:B:TRP:HZ3	13	1.03
(1,2191)	1:42:A:VAL:HG11	1:99:A:TRP:HZ3	13	1.03
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD13	18	1.03
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD13	18	1.03
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	1	1.03
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	2	1.03
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	8	1.03
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	10	1.03
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	16	1.03
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	17	1.03
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	2	1.03
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	10	1.03
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	16	1.03
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	15	1.03
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	15	1.03
(1,284)	1:109:B:VAL:HG11	1:108:B:CYS:H	3	1.03
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	6	1.03
(1,283)	1:109:A:VAL:HG11	1:108:A:CYS:H	3	1.03
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	6	1.03
(1,4640)	1:112:B:LEU:HD12	1:71:A:ILE:H	6	1.02
(1,4637)	1:70:A:GLY:H	1:76:B:TRP:HE1	14	1.02
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD11	2	1.02
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD11	20	1.02
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD12	17	1.02
(1,4588)	1:9:B:MET:HE3	1:118:A:ARG:HG3	7	1.02
(1,4586)	1:9:A:MET:HE3	1:118:B:ARG:HG3	7	1.02
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	9	1.02
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG22	19	1.02
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG22	19	1.02
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	2	1.02
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	2	1.02
(1,2922)	1:106:B:THR:HG23	1:106:B:THR:H	8	1.02
(1,2921)	1:106:A:THR:HG23	1:106:A:THR:H	8	1.02
(1,2661)	1:6:A:VAL:HG12	1:4:A:HIS:HD2	16	1.02
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	10	1.02
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	10	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	14	1.02
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	14	1.02
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	19	1.02
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	11	1.02
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	19	1.02
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	20	1.02
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	8	1.02
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	8	1.02
(1,1796)	1:9:B:MET:HE3	1:7:B:PHE:HD1	20	1.02
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	12	1.02
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	12	1.02
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD22	5	1.02
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	15	1.02
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG21	18	1.02
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	8	1.02
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	15	1.02
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	17	1.02
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG21	18	1.02
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	4	1.02
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	7	1.02
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	4	1.02
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	7	1.02
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD13	14	1.01
(1,4640)	1:112:B:LEU:HD12	1:71:A:ILE:H	18	1.01
(1,4639)	1:112:A:LEU:HD12	1:71:B:ILE:H	18	1.01
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	18	1.01
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG21	7	1.01
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG21	7	1.01
(1,4606)	1:13:B:SER:H	1:111:A:VAL:HA	20	1.01
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD12	8	1.01
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD11	20	1.01
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	5	1.01
(1,4588)	1:9:B:MET:HE3	1:118:A:ARG:HG3	15	1.01
(1,4586)	1:9:A:MET:HE3	1:118:B:ARG:HG3	10	1.01
(1,4586)	1:9:A:MET:HE3	1:118:B:ARG:HG3	15	1.01
(1,4288)	1:106:B:THR:HG21	1:85:B:THR:H	8	1.01
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	8	1.01
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	9	1.01
(1,4197)	1:115:A:LYS:HD3	1:77:A:ASN:H	4	1.01
(1,3790)	1:64:B:VAL:HG22	1:69:B:ARG:H	2	1.01
(1,3789)	1:64:A:VAL:HG22	1:69:A:ARG:H	2	1.01
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	20	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	11	1.01
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	10	1.01
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	10	1.01
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	20	1.01
(1,1795)	1:9:A:MET:HE3	1:7:A:PHE:HD1	20	1.01
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	18	1.01
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	18	1.01
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD22	5	1.01
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG22	12	1.01
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG22	12	1.01
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	14	1.01
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	14	1.01
(1,384)	1:6:B:VAL:HG13	1:10:B:GLY:HA2	16	1.01
(1,383)	1:6:A:VAL:HG13	1:10:A:GLY:HA2	16	1.01
(1,216)	1:9:B:MET:HE3	1:8:B:HIS:HD2	19	1.01
(1,215)	1:9:A:MET:HE3	1:8:A:HIS:HD2	19	1.01
(1,4639)	1:112:A:LEU:HD13	1:71:B:ILE:H	13	1.0
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	11	1.0
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	18	1.0
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG22	5	1.0
(1,4287)	1:106:A:THR:HG21	1:85:A:THR:H	8	1.0
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	8	1.0
(1,4198)	1:115:B:LYS:HD3	1:77:B:ASN:H	4	1.0
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	1	1.0
(1,3932)	1:71:B:ILE:HB	1:68:B:CYS:H	14	1.0
(1,3931)	1:71:A:ILE:HB	1:68:A:CYS:H	14	1.0
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	20	1.0
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	3	1.0
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	3	1.0
(1,2506)	1:111:B:VAL:HG12	1:79:B:TYR:HE1	12	1.0
(1,2505)	1:111:A:VAL:HG12	1:79:A:TYR:HE1	12	1.0
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	1	1.0
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	1	1.0
(1,1257)	1:64:A:VAL:HG13	1:68:A:CYS:H	3	1.0
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	10	1.0
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	17	1.0
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	19	1.0
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	20	1.0
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	10	1.0
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	17	1.0
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	20	1.0
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD12	5	1.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD12	5	1.0
(1,4650)	1:112:B:LEU:HD13	1:71:A:ILE:HD11	3	0.99
(1,4639)	1:112:A:LEU:HD12	1:71:B:ILE:H	6	0.99
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD12	12	0.99
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	2	0.99
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD12	8	0.99
(1,4576)	1:34:B:LYS:HG2	1:34:B:LYS:H	6	0.99
(1,4575)	1:34:A:LYS:HG2	1:34:A:LYS:H	6	0.99
(1,4198)	1:115:B:LYS:HD3	1:77:B:ASN:H	17	0.99
(1,4197)	1:115:A:LYS:HD3	1:77:A:ASN:H	17	0.99
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	1	0.99
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	9	0.99
(1,3134)	1:32:B:LYS:HG3	1:32:B:LYS:H	10	0.99
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	11	0.99
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	11	0.99
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	3	0.99
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	5	0.99
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	3	0.99
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	5	0.99
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	16	0.99
(1,1258)	1:64:B:VAL:HG13	1:68:B:CYS:H	3	0.99
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	11	0.99
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	13	0.99
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	16	0.99
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	11	0.99
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	13	0.99
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	16	0.99
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	19	0.99
(2,26)	1:49:B:PHE:H	1:44:B:ILE:HB	20	0.98
(1,4649)	1:112:A:LEU:HD13	1:71:B:ILE:HD11	3	0.98
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	11	0.98
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG12	1	0.98
(1,4594)	1:9:B:MET:HE1	1:118:A:ARG:HB3	16	0.98
(1,4588)	1:9:B:MET:HE3	1:118:A:ARG:HG3	10	0.98
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	14	0.98
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	14	0.98
(1,4116)	1:72:B:ASP:H	1:76:B:TRP:HE1	20	0.98
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	9	0.98
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	15	0.98
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	15	0.98
(1,3428)	1:57:B:LYS:HB3	1:58:B:CYS:H	15	0.98
(1,3427)	1:57:A:LYS:HB3	1:58:A:CYS:H	15	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3172)	1:83:B:THR:HG21	1:84:B:HIS:H	9	0.98
(1,3171)	1:83:A:THR:HG21	1:84:A:HIS:H	9	0.98
(1,3133)	1:32:A:LYS:HG3	1:32:A:LYS:H	10	0.98
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	10	0.98
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	10	0.98
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	5	0.98
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	5	0.98
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	16	0.98
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	18	0.98
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	5	0.98
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	5	0.98
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD21	6	0.98
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD21	6	0.98
(1,670)	1:71:B:ILE:HG12	1:71:B:ILE:HG23	13	0.98
(1,669)	1:71:A:ILE:HG12	1:71:A:ILE:HG23	13	0.98
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	1	0.98
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	1	0.98
(2,25)	1:49:A:PHE:H	1:44:A:ILE:HB	20	0.97
(1,4638)	1:70:B:GLY:H	1:76:A:TRP:HE1	14	0.97
(1,4638)	1:70:B:GLY:H	1:76:A:TRP:HE1	18	0.97
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD13	17	0.97
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD13	17	0.97
(1,4624)	1:44:B:ILE:HD12	1:99:A:TRP:HD1	7	0.97
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG22	5	0.97
(1,4592)	1:9:A:MET:HE2	1:118:B:ARG:HB3	20	0.97
(1,4586)	1:9:A:MET:HE1	1:118:B:ARG:HG3	5	0.97
(1,4115)	1:72:A:ASP:H	1:76:A:TRP:HE1	20	0.97
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	10	0.97
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	10	0.97
(1,3172)	1:83:B:THR:HG23	1:84:B:HIS:H	15	0.97
(1,3171)	1:83:A:THR:HG23	1:84:A:HIS:H	15	0.97
(1,2924)	1:59:B:ARG:H	1:16:B:ASP:HB2	11	0.97
(1,2923)	1:59:A:ARG:H	1:16:A:ASP:HB2	11	0.97
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	12	0.97
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	19	0.97
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	12	0.97
(1,2503)	1:111:A:VAL:HG23	1:79:A:TYR:HE1	4	0.97
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	17	0.97
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	17	0.97
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	6	0.97
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	9	0.97
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	6	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	9	0.97
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	18	0.97
(1,1886)	1:112:B:LEU:HD22	1:77:B:ASN:HA	11	0.97
(1,1885)	1:112:A:LEU:HD22	1:77:A:ASN:HA	11	0.97
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	1	0.97
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	1	0.97
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD13	5	0.97
(1,4637)	1:70:A:GLY:H	1:76:B:TRP:HE1	18	0.96
(1,4623)	1:44:A:ILE:HD12	1:99:B:TRP:HD1	7	0.96
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD12	12	0.96
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG22	6	0.96
(1,4190)	1:39:B:LEU:HD13	1:41:B:GLU:H	11	0.96
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	8	0.96
(1,3428)	1:57:B:LYS:HB3	1:58:B:CYS:H	2	0.96
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG22	1	0.96
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG22	1	0.96
(1,3083)	1:26:A:THR:HG23	1:27:A:THR:H	20	0.96
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	8	0.96
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	8	0.96
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	19	0.96
(1,2504)	1:111:B:VAL:HG23	1:79:B:TYR:HE1	4	0.96
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	8	0.96
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	8	0.96
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	9	0.96
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	11	0.96
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	9	0.96
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	11	0.96
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD21	3	0.96
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD21	3	0.96
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	1	0.96
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	11	0.96
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	1	0.96
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	11	0.96
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD13	5	0.96
(1,4650)	1:112:B:LEU:HD11	1:71:A:ILE:HD12	7	0.95
(1,4649)	1:112:A:LEU:HD11	1:71:B:ILE:HD12	7	0.95
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG22	9	0.95
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	7	0.95
(1,4189)	1:39:A:LEU:HD13	1:41:A:GLU:H	11	0.95
(1,4116)	1:72:B:ASP:H	1:76:B:TRP:HE1	16	0.95
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	13	0.95
(1,3427)	1:57:A:LYS:HB3	1:58:A:CYS:H	2	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3084)	1:26:B:THR:HG23	1:27:B:THR:H	20	0.95
(1,3083)	1:26:A:THR:HG23	1:27:A:THR:H	13	0.95
(1,2922)	1:106:B:THR:HG23	1:106:B:THR:H	20	0.95
(1,2921)	1:106:A:THR:HG23	1:106:A:THR:H	20	0.95
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	8	0.95
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	8	0.95
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	9	0.95
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	18	0.95
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	18	0.95
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	3	0.95
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	3	0.95
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	3	0.95
(1,4603)	1:12:A:PHE:HE1	1:113:B:SER:HA	15	0.94
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG22	9	0.94
(1,4115)	1:72:A:ASP:H	1:76:A:TRP:HE1	16	0.94
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	8	0.94
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	14	0.94
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	12	0.94
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	13	0.94
(1,3172)	1:83:B:THR:HG21	1:84:B:HIS:H	10	0.94
(1,3171)	1:83:A:THR:HG21	1:84:A:HIS:H	10	0.94
(1,3084)	1:26:B:THR:HG23	1:27:B:THR:H	13	0.94
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	19	0.94
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	19	0.94
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	5	0.94
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	6	0.94
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	20	0.94
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	5	0.94
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	6	0.94
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	20	0.94
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	9	0.94
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	16	0.94
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	3	0.94
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD22	13	0.94
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	12	0.94
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	12	0.94
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD21	2	0.94
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	7	0.94
(1,594)	1:39:B:LEU:HD11	1:38:B:VAL:HB	11	0.94
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	7	0.94
(1,593)	1:39:A:LEU:HD11	1:38:A:VAL:HB	11	0.94
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG12	3	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG12	3	0.93
(1,4636)	1:70:B:GLY:HA3	1:76:A:TRP:HE1	16	0.93
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	7	0.93
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	14	0.93
(1,3428)	1:57:B:LYS:HB3	1:58:B:CYS:H	14	0.93
(1,3427)	1:57:A:LYS:HB3	1:58:A:CYS:H	14	0.93
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG23	20	0.93
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG23	20	0.93
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	2	0.93
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	2	0.93
(1,3172)	1:83:B:THR:HG22	1:84:B:HIS:H	20	0.93
(1,3171)	1:83:A:THR:HG22	1:84:A:HIS:H	20	0.93
(1,2600)	1:44:B:ILE:HB	1:49:B:PHE:HD1	15	0.93
(1,2599)	1:44:A:ILE:HB	1:49:A:PHE:HD1	15	0.93
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	2	0.93
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	2	0.93
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	6	0.93
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	16	0.93
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	6	0.93
(1,2067)	1:44:A:ILE:HB	1:47:A:SER:HB2	6	0.93
(1,1934)	1:20:B:VAL:HG11	1:55:B:GLU:HG3	18	0.93
(1,1933)	1:20:A:VAL:HG11	1:55:A:GLU:HG3	18	0.93
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD22	13	0.93
(1,1886)	1:112:B:LEU:HD22	1:77:B:ASN:HA	13	0.93
(1,1885)	1:112:A:LEU:HD22	1:77:A:ASN:HA	13	0.93
(1,1793)	1:9:A:MET:HE3	1:6:A:VAL:HB	2	0.93
(1,1400)	1:67:B:GLY:HA2	1:64:B:VAL:HG21	2	0.93
(1,1399)	1:67:A:GLY:HA2	1:64:A:VAL:HG21	2	0.93
(1,827)	1:14:A:VAL:HG13	1:110:A:CYS:HB3	18	0.93
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD21	2	0.93
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG22	9	0.92
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	20	0.92
(1,4635)	1:70:A:GLY:HA3	1:76:B:TRP:HE1	16	0.92
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	20	0.92
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	12	0.92
(1,2922)	1:106:B:THR:HG21	1:106:B:THR:H	6	0.92
(1,2921)	1:106:A:THR:HG21	1:106:A:THR:H	6	0.92
(1,2506)	1:111:B:VAL:HG12	1:79:B:TYR:HE1	16	0.92
(1,2505)	1:111:A:VAL:HG12	1:79:A:TYR:HE1	16	0.92
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	12	0.92
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	12	0.92
(1,2406)	1:34:B:LYS:HG3	1:34:B:LYS:HE3	20	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2405)	1:34:A:LYS:HG3	1:34:A:LYS:HE3	6	0.92
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	3	0.92
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	3	0.92
(1,2154)	1:32:B:LYS:HB2	1:30:B:ASP:HB2	5	0.92
(1,2153)	1:32:A:LYS:HB2	1:30:A:ASP:HB2	5	0.92
(1,2068)	1:44:B:ILE:HB	1:47:B:SER:HB2	6	0.92
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG21	16	0.92
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG21	16	0.92
(1,1794)	1:9:B:MET:HE3	1:6:B:VAL:HB	2	0.92
(1,828)	1:14:B:VAL:HG13	1:110:B:CYS:HB3	18	0.92
(1,126)	1:115:B:LYS:HE2	1:115:B:LYS:HB3	14	0.92
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG22	9	0.91
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	20	0.91
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD13	16	0.91
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG12	1	0.91
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	3	0.91
(1,4133)	1:58:A:CYS:H	1:82:A:THR:H	18	0.91
(1,3806)	1:36:B:VAL:HG22	1:93:B:ASP:H	4	0.91
(1,3805)	1:36:A:VAL:HG22	1:93:A:ASP:H	4	0.91
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	19	0.91
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	19	0.91
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	15	0.91
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	9	0.91
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	9	0.91
(1,3166)	1:100:B:ARG:HG2	1:100:B:ARG:H	6	0.91
(1,3165)	1:100:A:ARG:HG2	1:100:A:ARG:H	6	0.91
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	3	0.91
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	3	0.91
(1,3034)	1:71:B:ILE:HG13	1:71:B:ILE:H	13	0.91
(1,3033)	1:71:A:ILE:HG13	1:71:A:ILE:H	13	0.91
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	7	0.91
(1,2406)	1:34:B:LYS:HG3	1:34:B:LYS:HE3	6	0.91
(1,2406)	1:34:B:LYS:HG3	1:34:B:LYS:HE3	8	0.91
(1,2405)	1:34:A:LYS:HG3	1:34:A:LYS:HE3	8	0.91
(1,2405)	1:34:A:LYS:HG3	1:34:A:LYS:HE3	20	0.91
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	1	0.91
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	1	0.91
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	8	0.91
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	8	0.91
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	19	0.91
(1,1792)	1:9:B:MET:HE2	1:6:B:VAL:HG21	9	0.91
(1,1791)	1:9:A:MET:HE2	1:6:A:VAL:HG21	9	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,125)	1:115:A:LYS:HE2	1:115:A:LYS:HB3	14	0.91
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG21	2	0.9
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD11	9	0.9
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD11	9	0.9
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	3	0.9
(1,4134)	1:58:B:CYS:H	1:82:B:THR:H	18	0.9
(1,3440)	1:108:B:CYS:HB3	1:58:B:CYS:H	5	0.9
(1,3428)	1:57:B:LYS:HB3	1:58:B:CYS:H	4	0.9
(1,3427)	1:57:A:LYS:HB3	1:58:A:CYS:H	4	0.9
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG23	2	0.9
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	15	0.9
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG23	2	0.9
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	6	0.9
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	12	0.9
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	12	0.9
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	12	0.9
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	12	0.9
(1,2874)	1:50:B:ARG:HG3	1:50:B:ARG:H	13	0.9
(1,2873)	1:50:A:ARG:HG3	1:50:A:ARG:H	13	0.9
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	7	0.9
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	16	0.9
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	16	0.9
(1,2406)	1:34:B:LYS:HG3	1:34:B:LYS:HE3	5	0.9
(1,2405)	1:34:A:LYS:HG3	1:34:A:LYS:HE3	5	0.9
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	7	0.9
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	7	0.9
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	7	0.9
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	7	0.9
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	19	0.9
(1,1885)	1:112:A:LEU:HD22	1:77:A:ASN:HA	6	0.9
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	9	0.9
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	9	0.9
(1,594)	1:39:B:LEU:HD11	1:38:B:VAL:HB	18	0.9
(1,593)	1:39:A:LEU:HD11	1:38:A:VAL:HB	18	0.9
(1,4604)	1:12:B:PHE:HE1	1:113:A:SER:HA	15	0.89
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD13	16	0.89
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD11	18	0.89
(1,3439)	1:108:A:CYS:HB3	1:58:A:CYS:H	5	0.89
(1,3360)	1:25:B:LYS:HB3	1:25:B:LYS:H	14	0.89
(1,3359)	1:25:A:LYS:HB3	1:25:A:LYS:H	14	0.89
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	6	0.89
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	7	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	10	0.89
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	10	0.89
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	7	0.89
(1,2240)	1:85:B:THR:HG23	1:106:B:THR:HG23	1	0.89
(1,2239)	1:85:A:THR:HG23	1:106:A:THR:HG23	1	0.89
(1,1886)	1:112:B:LEU:HD22	1:77:B:ASN:HA	6	0.89
(1,594)	1:39:B:LEU:HD11	1:38:B:VAL:HB	4	0.89
(1,594)	1:39:B:LEU:HD11	1:38:B:VAL:HB	10	0.89
(1,593)	1:39:A:LEU:HD11	1:38:A:VAL:HB	4	0.89
(1,593)	1:39:A:LEU:HD11	1:38:A:VAL:HB	10	0.89
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD12	3	0.88
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD11	18	0.88
(1,2922)	1:106:B:THR:HG21	1:106:B:THR:H	19	0.88
(1,2921)	1:106:A:THR:HG23	1:106:A:THR:H	12	0.88
(1,2921)	1:106:A:THR:HG21	1:106:A:THR:H	19	0.88
(1,2874)	1:50:B:ARG:HG3	1:50:B:ARG:H	6	0.88
(1,2504)	1:111:B:VAL:HG21	1:79:B:TYR:HE1	15	0.88
(1,2503)	1:111:A:VAL:HG21	1:79:A:TYR:HE1	15	0.88
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG11	20	0.88
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG11	20	0.88
(1,2164)	1:59:B:ARG:HG3	1:18:B:VAL:H	9	0.88
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	4	0.88
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	4	0.88
(1,1198)	1:112:B:LEU:HD11	1:76:B:TRP:HB2	13	0.88
(1,1197)	1:112:A:LEU:HD11	1:76:A:TRP:HB2	13	0.88
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	10	0.88
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	10	0.88
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG21	2	0.87
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD12	3	0.87
(1,4288)	1:106:B:THR:HG21	1:85:B:THR:H	19	0.87
(1,4287)	1:106:A:THR:HG21	1:85:A:THR:H	19	0.87
(1,3916)	1:39:B:LEU:HD11	1:38:B:VAL:H	2	0.87
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	7	0.87
(1,3915)	1:39:A:LEU:HD11	1:38:A:VAL:H	2	0.87
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	7	0.87
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	14	0.87
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	14	0.87
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	15	0.87
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	15	0.87
(1,2922)	1:106:B:THR:HG23	1:106:B:THR:H	12	0.87
(1,2873)	1:50:A:ARG:HG3	1:50:A:ARG:H	6	0.87
(1,2163)	1:59:A:ARG:HG3	1:18:A:VAL:H	9	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	19	0.87
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	19	0.87
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD13	14	0.87
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD13	14	0.87
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	1	0.87
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	1	0.87
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG12	10	0.86
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG12	10	0.86
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD12	3	0.86
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG22	6	0.86
(1,4594)	1:9:B:MET:HE2	1:118:A:ARG:HB3	20	0.86
(1,4593)	1:9:B:MET:HE2	1:118:A:ARG:HB2	17	0.86
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	3	0.86
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	1	0.86
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	10	0.86
(1,2922)	1:106:B:THR:HG22	1:106:B:THR:H	3	0.86
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	13	0.86
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	13	0.86
(1,1704)	1:20:B:VAL:HG13	1:55:B:GLU:HG2	4	0.86
(1,1703)	1:20:A:VAL:HG13	1:55:A:GLU:HG2	4	0.86
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD21	15	0.86
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	2	0.86
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	2	0.86
(2,36)	1:103:B:ARG:H	1:104:B:ILE:HG12	19	0.85
(1,4591)	1:9:A:MET:HE2	1:118:B:ARG:HB2	17	0.85
(1,4587)	1:9:B:MET:HE1	1:118:A:ARG:HG2	17	0.85
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	13	0.85
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	3	0.85
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	3	0.85
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	15	0.85
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	3	0.85
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	8	0.85
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	8	0.85
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	1	0.85
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	14	0.85
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	14	0.85
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	10	0.85
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	18	0.85
(1,2921)	1:106:A:THR:HG22	1:106:A:THR:H	3	0.85
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	16	0.85
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	16	0.85
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	3	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	3	0.85
(1,2164)	1:59:B:ARG:HG3	1:18:B:VAL:H	17	0.85
(1,2163)	1:59:A:ARG:HG3	1:18:A:VAL:H	17	0.85
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	2	0.85
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	6	0.85
(1,828)	1:14:B:VAL:HG11	1:110:B:CYS:HB3	10	0.85
(1,827)	1:14:A:VAL:HG11	1:110:A:CYS:HB3	10	0.85
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD21	15	0.85
(1,594)	1:39:B:LEU:HD13	1:38:B:VAL:HB	19	0.85
(1,593)	1:39:A:LEU:HD13	1:38:A:VAL:HB	19	0.85
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	3	0.85
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	3	0.85
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	8	0.85
(2,35)	1:103:A:ARG:H	1:104:A:ILE:HG12	19	0.84
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	1	0.84
(1,4585)	1:9:A:MET:HE1	1:118:B:ARG:HG2	17	0.84
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	13	0.84
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	15	0.84
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	1	0.84
(1,3818)	1:27:B:THR:H	1:26:B:THR:H	7	0.84
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	5	0.84
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	19	0.84
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	19	0.84
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	18	0.84
(1,3172)	1:83:B:THR:HG22	1:84:B:HIS:H	14	0.84
(1,3171)	1:83:A:THR:HG22	1:84:A:HIS:H	14	0.84
(1,2922)	1:106:B:THR:HG23	1:106:B:THR:H	2	0.84
(1,2921)	1:106:A:THR:HG23	1:106:A:THR:H	2	0.84
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	14	0.84
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	14	0.84
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	20	0.84
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	20	0.84
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	20	0.84
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	2	0.84
(1,1348)	1:57:B:LYS:HG2	1:57:B:LYS:HE3	4	0.84
(1,1348)	1:57:B:LYS:HG2	1:57:B:LYS:HE3	14	0.84
(1,1348)	1:57:B:LYS:HG2	1:57:B:LYS:HE3	15	0.84
(1,1347)	1:57:A:LYS:HG2	1:57:A:LYS:HE3	4	0.84
(1,1347)	1:57:A:LYS:HG2	1:57:A:LYS:HE3	14	0.84
(1,1347)	1:57:A:LYS:HG2	1:57:A:LYS:HE3	15	0.84
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	6	0.84
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	8	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	1	0.83
(1,3817)	1:27:A:THR:H	1:26:A:THR:H	7	0.83
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	20	0.83
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	5	0.83
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG22	9	0.83
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG22	12	0.83
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG22	12	0.83
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	19	0.83
(1,2631)	1:6:A:VAL:HG12	1:7:A:PHE:HD1	11	0.83
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	20	0.83
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	6	0.83
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	10	0.83
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	6	0.83
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	10	0.83
(1,888)	1:36:B:VAL:HG11	1:30:B:ASP:HA	4	0.83
(1,887)	1:36:A:VAL:HG11	1:30:A:ASP:HA	4	0.83
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD22	17	0.83
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD22	17	0.83
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	8	0.83
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	16	0.83
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	8	0.83
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	12	0.83
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	12	0.83
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD13	6	0.82
(1,4323)	1:64:A:VAL:HG13	1:64:A:VAL:H	14	0.82
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	15	0.82
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	19	0.82
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	15	0.82
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	20	0.82
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG22	9	0.82
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	19	0.82
(1,2632)	1:6:B:VAL:HG12	1:7:B:PHE:HD1	11	0.82
(1,2506)	1:111:B:VAL:HG13	1:79:B:TYR:HE1	15	0.82
(1,2505)	1:111:A:VAL:HG13	1:79:A:TYR:HE1	15	0.82
(1,2504)	1:111:B:VAL:HG23	1:79:B:TYR:HE1	3	0.82
(1,2503)	1:111:A:VAL:HG23	1:79:A:TYR:HE1	3	0.82
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG21	19	0.82
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG21	19	0.82
(1,1795)	1:9:A:MET:HE2	1:7:A:PHE:HD1	4	0.82
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	16	0.82
(3,1)	1:9:A:MET:HE3	1:8:A:HIS:HB2	2	0.81
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD12	3	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4613)	1:112:A:LEU:HD21	1:14:B:VAL:H	7	0.81
(1,4587)	1:9:B:MET:HE2	1:118:A:ARG:HG2	13	0.81
(1,4324)	1:64:B:VAL:HG13	1:64:B:VAL:H	14	0.81
(1,4134)	1:58:B:CYS:H	1:82:B:THR:H	19	0.81
(1,4133)	1:58:A:CYS:H	1:82:A:THR:H	19	0.81
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	18	0.81
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	4	0.81
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	4	0.81
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	19	0.81
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	1	0.81
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	1	0.81
(1,3172)	1:83:B:THR:HG22	1:84:B:HIS:H	1	0.81
(1,3171)	1:83:A:THR:HG22	1:84:A:HIS:H	1	0.81
(1,1796)	1:9:B:MET:HE2	1:7:B:PHE:HD1	4	0.81
(1,1794)	1:9:B:MET:HE1	1:6:B:VAL:HB	5	0.81
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	10	0.81
(1,594)	1:39:B:LEU:HD13	1:38:B:VAL:HB	13	0.81
(1,593)	1:39:A:LEU:HD13	1:38:A:VAL:HB	13	0.81
(1,126)	1:115:B:LYS:HE2	1:115:B:LYS:HB3	6	0.81
(1,125)	1:115:A:LYS:HE2	1:115:A:LYS:HB3	6	0.81
(3,2)	1:9:B:MET:HE3	1:8:B:HIS:HB2	2	0.8
(1,4614)	1:112:B:LEU:HD21	1:14:A:VAL:H	7	0.8
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	11	0.8
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	20	0.8
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	18	0.8
(1,3915)	1:39:A:LEU:HD11	1:38:A:VAL:H	3	0.8
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	10	0.8
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	10	0.8
(1,3420)	1:110:B:CYS:HB3	1:15:B:CYS:H	13	0.8
(1,3419)	1:110:A:CYS:HB3	1:15:A:CYS:H	13	0.8
(1,3084)	1:26:B:THR:HG21	1:27:B:THR:H	7	0.8
(1,2922)	1:106:B:THR:HG22	1:106:B:THR:H	11	0.8
(1,2921)	1:106:A:THR:HG22	1:106:A:THR:H	11	0.8
(1,1982)	1:8:B:HIS:HB2	1:5:B:PRO:HB3	8	0.8
(1,1981)	1:8:A:HIS:HB2	1:5:A:PRO:HB3	8	0.8
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	9	0.8
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	9	0.8
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	10	0.8
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	10	0.8
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	1	0.8
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	1	0.8
(1,1838)	1:38:B:VAL:HG13	1:25:B:LYS:H	2	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1793)	1:9:A:MET:HE1	1:6:A:VAL:HB	5	0.8
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	10	0.8
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	18	0.8
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	18	0.8
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB2	12	0.8
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB2	12	0.8
(1,886)	1:36:B:VAL:HG11	1:29:B:THR:H	4	0.8
(1,885)	1:36:A:VAL:HG11	1:29:A:THR:H	4	0.8
(1,594)	1:39:B:LEU:HD13	1:38:B:VAL:HB	2	0.8
(1,593)	1:39:A:LEU:HD13	1:38:A:VAL:HB	2	0.8
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	16	0.8
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	5	0.8
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	5	0.8
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	20	0.79
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	11	0.79
(1,3916)	1:39:B:LEU:HD11	1:38:B:VAL:H	3	0.79
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	5	0.79
(1,3420)	1:110:B:CYS:HB3	1:15:B:CYS:H	11	0.79
(1,3419)	1:110:A:CYS:HB3	1:15:A:CYS:H	11	0.79
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG23	11	0.79
(1,3083)	1:26:A:THR:HG21	1:27:A:THR:H	7	0.79
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	6	0.79
(1,1886)	1:112:B:LEU:HD22	1:77:B:ASN:HA	3	0.79
(1,1885)	1:112:A:LEU:HD22	1:77:A:ASN:HA	3	0.79
(1,1837)	1:38:A:VAL:HG13	1:25:A:LYS:H	2	0.79
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB1	6	0.79
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB1	6	0.79
(1,594)	1:39:B:LEU:HD13	1:38:B:VAL:HB	3	0.79
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	17	0.79
(1,593)	1:39:A:LEU:HD13	1:38:A:VAL:HB	3	0.79
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	17	0.79
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	10	0.79
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG12	9	0.78
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG11	15	0.78
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD11	9	0.78
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD13	6	0.78
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	5	0.78
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG23	11	0.78
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	14	0.78
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	14	0.78
(1,3228)	1:83:B:THR:HG22	1:83:B:THR:H	7	0.78
(1,3227)	1:83:A:THR:HG22	1:83:A:THR:H	7	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	6	0.78
(1,2286)	1:42:B:VAL:HG21	1:42:B:VAL:H	2	0.78
(1,2285)	1:42:A:VAL:HG21	1:42:A:VAL:H	2	0.78
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD22	4	0.78
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD22	4	0.78
(1,1292)	1:102:B:ILE:HD11	1:38:B:VAL:HB	3	0.78
(1,1291)	1:102:A:ILE:HD11	1:38:A:VAL:HB	3	0.78
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	19	0.78
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD21	19	0.78
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD21	19	0.78
(1,593)	1:39:A:LEU:HD11	1:38:A:VAL:HB	20	0.78
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	8	0.78
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	10	0.78
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	8	0.78
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	16	0.78
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG12	9	0.77
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	10	0.77
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	10	0.77
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG22	4	0.77
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	11	0.77
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	11	0.77
(1,3228)	1:83:B:THR:HG21	1:83:B:THR:H	17	0.77
(1,3227)	1:83:A:THR:HG21	1:83:A:THR:H	17	0.77
(1,2508)	1:111:B:VAL:HG13	1:79:B:TYR:HD1	5	0.77
(1,2507)	1:111:A:VAL:HG13	1:79:A:TYR:HD1	5	0.77
(1,2164)	1:59:B:ARG:HG3	1:18:B:VAL:H	3	0.77
(1,2163)	1:59:A:ARG:HG3	1:18:A:VAL:H	3	0.77
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	3	0.77
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	3	0.77
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD21	5	0.77
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD21	5	0.77
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG23	8	0.77
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG23	8	0.77
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	13	0.77
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	13	0.77
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	19	0.77
(1,594)	1:39:B:LEU:HD11	1:38:B:VAL:HB	20	0.77
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD11	9	0.76
(1,4590)	1:9:B:MET:HB2	1:113:A:SER:HB2	20	0.76
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	6	0.76
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	6	0.76
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	10	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	10	0.76
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	17	0.76
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	17	0.76
(1,3520)	1:41:B:GLU:HG2	1:40:B:ALA:H	18	0.76
(1,3461)	1:56:A:THR:HG21	1:107:A:ALA:H	2	0.76
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG22	4	0.76
(1,2922)	1:106:B:THR:HG23	1:106:B:THR:H	13	0.76
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	19	0.76
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	19	0.76
(1,2505)	1:111:A:VAL:HG13	1:79:A:TYR:HE1	4	0.76
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	11	0.76
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	11	0.76
(1,2046)	1:64:B:VAL:HG21	1:66:B:SER:HB3	11	0.76
(1,2045)	1:64:A:VAL:HG21	1:66:A:SER:HB3	11	0.76
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	11	0.76
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	11	0.76
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	19	0.76
(1,1837)	1:38:A:VAL:HG11	1:25:A:LYS:H	9	0.76
(1,1636)	1:35:B:GLU:HG2	1:27:B:THR:HG22	4	0.76
(1,1635)	1:35:A:GLU:HG2	1:27:A:THR:HG22	4	0.76
(1,1292)	1:102:B:ILE:HD13	1:38:B:VAL:HB	11	0.76
(1,1291)	1:102:A:ILE:HD13	1:38:A:VAL:HB	11	0.76
(1,1268)	1:64:B:VAL:HG13	1:69:B:ARG:HG2	14	0.76
(1,1153)	1:3:A:THR:HG21	1:3:A:THR:HA	10	0.76
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG12	15	0.76
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG12	15	0.76
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	6	0.76
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	12	0.76
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	18	0.76
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	6	0.76
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	12	0.76
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	18	0.76
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG11	15	0.75
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	10	0.75
(1,4585)	1:9:A:MET:HE2	1:118:B:ARG:HG2	13	0.75
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	12	0.75
(1,3916)	1:39:B:LEU:HD11	1:38:B:VAL:H	19	0.75
(1,3915)	1:39:A:LEU:HD11	1:38:A:VAL:H	19	0.75
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	2	0.75
(1,3462)	1:56:B:THR:HG21	1:107:B:ALA:H	2	0.75
(1,3420)	1:110:B:CYS:HB3	1:15:B:CYS:H	10	0.75
(1,3228)	1:83:B:THR:HG23	1:83:B:THR:H	5	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3228)	1:83:B:THR:HG22	1:83:B:THR:H	11	0.75
(1,2923)	1:59:A:ARG:H	1:16:A:ASP:HB2	9	0.75
(1,2921)	1:106:A:THR:HG23	1:106:A:THR:H	13	0.75
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	10	0.75
(1,2506)	1:111:B:VAL:HG13	1:79:B:TYR:HE1	4	0.75
(1,2257)	1:59:A:ARG:HA	1:16:A:ASP:HB2	2	0.75
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	11	0.75
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	11	0.75
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	19	0.75
(1,1838)	1:38:B:VAL:HG11	1:25:B:LYS:H	9	0.75
(1,1267)	1:64:A:VAL:HG13	1:69:A:ARG:HG2	14	0.75
(1,1154)	1:3:B:THR:HG21	1:3:B:THR:HA	10	0.75
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB2	18	0.75
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB2	18	0.75
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG13	4	0.75
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG13	4	0.75
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	9	0.75
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	9	0.75
(1,594)	1:39:B:LEU:HD11	1:38:B:VAL:HB	12	0.75
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	9	0.75
(1,593)	1:39:A:LEU:HD11	1:38:A:VAL:HB	12	0.75
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD11	1	0.74
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	1	0.74
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	10	0.74
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	20	0.74
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG23	9	0.74
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG11	10	0.74
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	12	0.74
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	3	0.74
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	3	0.74
(1,3765)	1:56:A:THR:HG23	1:18:A:VAL:H	2	0.74
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	2	0.74
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	7	0.74
(1,3519)	1:41:A:GLU:HG2	1:40:A:ALA:H	18	0.74
(1,3419)	1:110:A:CYS:HB3	1:15:A:CYS:H	10	0.74
(1,3227)	1:83:A:THR:HG23	1:83:A:THR:H	5	0.74
(1,3227)	1:83:A:THR:HG22	1:83:A:THR:H	11	0.74
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	6	0.74
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	6	0.74
(1,2924)	1:59:B:ARG:H	1:16:B:ASP:HB2	9	0.74
(1,2898)	1:20:B:VAL:HG22	1:22:B:VAL:H	1	0.74
(1,2897)	1:20:A:VAL:HG21	1:22:A:VAL:H	14	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	10	0.74
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	13	0.74
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	4	0.74
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	4	0.74
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	3	0.74
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	3	0.74
(1,2258)	1:59:B:ARG:HA	1:16:B:ASP:HB2	2	0.74
(1,1125)	1:69:A:ARG:HD2	1:64:A:VAL:HG21	2	0.74
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD12	1	0.74
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD12	1	0.74
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG11	6	0.74
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG21	7	0.74
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	13	0.74
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	9	0.74
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	13	0.74
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	13	0.74
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	13	0.74
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD11	1	0.73
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG11	10	0.73
(1,3766)	1:56:B:THR:HG23	1:18:B:VAL:H	2	0.73
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	1	0.73
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	11	0.73
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	12	0.73
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	1	0.73
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	11	0.73
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	12	0.73
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	7	0.73
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	8	0.73
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	8	0.73
(1,3228)	1:83:B:THR:HG22	1:83:B:THR:H	6	0.73
(1,3227)	1:83:A:THR:HG22	1:83:A:THR:H	6	0.73
(1,2898)	1:20:B:VAL:HG21	1:22:B:VAL:H	2	0.73
(1,2898)	1:20:B:VAL:HG21	1:22:B:VAL:H	14	0.73
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	18	0.73
(1,2897)	1:20:A:VAL:HG22	1:22:A:VAL:H	1	0.73
(1,2897)	1:20:A:VAL:HG21	1:22:A:VAL:H	2	0.73
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	18	0.73
(1,2603)	1:44:A:ILE:HD11	1:49:A:PHE:HD1	19	0.73
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	13	0.73
(1,2258)	1:59:B:ARG:HA	1:16:B:ASP:HB2	3	0.73
(1,2257)	1:59:A:ARG:HA	1:16:A:ASP:HB2	3	0.73
(1,2096)	1:90:B:LEU:HD13	1:100:B:ARG:HG2	6	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2095)	1:90:A:LEU:HD13	1:100:A:ARG:HG2	6	0.73
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	1	0.73
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	1	0.73
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	7	0.73
(1,1886)	1:112:B:LEU:HD21	1:77:B:ASN:HA	20	0.73
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	7	0.73
(1,1885)	1:112:A:LEU:HD21	1:77:A:ASN:HA	20	0.73
(1,1838)	1:38:B:VAL:HG11	1:25:B:LYS:H	16	0.73
(1,1837)	1:38:A:VAL:HG11	1:25:A:LYS:H	16	0.73
(1,1482)	1:45:B:ASN:HB3	1:44:B:ILE:HG23	6	0.73
(1,1481)	1:45:A:ASN:HB3	1:44:A:ILE:HG23	6	0.73
(1,1258)	1:64:B:VAL:HG13	1:68:B:CYS:H	11	0.73
(1,1126)	1:69:B:ARG:HD2	1:64:B:VAL:HG21	2	0.73
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG11	6	0.73
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG21	7	0.73
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	5	0.73
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	15	0.73
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	5	0.73
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	15	0.73
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	2	0.73
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	2	0.73
(1,126)	1:115:B:LYS:HE2	1:115:B:LYS:HB3	17	0.73
(1,125)	1:115:A:LYS:HE2	1:115:A:LYS:HB3	17	0.73
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	18	0.73
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	18	0.73
(1,4624)	1:44:B:ILE:HD12	1:99:A:TRP:HD1	18	0.72
(1,4603)	1:12:A:PHE:HE1	1:113:B:SER:HA	3	0.72
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	7	0.72
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	7	0.72
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	7	0.72
(1,2604)	1:44:B:ILE:HD11	1:49:B:PHE:HD1	19	0.72
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG21	1	0.72
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG21	1	0.72
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD21	17	0.72
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD21	17	0.72
(1,1258)	1:64:B:VAL:HG11	1:68:B:CYS:H	12	0.72
(1,1257)	1:64:A:VAL:HG13	1:68:A:CYS:H	11	0.72
(1,1257)	1:64:A:VAL:HG11	1:68:A:CYS:H	12	0.72
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	2	0.72
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	11	0.72
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	2	0.72
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	11	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	14	0.72
(1,125)	1:115:A:LYS:HE2	1:115:A:LYS:HB3	11	0.72
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	3	0.72
(2,26)	1:49:B:PHE:H	1:44:B:ILE:HB	1	0.71
(1,4638)	1:70:B:GLY:H	1:76:A:TRP:HE1	17	0.71
(1,4637)	1:70:A:GLY:H	1:76:B:TRP:HE1	17	0.71
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	20	0.71
(1,4623)	1:44:A:ILE:HD12	1:99:B:TRP:HD1	18	0.71
(1,4614)	1:112:B:LEU:HD23	1:14:A:VAL:H	10	0.71
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG21	16	0.71
(1,4084)	1:43:B:ASN:HA	1:47:B:SER:H	6	0.71
(1,4083)	1:43:A:ASN:HA	1:47:A:SER:H	6	0.71
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	18	0.71
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	7	0.71
(1,3228)	1:83:B:THR:HG21	1:83:B:THR:H	2	0.71
(1,3227)	1:83:A:THR:HG21	1:83:A:THR:H	2	0.71
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	10	0.71
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	12	0.71
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	10	0.71
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	12	0.71
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG22	6	0.71
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG22	6	0.71
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG22	17	0.71
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG22	17	0.71
(1,1838)	1:38:B:VAL:HG13	1:25:B:LYS:H	14	0.71
(1,1837)	1:38:A:VAL:HG13	1:25:A:LYS:H	14	0.71
(1,1387)	1:85:A:THR:HG21	1:106:A:THR:HA	7	0.71
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	4	0.71
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	4	0.71
(1,1292)	1:102:B:ILE:HD11	1:38:B:VAL:HB	10	0.71
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	20	0.71
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	20	0.71
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	5	0.71
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	5	0.71
(1,284)	1:109:B:VAL:HG11	1:108:B:CYS:H	19	0.71
(1,283)	1:109:A:VAL:HG11	1:108:A:CYS:H	19	0.71
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	14	0.71
(1,126)	1:115:B:LYS:HE2	1:115:B:LYS:HB3	5	0.71
(1,126)	1:115:B:LYS:HE2	1:115:B:LYS:HB3	11	0.71
(1,125)	1:115:A:LYS:HE2	1:115:A:LYS:HB3	5	0.71
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	9	0.71
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	3	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	9	0.71
(2,25)	1:49:A:PHE:H	1:44:A:ILE:HB	1	0.7
(2,24)	1:49:B:PHE:HD1	1:44:B:ILE:H	2	0.7
(2,23)	1:49:A:PHE:HD1	1:44:A:ILE:H	2	0.7
(1,4613)	1:112:A:LEU:HD23	1:14:B:VAL:H	10	0.7
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG23	9	0.7
(1,4604)	1:12:B:PHE:HE1	1:113:A:SER:HA	3	0.7
(1,4600)	1:12:B:PHE:HD2	1:112:A:LEU:HD11	6	0.7
(1,4287)	1:106:A:THR:HG21	1:85:A:THR:H	6	0.7
(1,4198)	1:115:B:LYS:HD3	1:77:B:ASN:H	16	0.7
(1,4197)	1:115:A:LYS:HD3	1:77:A:ASN:H	16	0.7
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	10	0.7
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	10	0.7
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	18	0.7
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG13	6	0.7
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG13	6	0.7
(1,3228)	1:83:B:THR:HG22	1:83:B:THR:H	16	0.7
(1,3227)	1:83:A:THR:HG22	1:83:A:THR:H	16	0.7
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	6	0.7
(1,2898)	1:20:B:VAL:HG21	1:22:B:VAL:H	11	0.7
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	6	0.7
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	2	0.7
(1,2506)	1:111:B:VAL:HG11	1:79:B:TYR:HE1	13	0.7
(1,2505)	1:111:A:VAL:HG11	1:79:A:TYR:HE1	13	0.7
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	2	0.7
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	14	0.7
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	14	0.7
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	2	0.7
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	3	0.7
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	4	0.7
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	10	0.7
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	12	0.7
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	13	0.7
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	20	0.7
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	2	0.7
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	3	0.7
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	4	0.7
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	10	0.7
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	12	0.7
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	13	0.7
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	17	0.7
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	20	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1388)	1:85:B:THR:HG21	1:106:B:THR:HA	7	0.7
(1,1291)	1:102:A:ILE:HD11	1:38:A:VAL:HB	10	0.7
(1,4640)	1:112:B:LEU:HD12	1:71:A:ILE:H	20	0.69
(1,4639)	1:112:A:LEU:HD12	1:71:B:ILE:H	20	0.69
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	4	0.69
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD12	4	0.69
(1,4607)	1:112:A:LEU:HD13	1:14:B:VAL:HG22	12	0.69
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG21	16	0.69
(1,4288)	1:106:B:THR:HG21	1:85:B:THR:H	6	0.69
(1,4112)	1:72:B:ASP:H	1:76:B:TRP:HB3	2	0.69
(1,4111)	1:72:A:ASP:H	1:76:A:TRP:HB3	2	0.69
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	20	0.69
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	16	0.69
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	10	0.69
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	10	0.69
(1,3172)	1:83:B:THR:HG22	1:84:B:HIS:H	18	0.69
(1,3071)	1:71:A:ILE:HG23	1:72:A:ASP:H	19	0.69
(1,2897)	1:20:A:VAL:HG21	1:22:A:VAL:H	11	0.69
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	2	0.69
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	2	0.69
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	3	0.69
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	3	0.69
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG23	18	0.69
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG23	18	0.69
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD23	18	0.69
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD23	18	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	1	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	2	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	3	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	5	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	6	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	8	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	10	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	11	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	16	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	17	0.69
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	18	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	1	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	2	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	3	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	5	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	6	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	8	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	10	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	11	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	16	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	17	0.69
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	18	0.69
(1,1704)	1:20:B:VAL:HG11	1:55:B:GLU:HG2	18	0.69
(1,1703)	1:20:A:VAL:HG11	1:55:A:GLU:HG2	18	0.69
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	17	0.69
(1,804)	1:90:B:LEU:HD21	1:39:B:LEU:HD21	10	0.69
(1,800)	1:90:B:LEU:HD23	1:42:B:VAL:HG23	8	0.69
(1,799)	1:90:A:LEU:HD23	1:42:A:VAL:HG23	8	0.69
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	18	0.69
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	18	0.69
(3,2)	1:9:B:MET:HE1	1:8:B:HIS:HB2	9	0.68
(3,1)	1:9:A:MET:HE1	1:8:A:HIS:HB2	9	0.68
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD12	5	0.68
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG23	14	0.68
(1,4599)	1:12:A:PHE:HD2	1:112:B:LEU:HD11	6	0.68
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	17	0.68
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	3	0.68
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	3	0.68
(1,4002)	1:44:B:ILE:HG13	1:44:B:ILE:H	6	0.68
(1,4001)	1:44:A:ILE:HG13	1:44:A:ILE:H	6	0.68
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	20	0.68
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	13	0.68
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	16	0.68
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	14	0.68
(1,3171)	1:83:A:THR:HG22	1:84:A:HIS:H	18	0.68
(1,3072)	1:71:B:ILE:HG23	1:72:B:ASP:H	19	0.68
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	9	0.68
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	9	0.68
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	10	0.68
(1,2632)	1:6:B:VAL:HG12	1:7:B:PHE:HD1	1	0.68
(1,2631)	1:6:A:VAL:HG12	1:7:A:PHE:HD1	1	0.68
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	2	0.68
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	9	0.68
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	11	0.68
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	2	0.68
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	9	0.68
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	11	0.68
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	1	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	14	0.68
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	14	0.68
(1,803)	1:90:A:LEU:HD21	1:39:A:LEU:HD21	10	0.68
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	4	0.68
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	4	0.68
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	1	0.68
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	1	0.68
(1,46)	1:74:B:LYS:HE3	1:74:B:LYS:HB2	6	0.68
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD12	5	0.67
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD11	2	0.67
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD11	2	0.67
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	8	0.67
(1,4614)	1:112:B:LEU:HD23	1:14:A:VAL:H	17	0.67
(1,4613)	1:112:A:LEU:HD23	1:14:B:VAL:H	17	0.67
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG21	4	0.67
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG21	4	0.67
(1,4594)	1:9:B:MET:HE1	1:118:A:ARG:HB3	4	0.67
(1,4592)	1:9:A:MET:HE1	1:118:B:ARG:HB3	4	0.67
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	16	0.67
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	16	0.67
(1,4190)	1:39:B:LEU:HD12	1:41:B:GLU:H	13	0.67
(1,4189)	1:39:A:LEU:HD12	1:41:A:GLU:H	13	0.67
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD11	1	0.67
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD11	1	0.67
(1,3916)	1:39:B:LEU:HD11	1:38:B:VAL:H	13	0.67
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	8	0.67
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	8	0.67
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	13	0.67
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	14	0.67
(1,3228)	1:83:B:THR:HG22	1:83:B:THR:H	19	0.67
(1,3227)	1:83:A:THR:HG22	1:83:A:THR:H	19	0.67
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	10	0.67
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	10	0.67
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	13	0.67
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	17	0.67
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	18	0.67
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	10	0.67
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	13	0.67
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	17	0.67
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	18	0.67
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	16	0.67
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	16	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	11	0.67
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	11	0.67
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	9	0.67
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	9	0.67
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	14	0.67
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	1	0.67
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	9	0.67
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	9	0.67
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	3	0.67
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	11	0.67
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD21	18	0.67
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD21	18	0.67
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	3	0.67
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	14	0.67
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	16	0.67
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	3	0.67
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	14	0.67
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	16	0.67
(1,284)	1:109:B:VAL:HG12	1:108:B:CYS:H	4	0.67
(1,283)	1:109:A:VAL:HG12	1:108:A:CYS:H	4	0.67
(1,238)	1:18:B:VAL:HG12	1:19:B:SER:HB2	4	0.67
(1,238)	1:18:B:VAL:HG12	1:19:B:SER:HB2	5	0.67
(1,237)	1:18:A:VAL:HG12	1:19:A:SER:HB2	4	0.67
(1,237)	1:18:A:VAL:HG12	1:19:A:SER:HB2	5	0.67
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	20	0.67
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	20	0.67
(1,45)	1:74:A:LYS:HE3	1:74:A:LYS:HB2	6	0.67
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD13	13	0.66
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG22	18	0.66
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG22	18	0.66
(1,4288)	1:106:B:THR:HG23	1:85:B:THR:H	12	0.66
(1,4287)	1:106:A:THR:HG23	1:85:A:THR:H	12	0.66
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	17	0.66
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	2	0.66
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	11	0.66
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	2	0.66
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	11	0.66
(1,3854)	1:73:B:SER:H	1:74:B:LYS:H	20	0.66
(1,3853)	1:73:A:SER:H	1:74:A:LYS:H	20	0.66
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	12	0.66
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	12	0.66
(1,3184)	1:14:B:VAL:HG13	1:110:B:CYS:H	2	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3183)	1:14:A:VAL:HG13	1:110:A:CYS:H	2	0.66
(1,2696)	1:86:B:PHE:HZ	1:103:B:ARG:HB3	18	0.66
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	8	0.66
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	8	0.66
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG22	9	0.66
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG22	9	0.66
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	14	0.66
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	14	0.66
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	20	0.66
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD21	13	0.66
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	3	0.66
(1,1204)	1:112:B:LEU:HD13	1:71:B:ILE:HA	12	0.66
(1,1203)	1:112:A:LEU:HD13	1:71:A:ILE:HA	12	0.66
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD11	19	0.66
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD11	19	0.66
(1,1057)	1:6:A:VAL:HG13	1:9:A:MET:H	9	0.66
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	11	0.66
(1,886)	1:36:B:VAL:HG11	1:29:B:THR:H	13	0.66
(1,885)	1:36:A:VAL:HG11	1:29:A:THR:H	13	0.66
(1,842)	1:95:B:LYS:HD2	1:95:B:LYS:HE3	2	0.66
(1,842)	1:95:B:LYS:HD2	1:95:B:LYS:HE3	5	0.66
(1,842)	1:95:B:LYS:HD2	1:95:B:LYS:HE3	20	0.66
(1,841)	1:95:A:LYS:HD2	1:95:A:LYS:HE3	2	0.66
(1,841)	1:95:A:LYS:HD2	1:95:A:LYS:HE3	4	0.66
(1,841)	1:95:A:LYS:HD2	1:95:A:LYS:HE3	5	0.66
(1,841)	1:95:A:LYS:HD2	1:95:A:LYS:HE3	20	0.66
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD21	8	0.66
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD21	8	0.66
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	7	0.66
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	7	0.66
(1,594)	1:39:B:LEU:HD12	1:38:B:VAL:HB	6	0.66
(1,593)	1:39:A:LEU:HD12	1:38:A:VAL:HB	6	0.66
(1,384)	1:6:B:VAL:HG11	1:10:B:GLY:HA2	17	0.66
(1,383)	1:6:A:VAL:HG11	1:10:A:GLY:HA2	17	0.66
(1,238)	1:18:B:VAL:HG12	1:19:B:SER:HB2	18	0.66
(1,237)	1:18:A:VAL:HG12	1:19:A:SER:HB2	18	0.66
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	9	0.66
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	9	0.66
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	4	0.65
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	8	0.65
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	20	0.65
(1,4608)	1:112:B:LEU:HD13	1:14:A:VAL:HG22	12	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3915)	1:39:A:LEU:HD11	1:38:A:VAL:H	13	0.65
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	6	0.65
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG13	1	0.65
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG13	1	0.65
(1,3358)	1:24:B:ASP:H	1:25:B:LYS:H	17	0.65
(1,2938)	1:42:B:VAL:HG22	1:44:B:ILE:H	6	0.65
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	3	0.65
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	3	0.65
(1,2695)	1:86:A:PHE:HZ	1:103:A:ARG:HB3	18	0.65
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	17	0.65
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD12	14	0.65
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG22	4	0.65
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG22	4	0.65
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	14	0.65
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	20	0.65
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG21	19	0.65
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG21	19	0.65
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD21	13	0.65
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG23	3	0.65
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG23	3	0.65
(1,1058)	1:6:B:VAL:HG13	1:9:B:MET:H	9	0.65
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG11	18	0.65
(1,842)	1:95:B:LYS:HD2	1:95:B:LYS:HE3	4	0.65
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	1	0.65
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	1	0.65
(3,2)	1:9:B:MET:HE2	1:8:B:HIS:HB2	3	0.64
(3,1)	1:9:A:MET:HE2	1:8:A:HIS:HB2	3	0.64
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	4	0.64
(1,4599)	1:12:A:PHE:HD1	1:112:B:LEU:HD13	5	0.64
(1,4594)	1:9:B:MET:HE1	1:118:A:ARG:HB3	9	0.64
(1,4592)	1:9:A:MET:HE1	1:118:B:ARG:HB3	9	0.64
(1,4424)	1:76:B:TRP:HE1	1:71:B:ILE:HG22	16	0.64
(1,4423)	1:76:A:TRP:HE1	1:71:A:ILE:HG22	16	0.64
(1,4190)	1:39:B:LEU:HD11	1:41:B:GLU:H	6	0.64
(1,4189)	1:39:A:LEU:HD11	1:41:A:GLU:H	6	0.64
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	6	0.64
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	8	0.64
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	11	0.64
(1,3357)	1:24:A:ASP:H	1:25:A:LYS:H	17	0.64
(1,3184)	1:14:B:VAL:HG12	1:110:B:CYS:H	17	0.64
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	13	0.64
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	13	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2937)	1:42:A:VAL:HG22	1:44:A:ILE:H	6	0.64
(1,2898)	1:20:B:VAL:HG22	1:22:B:VAL:H	8	0.64
(1,2897)	1:20:A:VAL:HG22	1:22:A:VAL:H	8	0.64
(1,2636)	1:7:B:PHE:HD1	1:11:B:GLU:HG3	16	0.64
(1,2635)	1:7:A:PHE:HD1	1:11:A:GLU:HG3	16	0.64
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	17	0.64
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	8	0.64
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	8	0.64
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	17	0.64
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD12	14	0.64
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	4	0.64
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	9	0.64
(1,2068)	1:44:B:ILE:HB	1:47:B:SER:HB2	2	0.64
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG21	7	0.64
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	4	0.64
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	4	0.64
(1,1320)	1:31:B:ILE:HD11	1:101:B:PHE:HB2	2	0.64
(1,1204)	1:112:B:LEU:HD11	1:71:B:ILE:HA	7	0.64
(1,1203)	1:112:A:LEU:HD11	1:71:A:ILE:HA	7	0.64
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG11	18	0.64
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	1	0.64
(1,886)	1:36:B:VAL:HG11	1:29:B:THR:H	18	0.64
(1,593)	1:39:A:LEU:HD11	1:38:A:VAL:HB	14	0.64
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	20	0.64
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG23	18	0.63
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG23	18	0.63
(1,4600)	1:12:B:PHE:HD1	1:112:A:LEU:HD13	5	0.63
(1,4595)	1:11:A:GLU:HG2	1:111:B:VAL:HG12	9	0.63
(1,4589)	1:9:A:MET:HB2	1:113:B:SER:HB2	20	0.63
(1,4190)	1:39:B:LEU:HD13	1:41:B:GLU:H	10	0.63
(1,4190)	1:39:B:LEU:HD13	1:41:B:GLU:H	12	0.63
(1,4189)	1:39:A:LEU:HD13	1:41:A:GLU:H	10	0.63
(1,4189)	1:39:A:LEU:HD13	1:41:A:GLU:H	12	0.63
(1,3854)	1:73:B:SER:H	1:74:B:LYS:H	14	0.63
(1,3853)	1:73:A:SER:H	1:74:A:LYS:H	14	0.63
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	11	0.63
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	8	0.63
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	11	0.63
(1,3184)	1:14:B:VAL:HG11	1:110:B:CYS:H	8	0.63
(1,3183)	1:14:A:VAL:HG11	1:110:A:CYS:H	8	0.63
(1,3183)	1:14:A:VAL:HG12	1:110:A:CYS:H	17	0.63
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	16	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	16	0.63
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	18	0.63
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	17	0.63
(1,2240)	1:85:B:THR:HG23	1:106:B:THR:HG22	10	0.63
(1,2239)	1:85:A:THR:HG23	1:106:A:THR:HG22	10	0.63
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	4	0.63
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	9	0.63
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG11	10	0.63
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	8	0.63
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG11	10	0.63
(1,2067)	1:44:A:ILE:HB	1:47:A:SER:HB2	2	0.63
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG22	15	0.63
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG21	20	0.63
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG21	7	0.63
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG21	20	0.63
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	6	0.63
(1,1796)	1:9:B:MET:HE3	1:7:B:PHE:HD1	19	0.63
(1,1795)	1:9:A:MET:HE3	1:7:A:PHE:HD1	19	0.63
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	3	0.63
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	3	0.63
(1,1319)	1:31:A:ILE:HD11	1:101:A:PHE:HB2	2	0.63
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	3	0.63
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	3	0.63
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	1	0.63
(1,885)	1:36:A:VAL:HG13	1:29:A:THR:H	16	0.63
(1,885)	1:36:A:VAL:HG11	1:29:A:THR:H	18	0.63
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	8	0.63
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	8	0.63
(1,594)	1:39:B:LEU:HD11	1:38:B:VAL:HB	14	0.63
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	20	0.63
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	9	0.62
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	10	0.62
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG23	14	0.62
(1,3806)	1:36:B:VAL:HG21	1:93:B:ASP:H	6	0.62
(1,3805)	1:36:A:VAL:HG21	1:93:A:ASP:H	6	0.62
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	10	0.62
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	10	0.62
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	11	0.62
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	19	0.62
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	19	0.62
(1,2810)	1:39:B:LEU:HD22	1:92:B:THR:H	12	0.62
(1,2809)	1:39:A:LEU:HD22	1:92:A:THR:H	12	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	18	0.62
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG22	16	0.62
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG22	16	0.62
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	8	0.62
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG11	16	0.62
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG11	16	0.62
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG22	15	0.62
(1,1882)	1:112:B:LEU:HD21	1:71:B:ILE:HA	3	0.62
(1,1881)	1:112:A:LEU:HD21	1:71:A:ILE:HA	3	0.62
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	6	0.62
(1,1792)	1:9:B:MET:HE2	1:6:B:VAL:HG23	6	0.62
(1,1791)	1:9:A:MET:HE2	1:6:A:VAL:HG23	6	0.62
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	1	0.62
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD13	5	0.62
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD13	5	0.62
(1,1204)	1:112:B:LEU:HD13	1:71:B:ILE:HA	17	0.62
(1,886)	1:36:B:VAL:HG13	1:29:B:THR:H	16	0.62
(1,828)	1:14:B:VAL:HG12	1:110:B:CYS:HB3	14	0.62
(1,827)	1:14:A:VAL:HG12	1:110:A:CYS:HB3	14	0.62
(1,804)	1:90:B:LEU:HD23	1:39:B:LEU:HD23	4	0.62
(1,803)	1:90:A:LEU:HD23	1:39:A:LEU:HD23	4	0.62
(1,801)	1:90:A:LEU:HD22	1:39:A:LEU:HD11	11	0.62
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	17	0.62
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	17	0.62
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	19	0.62
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	19	0.62
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	15	0.62
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	15	0.62
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD12	10	0.61
(1,4623)	1:44:A:ILE:HD11	1:99:B:TRP:HD1	14	0.61
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD13	1	0.61
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD12	18	0.61
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG23	11	0.61
(1,4596)	1:11:B:GLU:HG2	1:111:A:VAL:HG12	9	0.61
(1,4058)	1:62:B:ASN:HD22	1:67:B:GLY:H	14	0.61
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	4	0.61
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	4	0.61
(1,3853)	1:73:A:SER:H	1:74:A:LYS:H	5	0.61
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	19	0.61
(1,2898)	1:20:B:VAL:HG22	1:22:B:VAL:H	20	0.61
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	19	0.61
(1,2718)	1:42:B:VAL:HG12	1:99:B:TRP:HZ2	9	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2717)	1:42:A:VAL:HG12	1:99:A:TRP:HZ2	9	0.61
(1,2304)	1:100:B:ARG:HA	1:100:B:ARG:HD2	6	0.61
(1,2303)	1:100:A:ARG:HA	1:100:A:ARG:HD2	6	0.61
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	18	0.61
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	1	0.61
(1,1203)	1:112:A:LEU:HD13	1:71:A:ILE:HA	17	0.61
(1,802)	1:90:B:LEU:HD22	1:39:B:LEU:HD11	11	0.61
(1,4643)	1:85:A:THR:HG22	1:106:B:THR:HG22	14	0.6
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD12	18	0.6
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG23	11	0.6
(1,4593)	1:9:B:MET:HE1	1:118:A:ARG:HB2	18	0.6
(1,4526)	1:45:B:ASN:HD21	1:44:B:ILE:HG22	14	0.6
(1,4525)	1:45:A:ASN:HD21	1:44:A:ILE:HG22	14	0.6
(1,4154)	1:72:B:ASP:HA	1:74:B:LYS:H	14	0.6
(1,4153)	1:72:A:ASP:HA	1:74:A:LYS:H	14	0.6
(1,4057)	1:62:A:ASN:HD22	1:67:A:GLY:H	14	0.6
(1,3854)	1:73:B:SER:H	1:74:B:LYS:H	5	0.6
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	3	0.6
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	13	0.6
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	13	0.6
(1,2898)	1:20:B:VAL:HG21	1:22:B:VAL:H	5	0.6
(1,2897)	1:20:A:VAL:HG21	1:22:A:VAL:H	5	0.6
(1,2897)	1:20:A:VAL:HG22	1:22:A:VAL:H	20	0.6
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	9	0.6
(1,2539)	1:87:A:VAL:HG12	1:53:A:PHE:HD1	15	0.6
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	18	0.6
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG23	4	0.6
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG21	6	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	1	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	2	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	4	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	5	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	6	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	7	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	8	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	9	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	10	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	11	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	12	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	13	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	15	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	16	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	17	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	19	0.6
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	20	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	2	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	4	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	5	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	6	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	7	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	8	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	9	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	10	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	11	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	15	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	16	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	17	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	19	0.6
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	20	0.6
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	10	0.6
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	10	0.6
(1,1882)	1:112:B:LEU:HD23	1:71:B:ILE:HA	6	0.6
(1,1881)	1:112:A:LEU:HD23	1:71:A:ILE:HA	6	0.6
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	3	0.6
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	2	0.6
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	5	0.6
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	9	0.6
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	12	0.6
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	13	0.6
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	20	0.6
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	5	0.6
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	9	0.6
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	20	0.6
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	2	0.6
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	2	0.6
(1,628)	1:64:B:VAL:HG22	1:62:B:ASN:H	14	0.6
(1,627)	1:64:A:VAL:HG22	1:62:A:ASN:H	14	0.6
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	20	0.6
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	20	0.6
(1,284)	1:109:B:VAL:HG12	1:108:B:CYS:H	14	0.6
(1,283)	1:109:A:VAL:HG12	1:108:A:CYS:H	14	0.6
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD13	13	0.59
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD13	1	0.59
(1,4614)	1:112:B:LEU:HD23	1:14:A:VAL:H	6	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4591)	1:9:A:MET:HE1	1:118:B:ARG:HB2	18	0.59
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	6	0.59
(1,3725)	1:34:A:LYS:HD2	1:34:A:LYS:H	9	0.59
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	3	0.59
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	7	0.59
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	13	0.59
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	13	0.59
(1,3398)	1:22:B:VAL:HG12	1:24:B:ASP:H	14	0.59
(1,3397)	1:22:A:VAL:HG12	1:24:A:ASP:H	14	0.59
(1,3172)	1:83:B:THR:HG23	1:84:B:HIS:H	12	0.59
(1,3171)	1:83:A:THR:HG23	1:84:A:HIS:H	12	0.59
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	6	0.59
(1,2898)	1:20:B:VAL:HG21	1:22:B:VAL:H	7	0.59
(1,2898)	1:20:B:VAL:HG21	1:22:B:VAL:H	15	0.59
(1,2897)	1:20:A:VAL:HG21	1:22:A:VAL:H	7	0.59
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG12	9	0.59
(1,2540)	1:87:B:VAL:HG12	1:53:B:PHE:HD1	15	0.59
(1,2115)	1:36:A:VAL:HG23	1:35:A:GLU:H	6	0.59
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG21	6	0.59
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG23	4	0.59
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	3	0.59
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	18	0.59
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	1	0.59
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	3	0.59
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	12	0.59
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	13	0.59
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	14	0.59
(1,1957)	1:25:A:LYS:HB2	1:25:A:LYS:HG2	18	0.59
(1,1886)	1:112:B:LEU:HD21	1:77:B:ASN:HA	16	0.59
(1,1885)	1:112:A:LEU:HD21	1:77:A:ASN:HA	16	0.59
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	8	0.59
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	3	0.59
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	8	0.59
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	1	0.59
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	3	0.59
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	8	0.59
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	10	0.59
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	11	0.59
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	17	0.59
(1,1252)	1:115:B:LYS:HG2	1:115:B:LYS:HD3	18	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	1	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	2	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	3	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	8	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	10	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	11	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	12	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	13	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	17	0.59
(1,1251)	1:115:A:LYS:HG2	1:115:A:LYS:HD3	18	0.59
(1,610)	1:100:B:ARG:HD3	1:100:B:ARG:HB2	1	0.59
(1,609)	1:100:A:ARG:HD3	1:100:A:ARG:HB2	1	0.59
(3,2)	1:9:B:MET:HE2	1:8:B:HIS:HB2	4	0.58
(3,1)	1:9:A:MET:HE2	1:8:A:HIS:HB2	4	0.58
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	9	0.58
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG21	10	0.58
(1,4590)	1:9:B:MET:HB2	1:113:A:SER:HB2	10	0.58
(1,4589)	1:9:A:MET:HB2	1:113:B:SER:HB2	10	0.58
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD12	13	0.58
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	6	0.58
(1,4288)	1:106:B:THR:HG22	1:85:B:THR:H	11	0.58
(1,4287)	1:106:A:THR:HG22	1:85:A:THR:H	11	0.58
(1,4154)	1:72:B:ASP:HA	1:74:B:LYS:H	20	0.58
(1,4153)	1:72:A:ASP:HA	1:74:A:LYS:H	20	0.58
(1,3854)	1:73:B:SER:H	1:74:B:LYS:H	19	0.58
(1,3853)	1:73:A:SER:H	1:74:A:LYS:H	19	0.58
(1,3825)	1:27:A:THR:H	1:25:A:LYS:HG2	18	0.58
(1,3805)	1:36:A:VAL:HG23	1:93:A:ASP:H	9	0.58
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	18	0.58
(1,3726)	1:34:B:LYS:HD2	1:34:B:LYS:H	9	0.58
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	9	0.58
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	7	0.58
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	9	0.58
(1,3374)	1:88:B:LYS:H	1:88:B:LYS:HG3	19	0.58
(1,3373)	1:88:A:LYS:H	1:88:A:LYS:HG3	19	0.58
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	6	0.58
(1,2897)	1:20:A:VAL:HG21	1:22:A:VAL:H	15	0.58
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	9	0.58
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG12	9	0.58
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	10	0.58
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	10	0.58
(1,2164)	1:59:B:ARG:HG3	1:18:B:VAL:H	11	0.58
(1,2163)	1:59:A:ARG:HG3	1:18:A:VAL:H	11	0.58
(1,2116)	1:36:B:VAL:HG23	1:35:B:GLU:H	6	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1958)	1:25:B:LYS:HB2	1:25:B:LYS:HG2	14	0.58
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	16	0.58
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	13	0.58
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	13	0.58
(1,1320)	1:31:B:ILE:HD11	1:101:B:PHE:HB2	8	0.58
(1,1266)	1:64:B:VAL:HG12	1:64:B:VAL:HG23	14	0.58
(1,1265)	1:64:A:VAL:HG12	1:64:A:VAL:HG23	14	0.58
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	7	0.58
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD23	17	0.58
(1,384)	1:6:B:VAL:HG12	1:10:B:GLY:HA2	14	0.58
(1,383)	1:6:A:VAL:HG12	1:10:A:GLY:HA2	14	0.58
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	10	0.58
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	10	0.58
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD12	4	0.57
(1,4644)	1:85:B:THR:HG22	1:106:A:THR:HG22	14	0.57
(1,4625)	1:86:A:PHE:H	1:54:B:PHE:HD2	5	0.57
(1,4624)	1:44:B:ILE:HD11	1:99:A:TRP:HD1	14	0.57
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD12	14	0.57
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	20	0.57
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG21	10	0.57
(1,4424)	1:76:B:TRP:HE1	1:71:B:ILE:HG22	20	0.57
(1,3964)	1:11:B:GLU:HG2	1:11:B:GLU:H	13	0.57
(1,3963)	1:11:A:GLU:HG2	1:11:A:GLU:H	13	0.57
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	1	0.57
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	1	0.57
(1,3826)	1:27:B:THR:H	1:25:B:LYS:HG2	18	0.57
(1,3806)	1:36:B:VAL:HG23	1:93:B:ASP:H	9	0.57
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	18	0.57
(1,2116)	1:36:B:VAL:HG23	1:35:B:GLU:H	10	0.57
(1,1926)	1:37:B:THR:HA	1:39:B:LEU:HD21	16	0.57
(1,1925)	1:37:A:THR:HA	1:39:A:LEU:HD21	16	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	1	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	2	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	4	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	5	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	7	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	8	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	12	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	13	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	15	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	16	0.57
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	18	0.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	19	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	1	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	2	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	4	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	5	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	7	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	8	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	12	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	13	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	15	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	16	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	18	0.57
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	19	0.57
(1,1838)	1:38:B:VAL:HG12	1:25:B:LYS:H	19	0.57
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	9	0.57
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	9	0.57
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	16	0.57
(1,1644)	1:43:B:ASN:HB3	1:48:B:VAL:HG22	2	0.57
(1,1643)	1:43:A:ASN:HB3	1:48:A:VAL:HG22	2	0.57
(1,1319)	1:31:A:ILE:HD11	1:101:A:PHE:HB2	8	0.57
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD13	6	0.57
(1,1258)	1:64:B:VAL:HG13	1:68:B:CYS:H	10	0.57
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	18	0.57
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	12	0.57
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	7	0.57
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD23	17	0.57
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	9	0.57
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	9	0.57
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD13	1	0.57
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD12	4	0.56
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD13	13	0.56
(1,4626)	1:86:B:PHE:H	1:54:A:PHE:HD2	5	0.56
(1,4613)	1:112:A:LEU:HD23	1:14:B:VAL:H	6	0.56
(1,4613)	1:112:A:LEU:HD23	1:14:B:VAL:H	11	0.56
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG22	10	0.56
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD12	13	0.56
(1,4526)	1:45:B:ASN:HD21	1:44:B:ILE:HG21	7	0.56
(1,4525)	1:45:A:ASN:HD21	1:44:A:ILE:HG21	7	0.56
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	5	0.56
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	5	0.56
(1,4423)	1:76:A:TRP:HE1	1:71:A:ILE:HG22	20	0.56
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	9	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	9	0.56
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	11	0.56
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	11	0.56
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	5	0.56
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	1	0.56
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	1	0.56
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	19	0.56
(1,3172)	1:83:B:THR:HG22	1:84:B:HIS:H	4	0.56
(1,3171)	1:83:A:THR:HG22	1:84:A:HIS:H	4	0.56
(1,2632)	1:6:B:VAL:HG13	1:7:B:PHE:HD1	6	0.56
(1,2632)	1:6:B:VAL:HG13	1:7:B:PHE:HD1	19	0.56
(1,2631)	1:6:A:VAL:HG13	1:7:A:PHE:HD1	19	0.56
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	2	0.56
(1,2115)	1:36:A:VAL:HG23	1:35:A:GLU:H	10	0.56
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	3	0.56
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	6	0.56
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	11	0.56
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	3	0.56
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	6	0.56
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	11	0.56
(1,1837)	1:38:A:VAL:HG12	1:25:A:LYS:H	19	0.56
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	10	0.56
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	18	0.56
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	10	0.56
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	17	0.56
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	19	0.56
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	7	0.56
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	17	0.56
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	19	0.56
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG11	6	0.56
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG11	6	0.56
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD13	6	0.56
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG23	2	0.56
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG23	2	0.56
(1,1257)	1:64:A:VAL:HG13	1:68:A:CYS:H	10	0.56
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	18	0.56
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	12	0.56
(1,868)	1:18:B:VAL:HG12	1:57:B:LYS:HB2	6	0.56
(1,867)	1:18:A:VAL:HG12	1:57:A:LYS:HB2	6	0.56
(1,652)	1:9:B:MET:HG2	1:9:B:MET:HE3	16	0.56
(1,651)	1:9:A:MET:HG2	1:9:A:MET:HE1	14	0.56
(1,651)	1:9:A:MET:HG2	1:9:A:MET:HE3	16	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:109:B:VAL:HG11	1:108:B:CYS:H	2	0.56
(1,283)	1:109:A:VAL:HG11	1:108:A:CYS:H	2	0.56
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD13	1	0.56
(1,130)	1:115:B:LYS:HE2	1:115:B:LYS:HB2	13	0.56
(1,129)	1:115:A:LYS:HE2	1:115:A:LYS:HB2	13	0.56
(2,27)	1:15:A:CYS:H	1:68:A:CYS:HB3	14	0.55
(1,4640)	1:112:B:LEU:HD13	1:71:A:ILE:H	12	0.55
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	8	0.55
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	8	0.55
(1,4621)	1:44:A:ILE:HG21	1:99:B:TRP:HE1	3	0.55
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD12	14	0.55
(1,4614)	1:112:B:LEU:HD23	1:14:A:VAL:H	11	0.55
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG22	10	0.55
(1,4588)	1:9:B:MET:HE3	1:118:A:ARG:HG3	13	0.55
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	8	0.55
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	8	0.55
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	8	0.55
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	4	0.55
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	4	0.55
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	5	0.55
(1,3790)	1:64:B:VAL:HG23	1:69:B:ARG:H	14	0.55
(1,3789)	1:64:A:VAL:HG23	1:69:A:ARG:H	14	0.55
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	6	0.55
(1,3764)	1:18:B:VAL:H	1:57:B:LYS:HB2	4	0.55
(1,3763)	1:18:A:VAL:H	1:57:A:LYS:HB2	4	0.55
(1,3582)	1:76:B:TRP:HE1	1:75:B:HIS:HB3	5	0.55
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	10	0.55
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	19	0.55
(1,2631)	1:6:A:VAL:HG13	1:7:A:PHE:HD1	6	0.55
(1,2600)	1:44:B:ILE:HB	1:49:B:PHE:HD1	1	0.55
(1,2599)	1:44:A:ILE:HB	1:49:A:PHE:HD1	1	0.55
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	16	0.55
(1,2352)	1:62:B:ASN:HB2	1:65:B:GLU:HA	14	0.55
(1,2351)	1:62:A:ASN:HB2	1:65:A:GLU:HA	14	0.55
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	4	0.55
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	4	0.55
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	13	0.55
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	13	0.55
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	5	0.55
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	5	0.55
(1,2164)	1:59:B:ARG:HG3	1:18:B:VAL:H	2	0.55
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	2	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	17	0.55
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	17	0.55
(1,1886)	1:112:B:LEU:HD21	1:77:B:ASN:HA	4	0.55
(1,1885)	1:112:A:LEU:HD21	1:77:A:ASN:HA	4	0.55
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	12	0.55
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	14	0.55
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	12	0.55
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	14	0.55
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	18	0.55
(1,1796)	1:9:B:MET:HE1	1:7:B:PHE:HD1	12	0.55
(1,1795)	1:9:A:MET:HE1	1:7:A:PHE:HD1	12	0.55
(1,1792)	1:9:B:MET:HE1	1:6:B:VAL:HG22	11	0.55
(1,1791)	1:9:A:MET:HE1	1:6:A:VAL:HG22	11	0.55
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	7	0.55
(1,1258)	1:64:B:VAL:HG12	1:68:B:CYS:H	18	0.55
(1,800)	1:90:B:LEU:HD23	1:42:B:VAL:HG23	20	0.55
(1,799)	1:90:A:LEU:HD23	1:42:A:VAL:HG23	20	0.55
(1,652)	1:9:B:MET:HG2	1:9:B:MET:HE2	8	0.55
(1,652)	1:9:B:MET:HG2	1:9:B:MET:HE2	11	0.55
(1,652)	1:9:B:MET:HG2	1:9:B:MET:HE1	14	0.55
(1,651)	1:9:A:MET:HG2	1:9:A:MET:HE2	8	0.55
(1,651)	1:9:A:MET:HG2	1:9:A:MET:HE2	9	0.55
(1,651)	1:9:A:MET:HG2	1:9:A:MET:HE2	11	0.55
(1,524)	1:116:B:ALA:HB1	1:117:B:THR:HA	1	0.55
(1,523)	1:116:A:ALA:HB1	1:117:A:THR:HA	1	0.55
(1,237)	1:18:A:VAL:HG12	1:19:A:SER:HB2	3	0.55
(2,28)	1:15:B:CYS:H	1:68:B:CYS:HB3	14	0.54
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD13	1	0.54
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG21	15	0.54
(1,4390)	1:82:B:THR:HG21	1:82:B:THR:H	6	0.54
(1,4390)	1:82:B:THR:HG23	1:82:B:THR:H	8	0.54
(1,4389)	1:82:A:THR:HG23	1:82:A:THR:H	8	0.54
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	8	0.54
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG12	16	0.54
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	6	0.54
(1,3764)	1:18:B:VAL:H	1:57:B:LYS:HB2	2	0.54
(1,3763)	1:18:A:VAL:H	1:57:A:LYS:HB2	2	0.54
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	15	0.54
(1,3581)	1:76:A:TRP:HE1	1:75:A:HIS:HB3	5	0.54
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	10	0.54
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	12	0.54
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	18	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	18	0.54
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	11	0.54
(1,2662)	1:6:B:VAL:HG12	1:4:B:HIS:HD2	10	0.54
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	16	0.54
(1,2550)	1:53:B:PHE:HD1	1:25:B:LYS:H	18	0.54
(1,2549)	1:53:A:PHE:HD1	1:25:A:LYS:H	18	0.54
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	17	0.54
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	17	0.54
(1,2163)	1:59:A:ARG:HG3	1:18:A:VAL:H	2	0.54
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	5	0.54
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	14	0.54
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	5	0.54
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	4	0.54
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	5	0.54
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	11	0.54
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	18	0.54
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	11	0.54
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	18	0.54
(1,1436)	1:22:B:VAL:HG13	1:53:B:PHE:HD1	1	0.54
(1,1435)	1:22:A:VAL:HG13	1:53:A:PHE:HD1	1	0.54
(1,1266)	1:64:B:VAL:HG12	1:64:B:VAL:HG21	10	0.54
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG23	17	0.54
(1,1265)	1:64:A:VAL:HG12	1:64:A:VAL:HG21	10	0.54
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG23	17	0.54
(1,1257)	1:64:A:VAL:HG12	1:68:A:CYS:H	18	0.54
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	1	0.54
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	1	0.54
(1,804)	1:90:B:LEU:HD23	1:39:B:LEU:HD21	12	0.54
(1,803)	1:90:A:LEU:HD23	1:39:A:LEU:HD21	12	0.54
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	16	0.54
(1,652)	1:9:B:MET:HG2	1:9:B:MET:HE2	9	0.54
(1,238)	1:18:B:VAL:HG12	1:19:B:SER:HB2	3	0.54
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD13	12	0.53
(1,4622)	1:44:B:ILE:HG21	1:99:A:TRP:HE1	3	0.53
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	20	0.53
(1,4389)	1:82:A:THR:HG21	1:82:A:THR:H	6	0.53
(1,4154)	1:72:B:ASP:HA	1:74:B:LYS:H	5	0.53
(1,4153)	1:72:A:ASP:HA	1:74:A:LYS:H	5	0.53
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG12	16	0.53
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	15	0.53
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG11	10	0.53
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	11	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2898)	1:20:B:VAL:HG22	1:22:B:VAL:H	13	0.53
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	17	0.53
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	12	0.53
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	17	0.53
(1,2661)	1:6:A:VAL:HG12	1:4:A:HIS:HD2	10	0.53
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	7	0.53
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	7	0.53
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	13	0.53
(1,2240)	1:85:B:THR:HG23	1:106:B:THR:HG21	6	0.53
(1,2239)	1:85:A:THR:HG23	1:106:A:THR:HG21	6	0.53
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	5	0.53
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	14	0.53
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	4	0.53
(1,1320)	1:31:B:ILE:HD13	1:101:B:PHE:HB2	17	0.53
(1,1319)	1:31:A:ILE:HD13	1:101:A:PHE:HB2	17	0.53
(1,1266)	1:64:B:VAL:HG12	1:64:B:VAL:HG23	11	0.53
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG22	18	0.53
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG23	19	0.53
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG21	20	0.53
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG21	9	0.53
(1,1265)	1:64:A:VAL:HG12	1:64:A:VAL:HG23	11	0.53
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG22	18	0.53
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG23	19	0.53
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG21	20	0.53
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG22	7	0.53
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG22	7	0.53
(1,1022)	1:115:B:LYS:HG2	1:76:B:TRP:HA	19	0.53
(1,1021)	1:115:A:LYS:HG2	1:76:A:TRP:HA	19	0.53
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	14	0.53
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD22	16	0.53
(1,804)	1:90:B:LEU:HD22	1:39:B:LEU:HD23	20	0.53
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD22	16	0.53
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	1	0.53
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	13	0.53
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	14	0.53
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	16	0.53
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	19	0.53
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	1	0.53
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	13	0.53
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	14	0.53
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	19	0.53
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD22	1	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD22	1	0.53
(1,284)	1:109:B:VAL:HG12	1:108:B:CYS:H	11	0.53
(1,283)	1:109:A:VAL:HG12	1:108:A:CYS:H	11	0.53
(1,238)	1:18:B:VAL:HG12	1:19:B:SER:HB2	11	0.53
(1,237)	1:18:A:VAL:HG12	1:19:A:SER:HB2	11	0.53
(1,4639)	1:112:A:LEU:HD13	1:71:B:ILE:H	12	0.52
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD12	10	0.52
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD12	13	0.52
(1,4604)	1:12:B:PHE:HE1	1:113:A:SER:HA	17	0.52
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	20	0.52
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	20	0.52
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	20	0.52
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	12	0.52
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG11	10	0.52
(1,3460)	1:107:B:ALA:HB3	1:107:B:ALA:H	7	0.52
(1,3459)	1:107:A:ALA:HB3	1:107:A:ALA:H	7	0.52
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	10	0.52
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	10	0.52
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	12	0.52
(1,2897)	1:20:A:VAL:HG22	1:22:A:VAL:H	13	0.52
(1,2546)	1:87:B:VAL:HB	1:53:B:PHE:HD1	3	0.52
(1,2545)	1:87:A:VAL:HB	1:53:A:PHE:HD1	3	0.52
(1,2437)	1:82:A:THR:HA	1:82:A:THR:HG22	3	0.52
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	13	0.52
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	18	0.52
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	18	0.52
(1,2169)	1:112:A:LEU:HD22	1:71:A:ILE:HB	8	0.52
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	9	0.52
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	9	0.52
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG22	6	0.52
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG21	9	0.52
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG22	12	0.52
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG22	6	0.52
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG22	12	0.52
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	4	0.52
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG13	5	0.52
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG13	5	0.52
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	14	0.52
(1,918)	1:22:B:VAL:HG21	1:20:B:VAL:HB	20	0.52
(1,803)	1:90:A:LEU:HD22	1:39:A:LEU:HD23	20	0.52
(1,238)	1:18:B:VAL:HG13	1:19:B:SER:HB2	8	0.52
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	16	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	17	0.52
(1,237)	1:18:A:VAL:HG13	1:19:A:SER:HB2	8	0.52
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	16	0.52
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	17	0.52
(3,14)	1:85:B:THR:HG21	1:105:B:ASP:HB2	7	0.51
(3,13)	1:85:A:THR:HG21	1:105:A:ASP:HB2	7	0.51
(1,4640)	1:112:B:LEU:HD12	1:71:A:ILE:H	10	0.51
(1,4639)	1:112:A:LEU:HD12	1:71:B:ILE:H	10	0.51
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD12	10	0.51
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD13	12	0.51
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD13	13	0.51
(1,4607)	1:112:A:LEU:HD13	1:14:B:VAL:HG21	13	0.51
(1,4603)	1:12:A:PHE:HE1	1:113:B:SER:HA	17	0.51
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG11	19	0.51
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG11	19	0.51
(1,4288)	1:106:B:THR:HG22	1:85:B:THR:H	3	0.51
(1,4190)	1:39:B:LEU:HD11	1:41:B:GLU:H	9	0.51
(1,4189)	1:39:A:LEU:HD11	1:41:A:GLU:H	5	0.51
(1,4189)	1:39:A:LEU:HD11	1:41:A:GLU:H	9	0.51
(1,3858)	1:72:B:ASP:HA	1:73:B:SER:H	16	0.51
(1,3857)	1:72:A:ASP:HA	1:73:A:SER:H	16	0.51
(1,3462)	1:56:B:THR:HG21	1:107:B:ALA:H	11	0.51
(1,3461)	1:56:A:THR:HG21	1:107:A:ALA:H	11	0.51
(1,3274)	1:80:B:CYS:HB2	1:109:B:VAL:H	17	0.51
(1,3273)	1:80:A:CYS:HB2	1:109:A:VAL:H	17	0.51
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	16	0.51
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	16	0.51
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	6	0.51
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	6	0.51
(1,2898)	1:20:B:VAL:HG23	1:22:B:VAL:H	4	0.51
(1,2897)	1:20:A:VAL:HG23	1:22:A:VAL:H	4	0.51
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	3	0.51
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	3	0.51
(1,2450)	1:41:B:GLU:HG2	1:50:B:ARG:HD2	5	0.51
(1,2438)	1:82:B:THR:HA	1:82:B:THR:HG22	3	0.51
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG23	8	0.51
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG21	17	0.51
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG21	17	0.51
(1,2170)	1:112:B:LEU:HD22	1:71:B:ILE:HB	8	0.51
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	14	0.51
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	14	0.51
(1,1870)	1:76:B:TRP:HB2	1:112:B:LEU:HD22	13	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1869)	1:76:A:TRP:HB2	1:112:A:LEU:HD22	13	0.51
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	14	0.51
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	14	0.51
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	12	0.51
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	12	0.51
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	2	0.51
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	2	0.51
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG21	5	0.51
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG21	8	0.51
(1,1266)	1:64:B:VAL:HG11	1:64:B:VAL:HG21	13	0.51
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG22	15	0.51
(1,1266)	1:64:B:VAL:HG12	1:64:B:VAL:HG23	16	0.51
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG23	1	0.51
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG21	5	0.51
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG21	8	0.51
(1,1265)	1:64:A:VAL:HG11	1:64:A:VAL:HG21	13	0.51
(1,1265)	1:64:A:VAL:HG12	1:64:A:VAL:HG23	16	0.51
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	3	0.51
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	3	0.51
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	4	0.51
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD13	10	0.51
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD13	10	0.51
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG12	18	0.51
(1,917)	1:22:A:VAL:HG21	1:20:A:VAL:HB	20	0.51
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	2	0.51
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	2	0.51
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	17	0.51
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	17	0.51
(1,4640)	1:112:B:LEU:HD13	1:71:A:ILE:H	3	0.5
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD12	9	0.5
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD12	2	0.5
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG21	15	0.5
(1,4287)	1:106:A:THR:HG22	1:85:A:THR:H	3	0.5
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG12	4	0.5
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	10	0.5
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG12	4	0.5
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	10	0.5
(1,3714)	1:53:B:PHE:H	1:53:B:PHE:HZ	14	0.5
(1,3462)	1:56:B:THR:HG22	1:107:B:ALA:H	20	0.5
(1,3461)	1:56:A:THR:HG22	1:107:A:ALA:H	20	0.5
(1,3184)	1:14:B:VAL:HG11	1:110:B:CYS:H	5	0.5
(1,3184)	1:14:B:VAL:HG11	1:110:B:CYS:H	12	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3183)	1:14:A:VAL:HG11	1:110:A:CYS:H	5	0.5
(1,3183)	1:14:A:VAL:HG11	1:110:A:CYS:H	12	0.5
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	4	0.5
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	4	0.5
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	8	0.5
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	12	0.5
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	12	0.5
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG12	4	0.5
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG12	4	0.5
(1,2449)	1:41:A:GLU:HG2	1:50:A:ARG:HD2	5	0.5
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG23	8	0.5
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	7	0.5
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	12	0.5
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	10	0.5
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	10	0.5
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	5	0.5
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	5	0.5
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD13	3	0.5
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD13	3	0.5
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG23	1	0.5
(1,1266)	1:64:B:VAL:HG12	1:64:B:VAL:HG22	3	0.5
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG22	7	0.5
(1,1265)	1:64:A:VAL:HG12	1:64:A:VAL:HG22	3	0.5
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG22	7	0.5
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG22	15	0.5
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG12	18	0.5
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD11	5	0.5
(1,346)	1:118:B:ARG:HG3	1:118:B:ARG:HB2	12	0.5
(1,346)	1:118:B:ARG:HG3	1:118:B:ARG:HB2	15	0.5
(1,346)	1:118:B:ARG:HG3	1:118:B:ARG:HB2	16	0.5
(1,346)	1:118:B:ARG:HG3	1:118:B:ARG:HB2	18	0.5
(1,345)	1:118:A:ARG:HG3	1:118:A:ARG:HB2	12	0.5
(1,345)	1:118:A:ARG:HG3	1:118:A:ARG:HB2	15	0.5
(1,345)	1:118:A:ARG:HG3	1:118:A:ARG:HB2	16	0.5
(1,345)	1:118:A:ARG:HG3	1:118:A:ARG:HB2	18	0.5
(1,4639)	1:112:A:LEU:HD13	1:71:B:ILE:H	3	0.49
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD12	14	0.49
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD12	14	0.49
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	2	0.49
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD12	13	0.49
(1,4586)	1:9:A:MET:HE3	1:118:B:ARG:HG3	13	0.49
(1,4421)	1:76:A:TRP:HE1	1:112:A:LEU:HD23	15	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4190)	1:39:B:LEU:HD11	1:41:B:GLU:H	5	0.49
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	14	0.49
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	12	0.49
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	12	0.49
(1,3713)	1:53:A:PHE:H	1:53:A:PHE:HZ	14	0.49
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG11	20	0.49
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	7	0.49
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	7	0.49
(1,3420)	1:110:B:CYS:HB3	1:15:B:CYS:H	12	0.49
(1,3419)	1:110:A:CYS:HB3	1:15:A:CYS:H	12	0.49
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	14	0.49
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	19	0.49
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	14	0.49
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	8	0.49
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	17	0.49
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	17	0.49
(1,2506)	1:111:B:VAL:HG12	1:79:B:TYR:HE1	3	0.49
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG22	14	0.49
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	14	0.49
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG23	1	0.49
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG23	1	0.49
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	12	0.49
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	19	0.49
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	7	0.49
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	19	0.49
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	7	0.49
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	16	0.49
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG23	17	0.49
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG23	17	0.49
(1,1886)	1:112:B:LEU:HD21	1:77:B:ASN:HA	18	0.49
(1,1885)	1:112:A:LEU:HD21	1:77:A:ASN:HA	18	0.49
(1,1870)	1:76:B:TRP:HB2	1:112:B:LEU:HD21	5	0.49
(1,1869)	1:76:A:TRP:HB2	1:112:A:LEU:HD21	5	0.49
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	19	0.49
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	19	0.49
(1,1795)	1:9:A:MET:HE1	1:7:A:PHE:HD1	10	0.49
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	14	0.49
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	14	0.49
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	11	0.49
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	11	0.49
(1,1320)	1:31:B:ILE:HD13	1:101:B:PHE:HB2	1	0.49
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	13	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1319)	1:31:A:ILE:HD13	1:101:A:PHE:HB2	1	0.49
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD12	18	0.49
(1,1060)	1:6:B:VAL:HG13	1:12:B:PHE:HE1	16	0.49
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	16	0.49
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	16	0.49
(1,886)	1:36:B:VAL:HG11	1:29:B:THR:H	6	0.49
(1,885)	1:36:A:VAL:HG11	1:29:A:THR:H	6	0.49
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD11	2	0.49
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD11	2	0.49
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD11	5	0.49
(1,524)	1:116:B:ALA:HB2	1:117:B:THR:HA	16	0.49
(1,345)	1:118:A:ARG:HG3	1:118:A:ARG:HB2	7	0.49
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG21	20	0.49
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG21	20	0.49
(1,284)	1:109:B:VAL:HG12	1:108:B:CYS:H	7	0.49
(1,283)	1:109:A:VAL:HG12	1:108:A:CYS:H	7	0.49
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	20	0.49
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	20	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	2	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	6	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	9	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	12	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	13	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	15	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	16	0.49
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	20	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	2	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	6	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	9	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	10	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	12	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	13	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	14	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	15	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	16	0.49
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	20	0.49
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD12	1	0.48
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD13	1	0.48
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD12	8	0.48
(1,4608)	1:112:B:LEU:HD13	1:14:A:VAL:HG21	13	0.48
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	4	0.48
(1,4588)	1:9:B:MET:HE2	1:118:A:ARG:HG3	11	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4586)	1:9:A:MET:HE1	1:118:B:ARG:HG3	4	0.48
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	11	0.48
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	11	0.48
(1,4422)	1:76:B:TRP:HE1	1:112:B:LEU:HD23	15	0.48
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	14	0.48
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	14	0.48
(1,3858)	1:72:B:ASP:HA	1:73:B:SER:H	15	0.48
(1,3857)	1:72:A:ASP:HA	1:73:A:SER:H	15	0.48
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	14	0.48
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	19	0.48
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG11	20	0.48
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	1	0.48
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	1	0.48
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	19	0.48
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	19	0.48
(1,2632)	1:6:B:VAL:HG12	1:7:B:PHE:HD1	12	0.48
(1,2631)	1:6:A:VAL:HG12	1:7:A:PHE:HD1	12	0.48
(1,2505)	1:111:A:VAL:HG12	1:79:A:TYR:HE1	3	0.48
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG22	6	0.48
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	6	0.48
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	1	0.48
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	1	0.48
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	7	0.48
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	7	0.48
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	13	0.48
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	16	0.48
(1,1886)	1:112:B:LEU:HD22	1:77:B:ASN:HA	10	0.48
(1,1885)	1:112:A:LEU:HD22	1:77:A:ASN:HA	10	0.48
(1,1806)	1:32:B:LYS:HG3	1:32:B:LYS:HE2	20	0.48
(1,1805)	1:32:A:LYS:HG3	1:32:A:LYS:HE2	20	0.48
(1,1796)	1:9:B:MET:HE1	1:7:B:PHE:HD1	10	0.48
(1,1703)	1:20:A:VAL:HG12	1:55:A:GLU:HG2	1	0.48
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	16	0.48
(1,1436)	1:22:B:VAL:HG13	1:53:B:PHE:HD1	9	0.48
(1,1435)	1:22:A:VAL:HG13	1:53:A:PHE:HD1	9	0.48
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	13	0.48
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD12	18	0.48
(1,1266)	1:64:B:VAL:HG13	1:64:B:VAL:HG22	4	0.48
(1,1059)	1:6:A:VAL:HG13	1:12:A:PHE:HE1	16	0.48
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	11	0.48
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	11	0.48
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD21	20	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD21	20	0.48
(1,523)	1:116:A:ALA:HB2	1:117:A:THR:HA	16	0.48
(1,346)	1:118:B:ARG:HG3	1:118:B:ARG:HB2	7	0.48
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG22	6	0.48
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG22	19	0.48
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG22	19	0.48
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	1	0.48
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	3	0.48
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	8	0.48
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	10	0.48
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	14	0.48
(1,128)	1:115:B:LYS:HD2	1:115:B:LYS:HE2	18	0.48
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	1	0.48
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	3	0.48
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	8	0.48
(1,127)	1:115:A:LYS:HD2	1:115:A:LYS:HE2	18	0.48
(1,4649)	1:112:A:LEU:HD12	1:71:B:ILE:HD13	9	0.47
(1,4389)	1:82:A:THR:HG22	1:82:A:THR:H	1	0.47
(1,4240)	1:75:B:HIS:H	1:115:B:LYS:HB3	19	0.47
(1,4239)	1:75:A:HIS:H	1:115:A:LYS:HB3	19	0.47
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	10	0.47
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	17	0.47
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	17	0.47
(1,3764)	1:18:B:VAL:H	1:57:B:LYS:HB2	15	0.47
(1,3763)	1:18:A:VAL:H	1:57:A:LYS:HB2	15	0.47
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	2	0.47
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	19	0.47
(1,3184)	1:14:B:VAL:HG13	1:110:B:CYS:H	6	0.47
(1,3183)	1:14:A:VAL:HG13	1:110:A:CYS:H	6	0.47
(1,3172)	1:83:B:THR:HG21	1:84:B:HIS:H	3	0.47
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	19	0.47
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	5	0.47
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	8	0.47
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	17	0.47
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	17	0.47
(1,2188)	1:42:B:VAL:HA	1:42:B:VAL:HG12	2	0.47
(1,2187)	1:42:A:VAL:HA	1:42:A:VAL:HG12	2	0.47
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	7	0.47
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	13	0.47
(1,1704)	1:20:B:VAL:HG12	1:55:B:GLU:HG2	1	0.47
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	16	0.47
(1,1320)	1:31:B:ILE:HD11	1:101:B:PHE:HB2	7	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1319)	1:31:A:ILE:HD11	1:101:A:PHE:HB2	7	0.47
(1,1282)	1:25:B:LYS:HE3	1:25:B:LYS:HG2	11	0.47
(1,1265)	1:64:A:VAL:HG13	1:64:A:VAL:HG22	4	0.47
(1,1204)	1:112:B:LEU:HD12	1:71:B:ILE:HA	9	0.47
(1,1203)	1:112:A:LEU:HD12	1:71:A:ILE:HA	9	0.47
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD12	6	0.47
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD12	6	0.47
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	9	0.47
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	9	0.47
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD23	16	0.47
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD23	16	0.47
(1,346)	1:118:B:ARG:HG3	1:118:B:ARG:HB2	2	0.47
(1,346)	1:118:B:ARG:HG3	1:118:B:ARG:HB2	20	0.47
(1,345)	1:118:A:ARG:HG3	1:118:A:ARG:HB2	2	0.47
(1,345)	1:118:A:ARG:HG3	1:118:A:ARG:HB2	20	0.47
(1,288)	1:109:B:VAL:HG11	1:109:B:VAL:HG22	4	0.47
(1,288)	1:109:B:VAL:HG11	1:109:B:VAL:HG22	7	0.47
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG23	8	0.47
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG21	10	0.47
(1,288)	1:109:B:VAL:HG11	1:109:B:VAL:HG21	11	0.47
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG23	12	0.47
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG21	13	0.47
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG22	15	0.47
(1,288)	1:109:B:VAL:HG11	1:109:B:VAL:HG21	16	0.47
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG22	17	0.47
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG23	2	0.47
(1,287)	1:109:A:VAL:HG11	1:109:A:VAL:HG22	4	0.47
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG22	6	0.47
(1,287)	1:109:A:VAL:HG11	1:109:A:VAL:HG22	7	0.47
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG23	8	0.47
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG23	9	0.47
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG21	10	0.47
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG21	13	0.47
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG22	15	0.47
(1,287)	1:109:A:VAL:HG11	1:109:A:VAL:HG21	16	0.47
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG22	17	0.47
(1,238)	1:18:B:VAL:HG12	1:19:B:SER:HB2	10	0.47
(1,200)	1:112:B:LEU:HD13	1:71:B:ILE:HD12	12	0.47
(1,4641)	1:85:A:THR:HA	1:106:B:THR:HG21	7	0.46
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD12	9	0.46
(1,4624)	1:44:B:ILE:HD11	1:99:A:TRP:HD1	13	0.46
(1,4623)	1:44:A:ILE:HD11	1:99:B:TRP:HD1	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD12	8	0.46
(1,4614)	1:112:B:LEU:HD22	1:14:A:VAL:H	5	0.46
(1,4608)	1:112:B:LEU:HD11	1:14:A:VAL:HG21	15	0.46
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG21	20	0.46
(1,4604)	1:12:B:PHE:HE2	1:113:A:SER:HA	16	0.46
(1,4603)	1:12:A:PHE:HE2	1:113:B:SER:HA	16	0.46
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	3	0.46
(1,4564)	1:48:B:VAL:HG11	1:48:B:VAL:H	9	0.46
(1,4564)	1:48:B:VAL:HG12	1:48:B:VAL:H	15	0.46
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	3	0.46
(1,4563)	1:48:A:VAL:HG11	1:48:A:VAL:H	9	0.46
(1,4563)	1:48:A:VAL:HG12	1:48:A:VAL:H	15	0.46
(1,4422)	1:76:B:TRP:HE1	1:112:B:LEU:HD21	5	0.46
(1,4390)	1:82:B:THR:HG22	1:82:B:THR:H	1	0.46
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	10	0.46
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	16	0.46
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	16	0.46
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	17	0.46
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	11	0.46
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	16	0.46
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	16	0.46
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	16	0.46
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	16	0.46
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	2	0.46
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	14	0.46
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	14	0.46
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	18	0.46
(1,3347)	1:25:A:LYS:H	1:22:A:VAL:HG21	14	0.46
(1,3171)	1:83:A:THR:HG21	1:84:A:HIS:H	3	0.46
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	15	0.46
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	15	0.46
(1,2970)	1:64:B:VAL:HG23	1:70:B:GLY:H	2	0.46
(1,2969)	1:64:A:VAL:HG23	1:70:A:GLY:H	2	0.46
(1,2954)	1:27:B:THR:HG21	1:38:B:VAL:H	3	0.46
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	5	0.46
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	14	0.46
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	14	0.46
(1,2810)	1:39:B:LEU:HD22	1:92:B:THR:H	18	0.46
(1,2809)	1:39:A:LEU:HD22	1:92:A:THR:H	18	0.46
(1,2410)	1:34:B:LYS:HB2	1:34:B:LYS:HE3	8	0.46
(1,2410)	1:34:B:LYS:HB2	1:34:B:LYS:HE3	20	0.46
(1,2409)	1:34:A:LYS:HB2	1:34:A:LYS:HE3	5	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2409)	1:34:A:LYS:HB2	1:34:A:LYS:HE3	8	0.46
(1,2409)	1:34:A:LYS:HB2	1:34:A:LYS:HE3	20	0.46
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	14	0.46
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	1	0.46
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	1	0.46
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	6	0.46
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	6	0.46
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG21	12	0.46
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG21	12	0.46
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD12	1	0.46
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD12	1	0.46
(1,1281)	1:25:A:LYS:HE3	1:25:A:LYS:HG2	11	0.46
(1,1023)	1:115:A:LYS:HG2	1:76:A:TRP:H	8	0.46
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG21	8	0.46
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG21	8	0.46
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	5	0.46
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	17	0.46
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	5	0.46
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	13	0.46
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	13	0.46
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	4	0.46
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	7	0.46
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	20	0.46
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	7	0.46
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	20	0.46
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG23	1	0.46
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG23	2	0.46
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG21	3	0.46
(1,288)	1:109:B:VAL:HG12	1:109:B:VAL:HG23	9	0.46
(1,288)	1:109:B:VAL:HG11	1:109:B:VAL:HG22	14	0.46
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG23	1	0.46
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG21	3	0.46
(1,287)	1:109:A:VAL:HG11	1:109:A:VAL:HG21	11	0.46
(1,287)	1:109:A:VAL:HG12	1:109:A:VAL:HG23	12	0.46
(1,287)	1:109:A:VAL:HG11	1:109:A:VAL:HG22	14	0.46
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG22	18	0.46
(1,237)	1:18:A:VAL:HG12	1:19:A:SER:HB2	10	0.46
(1,199)	1:112:A:LEU:HD13	1:71:A:ILE:HD12	12	0.46
(1,4650)	1:112:B:LEU:HD12	1:71:A:ILE:HD13	9	0.45
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG12	20	0.45
(1,4642)	1:85:B:THR:HA	1:106:A:THR:HG21	7	0.45
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD11	11	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD13	19	0.45
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD13	19	0.45
(1,4607)	1:112:A:LEU:HD13	1:14:B:VAL:HG23	17	0.45
(1,4590)	1:9:B:MET:HB2	1:113:A:SER:HB2	13	0.45
(1,4421)	1:76:A:TRP:HE1	1:112:A:LEU:HD21	5	0.45
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	6	0.45
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	17	0.45
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	6	0.45
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	11	0.45
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG12	11	0.45
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG12	11	0.45
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	10	0.45
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	18	0.45
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	18	0.45
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	18	0.45
(1,3418)	1:14:B:VAL:HG13	1:15:B:CYS:H	13	0.45
(1,3417)	1:14:A:VAL:HG13	1:15:A:CYS:H	13	0.45
(1,3348)	1:25:B:LYS:H	1:22:B:VAL:HG21	14	0.45
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	17	0.45
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	17	0.45
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	18	0.45
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	18	0.45
(1,2953)	1:27:A:THR:HG21	1:38:A:VAL:H	3	0.45
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	18	0.45
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	19	0.45
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	20	0.45
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	18	0.45
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	19	0.45
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	20	0.45
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	8	0.45
(1,2410)	1:34:B:LYS:HB2	1:34:B:LYS:HE3	5	0.45
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG22	2	0.45
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG21	10	0.45
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	2	0.45
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG21	10	0.45
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	14	0.45
(1,1838)	1:38:B:VAL:HG13	1:25:B:LYS:H	6	0.45
(1,1837)	1:38:A:VAL:HG13	1:25:A:LYS:H	6	0.45
(1,1693)	1:35:A:GLU:HG3	1:27:A:THR:HG22	8	0.45
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	10	0.45
(1,1286)	1:87:B:VAL:HG13	1:102:B:ILE:HD13	10	0.45
(1,1285)	1:87:A:VAL:HG13	1:102:A:ILE:HD13	10	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1024)	1:115:B:LYS:HG2	1:76:B:TRP:H	8	0.45
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	17	0.45
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	19	0.45
(1,800)	1:90:B:LEU:HD23	1:42:B:VAL:HG21	16	0.45
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	11	0.45
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	4	0.45
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG22	18	0.45
(1,284)	1:109:B:VAL:HG12	1:108:B:CYS:H	16	0.45
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	17	0.45
(1,283)	1:109:A:VAL:HG12	1:108:A:CYS:H	16	0.45
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	17	0.45
(1,4620)	1:44:B:ILE:HG21	1:99:A:TRP:HZ2	1	0.44
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG23	6	0.44
(1,4608)	1:112:B:LEU:HD13	1:14:A:VAL:HG23	17	0.44
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	1	0.44
(1,4564)	1:48:B:VAL:HG12	1:48:B:VAL:H	10	0.44
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	11	0.44
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	1	0.44
(1,4563)	1:48:A:VAL:HG11	1:48:A:VAL:H	5	0.44
(1,4563)	1:48:A:VAL:HG12	1:48:A:VAL:H	10	0.44
(1,4287)	1:106:A:THR:HG23	1:85:A:THR:H	13	0.44
(1,4190)	1:39:B:LEU:HD12	1:41:B:GLU:H	3	0.44
(1,4189)	1:39:A:LEU:HD12	1:41:A:GLU:H	3	0.44
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	10	0.44
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	15	0.44
(1,3581)	1:76:A:TRP:HE1	1:75:A:HIS:HB3	13	0.44
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	5	0.44
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	17	0.44
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	14	0.44
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	15	0.44
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	1	0.44
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	1	0.44
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	13	0.44
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	13	0.44
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG23	5	0.44
(1,2374)	1:38:B:VAL:HG12	1:38:B:VAL:HG23	7	0.44
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG22	9	0.44
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG23	11	0.44
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG23	12	0.44
(1,2374)	1:38:B:VAL:HG12	1:38:B:VAL:HG22	18	0.44
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG22	19	0.44
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG22	20	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	5	0.44
(1,2373)	1:38:A:VAL:HG12	1:38:A:VAL:HG23	7	0.44
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG22	9	0.44
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	11	0.44
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	12	0.44
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	17	0.44
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	19	0.44
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG22	20	0.44
(1,2360)	1:39:B:LEU:HD13	1:98:B:ALA:H	1	0.44
(1,2359)	1:39:A:LEU:HD13	1:98:A:ALA:H	1	0.44
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	8	0.44
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG21	7	0.44
(1,1933)	1:20:A:VAL:HG13	1:55:A:GLU:HG3	2	0.44
(1,1694)	1:35:B:GLU:HG3	1:27:B:THR:HG22	8	0.44
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD12	13	0.44
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	10	0.44
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	14	0.44
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	14	0.44
(1,1268)	1:64:B:VAL:HG12	1:69:B:ARG:HG2	3	0.44
(1,1267)	1:64:A:VAL:HG12	1:69:A:ARG:HG2	3	0.44
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	9	0.44
(1,885)	1:36:A:VAL:HG11	1:29:A:THR:H	15	0.44
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	19	0.44
(1,799)	1:90:A:LEU:HD23	1:42:A:VAL:HG21	16	0.44
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	11	0.44
(1,288)	1:109:B:VAL:HG13	1:109:B:VAL:HG23	5	0.44
(1,287)	1:109:A:VAL:HG13	1:109:A:VAL:HG23	5	0.44
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	15	0.44
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	15	0.44
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD13	16	0.43
(1,4620)	1:44:B:ILE:HG21	1:99:A:TRP:HZ2	20	0.43
(1,4613)	1:112:A:LEU:HD22	1:14:B:VAL:H	5	0.43
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG23	6	0.43
(1,4607)	1:112:A:LEU:HD11	1:14:B:VAL:HG21	15	0.43
(1,4585)	1:9:A:MET:HE1	1:118:B:ARG:HG2	16	0.43
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	4	0.43
(1,4564)	1:48:B:VAL:HG11	1:48:B:VAL:H	5	0.43
(1,4564)	1:48:B:VAL:HG11	1:48:B:VAL:H	7	0.43
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	17	0.43
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	4	0.43
(1,4563)	1:48:A:VAL:HG11	1:48:A:VAL:H	7	0.43
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	11	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4563)	1:48:A:VAL:HG12	1:48:A:VAL:H	16	0.43
(1,4452)	1:107:B:ALA:H	1:83:B:THR:HA	7	0.43
(1,4288)	1:106:B:THR:HG23	1:85:B:THR:H	13	0.43
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD13	20	0.43
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD13	20	0.43
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	7	0.43
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	19	0.43
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	7	0.43
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	15	0.43
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	19	0.43
(1,3582)	1:76:B:TRP:HE1	1:75:B:HIS:HB3	13	0.43
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	5	0.43
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	17	0.43
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	14	0.43
(1,3172)	1:83:B:THR:HG22	1:84:B:HIS:H	13	0.43
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	4	0.43
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	7	0.43
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	16	0.43
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	4	0.43
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	7	0.43
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	16	0.43
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	7	0.43
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	7	0.43
(1,2632)	1:6:B:VAL:HG11	1:7:B:PHE:HD1	5	0.43
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG23	13	0.43
(1,2374)	1:38:B:VAL:HG12	1:38:B:VAL:HG22	16	0.43
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG22	17	0.43
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG23	13	0.43
(1,2373)	1:38:A:VAL:HG12	1:38:A:VAL:HG22	18	0.43
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	8	0.43
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG21	7	0.43
(1,1934)	1:20:B:VAL:HG13	1:55:B:GLU:HG3	2	0.43
(1,1934)	1:20:B:VAL:HG11	1:55:B:GLU:HG3	15	0.43
(1,1933)	1:20:A:VAL:HG11	1:55:A:GLU:HG3	15	0.43
(1,1882)	1:112:B:LEU:HD23	1:71:B:ILE:HA	11	0.43
(1,1881)	1:112:A:LEU:HD23	1:71:A:ILE:HA	11	0.43
(1,1716)	1:104:B:ILE:HG22	1:104:B:ILE:HG13	15	0.43
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD12	13	0.43
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	13	0.43
(1,1285)	1:87:A:VAL:HG13	1:102:A:ILE:HD13	20	0.43
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	9	0.43
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	2	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	2	0.43
(1,886)	1:36:B:VAL:HG11	1:29:B:THR:H	15	0.43
(1,868)	1:18:B:VAL:HG13	1:57:B:LYS:HB2	8	0.43
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	3	0.43
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	10	0.43
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	10	0.43
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	4	0.42
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	14	0.42
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	4	0.42
(1,4586)	1:9:A:MET:HE2	1:118:B:ARG:HG3	11	0.42
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	8	0.42
(1,4564)	1:48:B:VAL:HG12	1:48:B:VAL:H	16	0.42
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	8	0.42
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	17	0.42
(1,4453)	1:82:A:THR:HG21	1:107:A:ALA:H	15	0.42
(1,4451)	1:107:A:ALA:H	1:83:A:THR:HA	7	0.42
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	12	0.42
(1,4252)	1:6:B:VAL:HA	1:7:B:PHE:H	9	0.42
(1,4251)	1:6:A:VAL:HA	1:7:A:PHE:H	9	0.42
(1,4190)	1:39:B:LEU:HD11	1:41:B:GLU:H	7	0.42
(1,4189)	1:39:A:LEU:HD11	1:41:A:GLU:H	7	0.42
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	1	0.42
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	4	0.42
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	8	0.42
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	1	0.42
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	4	0.42
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	8	0.42
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG12	7	0.42
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG12	7	0.42
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	17	0.42
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	13	0.42
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	13	0.42
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	6	0.42
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	19	0.42
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	6	0.42
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	19	0.42
(1,3462)	1:56:B:THR:HG23	1:107:B:ALA:H	5	0.42
(1,3461)	1:56:A:THR:HG23	1:107:A:ALA:H	5	0.42
(1,3460)	1:107:B:ALA:HB3	1:107:B:ALA:H	6	0.42
(1,3459)	1:107:A:ALA:HB3	1:107:A:ALA:H	6	0.42
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	15	0.42
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	18	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	18	0.42
(1,3171)	1:83:A:THR:HG22	1:84:A:HIS:H	13	0.42
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	12	0.42
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	12	0.42
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	18	0.42
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	18	0.42
(1,2631)	1:6:A:VAL:HG11	1:7:A:PHE:HD1	5	0.42
(1,2540)	1:87:B:VAL:HG12	1:53:B:PHE:HD1	12	0.42
(1,2540)	1:87:B:VAL:HG11	1:53:B:PHE:HD1	14	0.42
(1,2539)	1:87:A:VAL:HG12	1:53:A:PHE:HD1	12	0.42
(1,2539)	1:87:A:VAL:HG11	1:53:A:PHE:HD1	14	0.42
(1,2374)	1:38:B:VAL:HG12	1:38:B:VAL:HG23	1	0.42
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG23	3	0.42
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG23	4	0.42
(1,2374)	1:38:B:VAL:HG13	1:38:B:VAL:HG21	8	0.42
(1,2373)	1:38:A:VAL:HG12	1:38:A:VAL:HG23	1	0.42
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	3	0.42
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	4	0.42
(1,2373)	1:38:A:VAL:HG13	1:38:A:VAL:HG21	8	0.42
(1,2373)	1:38:A:VAL:HG12	1:38:A:VAL:HG22	16	0.42
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG21	8	0.42
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG21	8	0.42
(1,1881)	1:112:A:LEU:HD22	1:71:A:ILE:HA	8	0.42
(1,1810)	1:32:B:LYS:HG2	1:32:B:LYS:HE2	8	0.42
(1,1809)	1:32:A:LYS:HG2	1:32:A:LYS:HE2	8	0.42
(1,1716)	1:104:B:ILE:HG23	1:104:B:ILE:HG13	3	0.42
(1,1716)	1:104:B:ILE:HG22	1:104:B:ILE:HG13	5	0.42
(1,1716)	1:104:B:ILE:HG21	1:104:B:ILE:HG13	6	0.42
(1,1716)	1:104:B:ILE:HG21	1:104:B:ILE:HG13	7	0.42
(1,1716)	1:104:B:ILE:HG21	1:104:B:ILE:HG13	8	0.42
(1,1716)	1:104:B:ILE:HG22	1:104:B:ILE:HG13	12	0.42
(1,1716)	1:104:B:ILE:HG21	1:104:B:ILE:HG13	13	0.42
(1,1716)	1:104:B:ILE:HG23	1:104:B:ILE:HG13	16	0.42
(1,1716)	1:104:B:ILE:HG21	1:104:B:ILE:HG13	17	0.42
(1,1716)	1:104:B:ILE:HG23	1:104:B:ILE:HG13	18	0.42
(1,1716)	1:104:B:ILE:HG22	1:104:B:ILE:HG13	20	0.42
(1,1715)	1:104:A:ILE:HG23	1:104:A:ILE:HG13	3	0.42
(1,1715)	1:104:A:ILE:HG22	1:104:A:ILE:HG13	5	0.42
(1,1715)	1:104:A:ILE:HG21	1:104:A:ILE:HG13	6	0.42
(1,1715)	1:104:A:ILE:HG21	1:104:A:ILE:HG13	7	0.42
(1,1715)	1:104:A:ILE:HG21	1:104:A:ILE:HG13	8	0.42
(1,1715)	1:104:A:ILE:HG23	1:104:A:ILE:HG13	11	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1715)	1:104:A:ILE:HG22	1:104:A:ILE:HG13	12	0.42
(1,1715)	1:104:A:ILE:HG21	1:104:A:ILE:HG13	13	0.42
(1,1715)	1:104:A:ILE:HG22	1:104:A:ILE:HG13	15	0.42
(1,1715)	1:104:A:ILE:HG23	1:104:A:ILE:HG13	16	0.42
(1,1715)	1:104:A:ILE:HG21	1:104:A:ILE:HG13	17	0.42
(1,1715)	1:104:A:ILE:HG22	1:104:A:ILE:HG13	20	0.42
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	13	0.42
(1,1286)	1:87:B:VAL:HG13	1:102:B:ILE:HD13	20	0.42
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	3	0.42
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	3	0.42
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	7	0.42
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	7	0.42
(1,867)	1:18:A:VAL:HG13	1:57:A:LYS:HB2	8	0.42
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	3	0.42
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	12	0.42
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	12	0.42
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG11	6	0.41
(1,4606)	1:13:B:SER:H	1:111:A:VAL:HA	19	0.41
(1,4564)	1:48:B:VAL:HG11	1:48:B:VAL:H	13	0.41
(1,4563)	1:48:A:VAL:HG11	1:48:A:VAL:H	13	0.41
(1,4454)	1:82:B:THR:HG21	1:107:B:ALA:H	15	0.41
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	12	0.41
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	12	0.41
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	17	0.41
(1,3858)	1:72:B:ASP:HA	1:73:B:SER:H	8	0.41
(1,3857)	1:72:A:ASP:HA	1:73:A:SER:H	8	0.41
(1,3822)	1:27:B:THR:HG23	1:27:B:THR:H	12	0.41
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	13	0.41
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	1	0.41
(1,3462)	1:56:B:THR:HG21	1:107:B:ALA:H	13	0.41
(1,3461)	1:56:A:THR:HG21	1:107:A:ALA:H	13	0.41
(1,2988)	1:92:B:THR:HA	1:37:B:THR:H	4	0.41
(1,2987)	1:92:A:THR:HA	1:37:A:THR:H	4	0.41
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	10	0.41
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	10	0.41
(1,2506)	1:111:B:VAL:HG12	1:79:B:TYR:HE1	2	0.41
(1,2505)	1:111:A:VAL:HG12	1:79:A:TYR:HE1	2	0.41
(1,2374)	1:38:B:VAL:HG11	1:38:B:VAL:HG23	15	0.41
(1,2373)	1:38:A:VAL:HG11	1:38:A:VAL:HG23	15	0.41
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	18	0.41
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	5	0.41
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	18	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2290)	1:115:B:LYS:HB3	1:76:B:TRP:H	12	0.41
(1,2289)	1:115:A:LYS:HB3	1:76:A:TRP:H	12	0.41
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG22	11	0.41
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG23	12	0.41
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG22	14	0.41
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG22	11	0.41
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG23	12	0.41
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG22	14	0.41
(1,1882)	1:112:B:LEU:HD22	1:71:B:ILE:HA	8	0.41
(1,1796)	1:9:B:MET:HE1	1:7:B:PHE:HD1	6	0.41
(1,1795)	1:9:A:MET:HE1	1:7:A:PHE:HD1	6	0.41
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	1	0.41
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	2	0.41
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	5	0.41
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	8	0.41
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	9	0.41
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	14	0.41
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	17	0.41
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	2	0.41
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	5	0.41
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	8	0.41
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	14	0.41
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	17	0.41
(1,1716)	1:104:B:ILE:HG23	1:104:B:ILE:HG13	4	0.41
(1,1716)	1:104:B:ILE:HG22	1:104:B:ILE:HG13	9	0.41
(1,1716)	1:104:B:ILE:HG23	1:104:B:ILE:HG13	11	0.41
(1,1716)	1:104:B:ILE:HG22	1:104:B:ILE:HG13	14	0.41
(1,1715)	1:104:A:ILE:HG23	1:104:A:ILE:HG13	2	0.41
(1,1715)	1:104:A:ILE:HG23	1:104:A:ILE:HG13	4	0.41
(1,1715)	1:104:A:ILE:HG22	1:104:A:ILE:HG13	9	0.41
(1,1715)	1:104:A:ILE:HG22	1:104:A:ILE:HG13	14	0.41
(1,1715)	1:104:A:ILE:HG23	1:104:A:ILE:HG13	18	0.41
(1,1694)	1:35:B:GLU:HG3	1:27:B:THR:HG21	14	0.41
(1,1693)	1:35:A:GLU:HG3	1:27:A:THR:HG21	14	0.41
(1,1292)	1:102:B:ILE:HD11	1:38:B:VAL:HB	7	0.41
(1,1291)	1:102:A:ILE:HD11	1:38:A:VAL:HB	7	0.41
(1,1258)	1:64:B:VAL:HG11	1:68:B:CYS:H	1	0.41
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG23	2	0.41
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG23	5	0.41
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG23	2	0.41
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG23	5	0.41
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG13	17	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG13	17	0.41
(1,886)	1:36:B:VAL:HG13	1:29:B:THR:H	1	0.41
(1,885)	1:36:A:VAL:HG13	1:29:A:THR:H	1	0.41
(1,868)	1:18:B:VAL:HG13	1:57:B:LYS:HB2	1	0.41
(1,867)	1:18:A:VAL:HG13	1:57:A:LYS:HB2	1	0.41
(1,524)	1:116:B:ALA:HB3	1:117:B:THR:HA	10	0.41
(1,523)	1:116:A:ALA:HB3	1:117:A:THR:HA	4	0.41
(1,523)	1:116:A:ALA:HB3	1:117:A:THR:HA	10	0.41
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	1	0.41
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	1	0.41
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	13	0.41
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG12	20	0.4
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD11	3	0.4
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD11	11	0.4
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD13	16	0.4
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	19	0.4
(1,4603)	1:12:A:PHE:HE2	1:113:B:SER:HA	6	0.4
(1,4601)	1:12:A:PHE:HB3	1:112:B:LEU:HG	1	0.4
(1,4601)	1:12:A:PHE:HB3	1:112:B:LEU:HG	14	0.4
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	12	0.4
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	12	0.4
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	14	0.4
(1,4563)	1:48:A:VAL:HG12	1:48:A:VAL:H	19	0.4
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	10	0.4
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	10	0.4
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	12	0.4
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	18	0.4
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	20	0.4
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	18	0.4
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	20	0.4
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	8	0.4
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	8	0.4
(1,3764)	1:18:B:VAL:H	1:57:B:LYS:HB2	14	0.4
(1,3763)	1:18:A:VAL:H	1:57:A:LYS:HB2	14	0.4
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	13	0.4
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	17	0.4
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	1	0.4
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG12	15	0.4
(1,3148)	1:74:B:LYS:HB3	1:74:B:LYS:H	6	0.4
(1,3147)	1:74:A:LYS:HB3	1:74:A:LYS:H	6	0.4
(1,2954)	1:27:B:THR:HG23	1:38:B:VAL:H	2	0.4
(1,2953)	1:27:A:THR:HG23	1:38:A:VAL:H	2	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	11	0.4
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	1	0.4
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	1	0.4
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	5	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	3	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	4	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	6	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	7	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	10	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	11	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	12	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	15	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	16	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	18	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	19	0.4
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	20	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	1	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	3	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	4	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	6	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	7	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	9	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	10	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	11	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	12	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	15	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	16	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	18	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	19	0.4
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	20	0.4
(1,1716)	1:104:B:ILE:HG21	1:104:B:ILE:HG13	1	0.4
(1,1716)	1:104:B:ILE:HG23	1:104:B:ILE:HG13	2	0.4
(1,1716)	1:104:B:ILE:HG23	1:104:B:ILE:HG13	10	0.4
(1,1715)	1:104:A:ILE:HG21	1:104:A:ILE:HG13	1	0.4
(1,1715)	1:104:A:ILE:HG23	1:104:A:ILE:HG13	10	0.4
(1,1694)	1:35:B:GLU:HG3	1:27:B:THR:HG21	19	0.4
(1,1693)	1:35:A:GLU:HG3	1:27:A:THR:HG21	19	0.4
(1,1635)	1:35:A:GLU:HG2	1:27:A:THR:HG23	1	0.4
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG11	7	0.4
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG11	7	0.4
(1,1257)	1:64:A:VAL:HG11	1:68:A:CYS:H	1	0.4
(1,918)	1:22:B:VAL:HG22	1:20:B:VAL:HB	10	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,917)	1:22:A:VAL:HG22	1:20:A:VAL:HB	10	0.4
(1,887)	1:36:A:VAL:HG12	1:30:A:ASP:HA	20	0.4
(1,868)	1:18:B:VAL:HG12	1:57:B:LYS:HB2	10	0.4
(1,867)	1:18:A:VAL:HG12	1:57:A:LYS:HB2	10	0.4
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	6	0.4
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	6	0.4
(1,660)	1:74:B:LYS:HE2	1:74:B:LYS:HB3	15	0.4
(1,659)	1:74:A:LYS:HE2	1:74:A:LYS:HB3	15	0.4
(1,524)	1:116:B:ALA:HB3	1:117:B:THR:HA	4	0.4
(1,523)	1:116:A:ALA:HB1	1:117:A:THR:HA	13	0.4
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	13	0.4
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD13	2	0.4
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD13	2	0.4
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	14	0.39
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	1	0.39
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG21	20	0.39
(1,4587)	1:9:B:MET:HE1	1:118:A:ARG:HG2	16	0.39
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	14	0.39
(1,4564)	1:48:B:VAL:HG12	1:48:B:VAL:H	19	0.39
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	20	0.39
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	20	0.39
(1,4491)	1:40:A:ALA:HB3	1:40:A:ALA:H	15	0.39
(1,4454)	1:82:B:THR:HG22	1:107:B:ALA:H	14	0.39
(1,4418)	1:112:B:LEU:HD13	1:76:B:TRP:HE1	1	0.39
(1,4417)	1:112:A:LEU:HD13	1:76:A:TRP:HE1	1	0.39
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	19	0.39
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	2	0.39
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	2	0.39
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	1	0.39
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	6	0.39
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	1	0.39
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	6	0.39
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	12	0.39
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	17	0.39
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG12	15	0.39
(1,3462)	1:56:B:THR:HG23	1:107:B:ALA:H	14	0.39
(1,3461)	1:56:A:THR:HG23	1:107:A:ALA:H	14	0.39
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	12	0.39
(1,3459)	1:107:A:ALA:HB1	1:107:A:ALA:H	4	0.39
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	12	0.39
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	11	0.39
(1,2488)	1:86:B:PHE:HD1	1:103:B:ARG:HG3	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2487)	1:86:A:PHE:HD1	1:103:A:ARG:HG3	2	0.39
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	1	0.39
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	13	0.39
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG21	9	0.39
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG21	9	0.39
(1,1786)	1:50:B:ARG:HB2	1:50:B:ARG:HG2	13	0.39
(1,1785)	1:50:A:ARG:HB2	1:50:A:ARG:HG2	13	0.39
(1,1636)	1:35:B:GLU:HG2	1:27:B:THR:HG23	1	0.39
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG11	18	0.39
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG11	18	0.39
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	10	0.39
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	10	0.39
(1,1320)	1:31:B:ILE:HD13	1:101:B:PHE:HB2	11	0.39
(1,1286)	1:87:B:VAL:HG11	1:102:B:ILE:HD12	14	0.39
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD13	15	0.39
(1,1285)	1:87:A:VAL:HG11	1:102:A:ILE:HD12	14	0.39
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	11	0.39
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB2	20	0.39
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB2	20	0.39
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	11	0.39
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	11	0.39
(1,918)	1:22:B:VAL:HG22	1:20:B:VAL:HB	15	0.39
(1,917)	1:22:A:VAL:HG22	1:20:A:VAL:HB	15	0.39
(1,888)	1:36:B:VAL:HG12	1:30:B:ASP:HA	20	0.39
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	5	0.39
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	8	0.39
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	18	0.39
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	5	0.39
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	8	0.39
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	18	0.39
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD22	10	0.39
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD22	10	0.39
(1,524)	1:116:B:ALA:HB1	1:117:B:THR:HA	13	0.39
(1,238)	1:18:B:VAL:HG12	1:19:B:SER:HB2	6	0.39
(1,237)	1:18:A:VAL:HG12	1:19:A:SER:HB2	6	0.39
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	12	0.38
(1,4619)	1:44:A:ILE:HG21	1:99:B:TRP:HZ2	20	0.38
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD12	18	0.38
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD12	18	0.38
(1,4602)	1:12:B:PHE:HB3	1:112:A:LEU:HG	1	0.38
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG22	16	0.38
(1,4595)	1:11:A:GLU:HG3	1:111:B:VAL:HG11	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4589)	1:9:A:MET:HB2	1:113:B:SER:HB2	13	0.38
(1,4492)	1:40:B:ALA:HB3	1:40:B:ALA:H	15	0.38
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	16	0.38
(1,4208)	1:5:B:PRO:HA	1:6:B:VAL:H	9	0.38
(1,4207)	1:5:A:PRO:HA	1:6:A:VAL:H	9	0.38
(1,4186)	1:40:B:ALA:HB1	1:41:B:GLU:H	2	0.38
(1,4185)	1:40:A:ALA:HB1	1:41:A:GLU:H	2	0.38
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	9	0.38
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	9	0.38
(1,3916)	1:39:B:LEU:HD13	1:38:B:VAL:H	5	0.38
(1,3915)	1:39:A:LEU:HD13	1:38:A:VAL:H	5	0.38
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	7	0.38
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	8	0.38
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	8	0.38
(1,3460)	1:107:B:ALA:HB1	1:107:B:ALA:H	4	0.38
(1,2928)	1:59:B:ARG:HB3	1:59:B:ARG:H	13	0.38
(1,2927)	1:59:A:ARG:HB3	1:59:A:ARG:H	13	0.38
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	13	0.38
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	13	0.38
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	14	0.38
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	16	0.38
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	16	0.38
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	1	0.38
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG21	16	0.38
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG21	16	0.38
(1,2170)	1:112:B:LEU:HD21	1:71:B:ILE:HB	3	0.38
(1,2169)	1:112:A:LEU:HD21	1:71:A:ILE:HB	3	0.38
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	13	0.38
(1,1934)	1:20:B:VAL:HG11	1:55:B:GLU:HG3	19	0.38
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG23	4	0.38
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG23	4	0.38
(1,1838)	1:38:B:VAL:HG11	1:25:B:LYS:H	1	0.38
(1,1837)	1:38:A:VAL:HG11	1:25:A:LYS:H	1	0.38
(1,1810)	1:32:B:LYS:HG2	1:32:B:LYS:HE2	7	0.38
(1,1809)	1:32:A:LYS:HG2	1:32:A:LYS:HE2	7	0.38
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	4	0.38
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	4	0.38
(1,1436)	1:22:B:VAL:HG13	1:53:B:PHE:HD1	2	0.38
(1,1435)	1:22:A:VAL:HG13	1:53:A:PHE:HD1	2	0.38
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	5	0.38
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	9	0.38
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	9	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1319)	1:31:A:ILE:HD13	1:101:A:PHE:HB2	11	0.38
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD13	15	0.38
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	11	0.38
(1,1200)	1:112:B:LEU:HD12	1:76:B:TRP:HZ2	15	0.38
(1,1199)	1:112:A:LEU:HD12	1:76:A:TRP:HZ2	15	0.38
(1,1198)	1:112:B:LEU:HD13	1:76:B:TRP:HB2	20	0.38
(1,1197)	1:112:A:LEU:HD13	1:76:A:TRP:HB2	20	0.38
(1,1048)	1:90:B:LEU:HD23	1:97:B:ALA:HB1	19	0.38
(1,1047)	1:90:A:LEU:HD23	1:97:A:ALA:HB1	19	0.38
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	2	0.38
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	2	0.38
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	20	0.38
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	20	0.38
(1,976)	1:18:B:VAL:HG13	1:57:B:LYS:HE2	8	0.38
(1,975)	1:18:A:VAL:HG13	1:57:A:LYS:HE2	8	0.38
(1,918)	1:22:B:VAL:HG21	1:20:B:VAL:HB	3	0.38
(1,918)	1:22:B:VAL:HG23	1:20:B:VAL:HB	4	0.38
(1,917)	1:22:A:VAL:HG21	1:20:A:VAL:HB	3	0.38
(1,828)	1:14:B:VAL:HG11	1:110:B:CYS:HB3	19	0.38
(1,827)	1:14:A:VAL:HG11	1:110:A:CYS:HB3	19	0.38
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD11	6	0.38
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	14	0.38
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG11	6	0.37
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD11	3	0.37
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD12	20	0.37
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD12	20	0.37
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	15	0.37
(1,4619)	1:44:A:ILE:HG21	1:99:B:TRP:HZ2	1	0.37
(1,4607)	1:112:A:LEU:HD13	1:14:B:VAL:HG23	3	0.37
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG22	16	0.37
(1,4596)	1:11:B:GLU:HG3	1:111:A:VAL:HG11	4	0.37
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	19	0.37
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	8	0.37
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	19	0.37
(1,4453)	1:82:A:THR:HG22	1:107:A:ALA:H	14	0.37
(1,4338)	1:25:B:LYS:H	1:23:B:GLY:HA3	17	0.37
(1,4288)	1:106:B:THR:HG22	1:85:B:THR:H	2	0.37
(1,4287)	1:106:A:THR:HG22	1:85:A:THR:H	2	0.37
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	16	0.37
(1,4154)	1:72:B:ASP:HA	1:74:B:LYS:H	19	0.37
(1,4153)	1:72:A:ASP:HA	1:74:A:LYS:H	19	0.37
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	19	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	19	0.37
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	13	0.37
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	18	0.37
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	18	0.37
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	18	0.37
(1,3806)	1:36:B:VAL:HG23	1:93:B:ASP:H	19	0.37
(1,3805)	1:36:A:VAL:HG23	1:93:A:ASP:H	19	0.37
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	7	0.37
(1,3766)	1:56:B:THR:HG23	1:18:B:VAL:H	19	0.37
(1,3765)	1:56:A:THR:HG23	1:18:A:VAL:H	19	0.37
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	18	0.37
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	12	0.37
(1,3723)	1:41:A:GLU:HG2	1:41:A:GLU:H	18	0.37
(1,3640)	1:96:B:GLN:HE21	1:96:B:GLN:HA	4	0.37
(1,3639)	1:96:A:GLN:HE21	1:96:A:GLN:HA	4	0.37
(1,3459)	1:107:A:ALA:HB3	1:107:A:ALA:H	9	0.37
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	16	0.37
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	12	0.37
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	16	0.37
(1,2953)	1:27:A:THR:HG22	1:38:A:VAL:H	5	0.37
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG12	14	0.37
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG12	14	0.37
(1,2450)	1:41:B:GLU:HG2	1:50:B:ARG:HD2	2	0.37
(1,2449)	1:41:A:GLU:HG2	1:50:A:ARG:HD2	2	0.37
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	14	0.37
(1,1933)	1:20:A:VAL:HG11	1:55:A:GLU:HG3	19	0.37
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	15	0.37
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	15	0.37
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG11	8	0.37
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG11	8	0.37
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	5	0.37
(1,1258)	1:64:B:VAL:HG12	1:68:B:CYS:H	20	0.37
(1,1257)	1:64:A:VAL:HG12	1:68:A:CYS:H	20	0.37
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	12	0.37
(1,976)	1:18:B:VAL:HG11	1:57:B:LYS:HE2	17	0.37
(1,975)	1:18:A:VAL:HG11	1:57:A:LYS:HE2	17	0.37
(1,917)	1:22:A:VAL:HG23	1:20:A:VAL:HB	4	0.37
(1,888)	1:36:B:VAL:HG12	1:30:B:ASP:HA	7	0.37
(1,887)	1:36:A:VAL:HG12	1:30:A:ASP:HA	7	0.37
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD11	6	0.37
(1,324)	1:102:B:ILE:HG22	1:28:B:ALA:HB2	2	0.37
(1,323)	1:102:A:ILE:HG22	1:28:A:ALA:HB2	2	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,284)	1:109:B:VAL:HG13	1:108:B:CYS:H	9	0.37
(1,283)	1:109:A:VAL:HG13	1:108:A:CYS:H	9	0.37
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	14	0.37
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD13	7	0.37
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD13	7	0.37
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG11	5	0.37
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG11	5	0.37
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG11	11	0.37
(3,14)	1:85:B:THR:HG23	1:105:B:ASP:HB2	20	0.36
(3,13)	1:85:A:THR:HG23	1:105:A:ASP:HB2	20	0.36
(1,4640)	1:112:B:LEU:HD12	1:71:A:ILE:H	14	0.36
(1,4639)	1:112:A:LEU:HD12	1:71:B:ILE:H	14	0.36
(1,4638)	1:70:B:GLY:H	1:76:A:TRP:HE1	12	0.36
(1,4608)	1:112:B:LEU:HD13	1:14:A:VAL:HG23	3	0.36
(1,4606)	1:13:B:SER:H	1:111:A:VAL:HA	7	0.36
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	7	0.36
(1,4604)	1:12:B:PHE:HE1	1:113:A:SER:HA	4	0.36
(1,4603)	1:12:A:PHE:HE1	1:113:B:SER:HA	4	0.36
(1,4564)	1:48:B:VAL:HG11	1:48:B:VAL:H	18	0.36
(1,4563)	1:48:A:VAL:HG11	1:48:A:VAL:H	18	0.36
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	8	0.36
(1,4337)	1:25:A:LYS:H	1:23:A:GLY:HA3	17	0.36
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	19	0.36
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	13	0.36
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	13	0.36
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	18	0.36
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	1	0.36
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	1	0.36
(1,3724)	1:41:B:GLU:HG2	1:41:B:GLU:H	12	0.36
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	13	0.36
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	13	0.36
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	4	0.36
(1,3460)	1:107:B:ALA:HB3	1:107:B:ALA:H	9	0.36
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	10	0.36
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	13	0.36
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	13	0.36
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	12	0.36
(1,2954)	1:27:B:THR:HG22	1:38:B:VAL:H	5	0.36
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	14	0.36
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	14	0.36
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG22	2	0.36
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG22	2	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG13	6	0.36
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG13	6	0.36
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	17	0.36
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	17	0.36
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	9	0.36
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	9	0.36
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG23	14	0.36
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	19	0.36
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	19	0.36
(1,1809)	1:32:A:LYS:HG2	1:32:A:LYS:HE2	17	0.36
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	5	0.36
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	5	0.36
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	1	0.36
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	1	0.36
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	12	0.36
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	13	0.36
(1,976)	1:18:B:VAL:HG12	1:57:B:LYS:HE2	5	0.36
(1,975)	1:18:A:VAL:HG12	1:57:A:LYS:HE2	5	0.36
(1,888)	1:36:B:VAL:HG12	1:30:B:ASP:HA	19	0.36
(1,887)	1:36:A:VAL:HG12	1:30:A:ASP:HA	19	0.36
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	16	0.36
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	20	0.36
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	16	0.36
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	20	0.36
(1,800)	1:90:B:LEU:HD22	1:42:B:VAL:HG22	15	0.36
(1,799)	1:90:A:LEU:HD22	1:42:A:VAL:HG22	15	0.36
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD13	18	0.36
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD13	18	0.36
(1,200)	1:112:B:LEU:HD13	1:71:B:ILE:HD12	17	0.36
(1,199)	1:112:A:LEU:HD13	1:71:A:ILE:HD12	17	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	1	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	3	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	4	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG11	7	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	8	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG12	10	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG11	11	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	12	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG11	13	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	14	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG12	16	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	17	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG11	18	0.36
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG12	19	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	1	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	4	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG11	7	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	8	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG12	10	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	12	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG11	13	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	14	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG12	15	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG12	16	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	17	0.36
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG12	19	0.36
(1,4607)	1:112:A:LEU:HD12	1:14:B:VAL:HG23	1	0.35
(1,4602)	1:12:B:PHE:HB3	1:112:A:LEU:HG	14	0.35
(1,4492)	1:40:B:ALA:HB3	1:40:B:ALA:H	6	0.35
(1,4491)	1:40:A:ALA:HB3	1:40:A:ALA:H	6	0.35
(1,4486)	1:87:B:VAL:HG21	1:104:B:ILE:H	19	0.35
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	20	0.35
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	12	0.35
(1,3915)	1:39:A:LEU:HD12	1:38:A:VAL:H	20	0.35
(1,3880)	1:22:B:VAL:H	1:53:B:PHE:HB3	9	0.35
(1,3879)	1:22:A:VAL:H	1:53:A:PHE:HB3	9	0.35
(1,3822)	1:27:B:THR:HG23	1:27:B:THR:H	13	0.35
(1,3822)	1:27:B:THR:HG23	1:27:B:THR:H	17	0.35
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	9	0.35
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	17	0.35
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG22	6	0.35
(1,3544)	1:75:B:HIS:H	1:115:B:LYS:HB2	16	0.35
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	4	0.35
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	10	0.35
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	5	0.35
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	19	0.35
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	19	0.35
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	6	0.35
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	6	0.35
(1,1982)	1:8:B:HIS:HB2	1:5:B:PRO:HB3	16	0.35
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG23	14	0.35
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	13	0.35
(1,1810)	1:32:B:LYS:HG2	1:32:B:LYS:HE2	17	0.35
(1,1809)	1:32:A:LYS:HG2	1:32:A:LYS:HE2	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1704)	1:20:B:VAL:HG12	1:55:B:GLU:HG2	14	0.35
(1,1703)	1:20:A:VAL:HG12	1:55:A:GLU:HG2	14	0.35
(1,1650)	1:43:B:ASN:HB2	1:39:B:LEU:HD11	8	0.35
(1,1649)	1:43:A:ASN:HB2	1:39:A:LEU:HD11	8	0.35
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	20	0.35
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	20	0.35
(1,1436)	1:22:B:VAL:HG13	1:53:B:PHE:HD1	18	0.35
(1,1435)	1:22:A:VAL:HG13	1:53:A:PHE:HD1	18	0.35
(1,1410)	1:56:B:THR:HA	1:20:B:VAL:HG22	2	0.35
(1,1409)	1:56:A:THR:HA	1:20:A:VAL:HG22	2	0.35
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	18	0.35
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	18	0.35
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD12	13	0.35
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD12	13	0.35
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	19	0.35
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	13	0.35
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	13	0.35
(1,828)	1:14:B:VAL:HG11	1:110:B:CYS:HB3	12	0.35
(1,828)	1:14:B:VAL:HG12	1:110:B:CYS:HB3	17	0.35
(1,827)	1:14:A:VAL:HG11	1:110:A:CYS:HB3	12	0.35
(1,827)	1:14:A:VAL:HG12	1:110:A:CYS:HB3	17	0.35
(1,826)	1:14:B:VAL:HG13	1:15:B:CYS:HB3	13	0.35
(1,825)	1:14:A:VAL:HG13	1:15:A:CYS:HB3	13	0.35
(1,800)	1:90:B:LEU:HD23	1:42:B:VAL:HG22	6	0.35
(1,666)	1:74:B:LYS:HE2	1:74:B:LYS:HG2	2	0.35
(1,665)	1:74:A:LYS:HE2	1:74:A:LYS:HG2	2	0.35
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	2	0.35
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG11	9	0.35
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG12	15	0.35
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	20	0.35
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	2	0.35
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	3	0.35
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG11	9	0.35
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG11	18	0.35
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	20	0.35
(1,4637)	1:70:A:GLY:H	1:76:B:TRP:HE1	12	0.34
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	12	0.34
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	15	0.34
(1,4626)	1:86:B:PHE:H	1:54:A:PHE:HD2	14	0.34
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD12	12	0.34
(1,4614)	1:112:B:LEU:HD21	1:14:A:VAL:H	3	0.34
(1,4613)	1:112:A:LEU:HD21	1:14:B:VAL:H	3	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	19	0.34
(1,4485)	1:87:A:VAL:HG21	1:104:A:ILE:H	19	0.34
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	7	0.34
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	11	0.34
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	13	0.34
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	7	0.34
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	11	0.34
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	13	0.34
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	1	0.34
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	9	0.34
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	12	0.34
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	15	0.34
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	16	0.34
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	1	0.34
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	9	0.34
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	12	0.34
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	15	0.34
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	16	0.34
(1,3916)	1:39:B:LEU:HD12	1:38:B:VAL:H	12	0.34
(1,3856)	1:73:B:SER:H	1:76:B:TRP:HB3	16	0.34
(1,3855)	1:73:A:SER:H	1:76:A:TRP:HB3	16	0.34
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	17	0.34
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	17	0.34
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG22	18	0.34
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	18	0.34
(1,3543)	1:75:A:HIS:H	1:115:A:LYS:HB2	16	0.34
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	7	0.34
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	7	0.34
(1,3460)	1:107:B:ALA:HB1	1:107:B:ALA:H	1	0.34
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	3	0.34
(1,3460)	1:107:B:ALA:HB3	1:107:B:ALA:H	8	0.34
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	13	0.34
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	17	0.34
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	3	0.34
(1,3459)	1:107:A:ALA:HB3	1:107:A:ALA:H	8	0.34
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	13	0.34
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	17	0.34
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	19	0.34
(1,3364)	1:97:B:ALA:HB1	1:98:B:ALA:H	6	0.34
(1,3363)	1:97:A:ALA:HB1	1:98:A:ALA:H	6	0.34
(1,3351)	1:22:A:VAL:HG12	1:25:A:LYS:H	7	0.34
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	5	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2954)	1:27:B:THR:HG23	1:38:B:VAL:H	16	0.34
(1,2954)	1:27:B:THR:HG21	1:38:B:VAL:H	19	0.34
(1,2953)	1:27:A:THR:HG23	1:38:A:VAL:H	16	0.34
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	12	0.34
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	15	0.34
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	20	0.34
(1,1981)	1:8:A:HIS:HB2	1:5:A:PRO:HB3	16	0.34
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	14	0.34
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	16	0.34
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	1	0.34
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	13	0.34
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	14	0.34
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	16	0.34
(1,1882)	1:112:B:LEU:HD21	1:71:B:ILE:HA	19	0.34
(1,1881)	1:112:A:LEU:HD21	1:71:A:ILE:HA	19	0.34
(1,1810)	1:32:B:LYS:HG2	1:32:B:LYS:HE2	2	0.34
(1,1756)	1:39:B:LEU:HG	1:37:B:THR:HA	14	0.34
(1,1755)	1:39:A:LEU:HG	1:37:A:THR:HA	14	0.34
(1,1704)	1:20:B:VAL:HG12	1:55:B:GLU:HG2	10	0.34
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	2	0.34
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG21	3	0.34
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	11	0.34
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	11	0.34
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG11	19	0.34
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG21	8	0.34
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG21	8	0.34
(1,1211)	1:71:A:ILE:HD11	1:76:A:TRP:HB3	16	0.34
(1,1198)	1:112:B:LEU:HD13	1:76:B:TRP:HB2	6	0.34
(1,1197)	1:112:A:LEU:HD13	1:76:A:TRP:HB2	6	0.34
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	13	0.34
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	16	0.34
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	19	0.34
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG11	15	0.34
(1,799)	1:90:A:LEU:HD23	1:42:A:VAL:HG22	6	0.34
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB2	5	0.33
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB2	5	0.33
(1,4643)	1:85:A:THR:HG21	1:106:B:THR:HG23	10	0.33
(1,4606)	1:13:B:SER:H	1:111:A:VAL:HA	10	0.33
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	10	0.33
(1,4454)	1:82:B:THR:HG21	1:107:B:ALA:H	2	0.33
(1,4453)	1:82:A:THR:HG21	1:107:A:ALA:H	2	0.33
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	4	0.33
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	4	0.33
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	14	0.33
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	14	0.33
(1,4179)	1:117:A:THR:HB	1:118:A:ARG:H	15	0.33
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	3	0.33
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	4	0.33
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	7	0.33
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	8	0.33
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	11	0.33
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	13	0.33
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	17	0.33
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	20	0.33
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	4	0.33
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	7	0.33
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	8	0.33
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	11	0.33
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	13	0.33
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	17	0.33
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	20	0.33
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	9	0.33
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	14	0.33
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	14	0.33
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	6	0.33
(1,3522)	1:41:B:GLU:HB3	1:40:B:ALA:H	16	0.33
(1,3521)	1:41:A:GLU:HB3	1:40:A:ALA:H	16	0.33
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	13	0.33
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	16	0.33
(1,3459)	1:107:A:ALA:HB1	1:107:A:ALA:H	1	0.33
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	16	0.33
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	19	0.33
(1,3352)	1:22:B:VAL:HG12	1:25:B:LYS:H	7	0.33
(1,2953)	1:27:A:THR:HG21	1:38:A:VAL:H	19	0.33
(1,2487)	1:86:A:PHE:HD1	1:103:A:ARG:HG3	16	0.33
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	12	0.33
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG23	20	0.33
(1,2281)	1:44:A:ILE:HB	1:42:A:VAL:HG23	20	0.33
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	12	0.33
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	12	0.33
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	15	0.33
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	20	0.33
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG21	13	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1980)	1:5:B:PRO:HB3	1:6:B:VAL:HG23	19	0.33
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG21	13	0.33
(1,1979)	1:5:A:PRO:HB3	1:6:A:VAL:HG23	19	0.33
(1,1934)	1:20:B:VAL:HG13	1:55:B:GLU:HG3	5	0.33
(1,1933)	1:20:A:VAL:HG13	1:55:A:GLU:HG3	5	0.33
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	1	0.33
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	4	0.33
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	10	0.33
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	11	0.33
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	15	0.33
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	17	0.33
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	20	0.33
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	4	0.33
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	10	0.33
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	11	0.33
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	15	0.33
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	17	0.33
(1,1882)	1:112:B:LEU:HD22	1:71:B:ILE:HA	5	0.33
(1,1881)	1:112:A:LEU:HD22	1:71:A:ILE:HA	5	0.33
(1,1703)	1:20:A:VAL:HG12	1:55:A:GLU:HG2	10	0.33
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG21	3	0.33
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	17	0.33
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	17	0.33
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	2	0.33
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG21	3	0.33
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG11	19	0.33
(1,1436)	1:22:B:VAL:HG13	1:53:B:PHE:HD1	16	0.33
(1,1435)	1:22:A:VAL:HG13	1:53:A:PHE:HD1	16	0.33
(1,1212)	1:71:B:ILE:HD11	1:76:B:TRP:HB3	16	0.33
(1,1058)	1:6:B:VAL:HG11	1:9:B:MET:H	5	0.33
(1,1057)	1:6:A:VAL:HG11	1:9:A:MET:H	5	0.33
(1,1056)	1:9:B:MET:HG2	1:6:B:VAL:HG13	5	0.33
(1,1055)	1:9:A:MET:HG2	1:6:A:VAL:HG13	5	0.33
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	16	0.33
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	18	0.33
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	18	0.33
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	8	0.33
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG11	12	0.33
(1,867)	1:18:A:VAL:HG12	1:57:A:LYS:HB2	11	0.33
(1,828)	1:14:B:VAL:HG13	1:110:B:CYS:HB3	8	0.33
(1,828)	1:14:B:VAL:HG13	1:110:B:CYS:HB3	15	0.33
(1,827)	1:14:A:VAL:HG13	1:110:A:CYS:HB3	8	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	3	0.33
(1,382)	1:6:B:VAL:HG12	1:6:B:VAL:HB	8	0.33
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	9	0.33
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	14	0.33
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	16	0.33
(1,381)	1:6:A:VAL:HG11	1:6:A:VAL:HB	3	0.33
(1,381)	1:6:A:VAL:HG12	1:6:A:VAL:HB	8	0.33
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	9	0.33
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	16	0.33
(1,381)	1:6:A:VAL:HG11	1:6:A:VAL:HB	17	0.33
(1,374)	1:100:B:ARG:HG3	1:100:B:ARG:HB3	6	0.33
(1,373)	1:100:A:ARG:HG3	1:100:A:ARG:HB3	6	0.33
(1,10)	1:48:B:VAL:HB	1:48:B:VAL:HG13	6	0.33
(1,9)	1:48:A:VAL:HB	1:48:A:VAL:HG13	6	0.33
(1,4648)	1:108:B:CYS:H	1:109:A:VAL:HG11	12	0.32
(1,4644)	1:85:B:THR:HG21	1:106:A:THR:HG23	10	0.32
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	16	0.32
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD12	12	0.32
(1,4604)	1:12:B:PHE:HE2	1:113:A:SER:HA	13	0.32
(1,4586)	1:9:A:MET:HE1	1:118:B:ARG:HG3	19	0.32
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	2	0.32
(1,4344)	1:25:B:LYS:HB2	1:25:B:LYS:H	18	0.32
(1,4343)	1:25:A:LYS:HB2	1:25:A:LYS:H	18	0.32
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	19	0.32
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	1	0.32
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	8	0.32
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	19	0.32
(1,4252)	1:6:B:VAL:HA	1:7:B:PHE:H	5	0.32
(1,4251)	1:6:A:VAL:HA	1:7:A:PHE:H	5	0.32
(1,4190)	1:39:B:LEU:HD13	1:41:B:GLU:H	18	0.32
(1,4189)	1:39:A:LEU:HD13	1:41:A:GLU:H	18	0.32
(1,4180)	1:117:B:THR:HB	1:118:B:ARG:H	15	0.32
(1,4170)	1:20:B:VAL:HG11	1:20:B:VAL:H	7	0.32
(1,4169)	1:20:A:VAL:HG11	1:20:A:VAL:H	7	0.32
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	5	0.32
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	9	0.32
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	10	0.32
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	14	0.32
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	15	0.32
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	10	0.32
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	14	0.32
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	15	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	6	0.32
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	18	0.32
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	19	0.32
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	3	0.32
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	6	0.32
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	18	0.32
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	19	0.32
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD11	6	0.32
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG11	5	0.32
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG11	5	0.32
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	20	0.32
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	20	0.32
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	4	0.32
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	12	0.32
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	13	0.32
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	4	0.32
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	12	0.32
(1,3216)	1:26:B:THR:H	1:26:B:THR:HB	7	0.32
(1,3215)	1:26:A:THR:H	1:26:A:THR:HB	7	0.32
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	2	0.32
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	8	0.32
(1,2488)	1:86:B:PHE:HD1	1:103:B:ARG:HG3	16	0.32
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD12	18	0.32
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	3	0.32
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	8	0.32
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	10	0.32
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	12	0.32
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	15	0.32
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	16	0.32
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	20	0.32
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	3	0.32
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	8	0.32
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	12	0.32
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	15	0.32
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	16	0.32
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	20	0.32
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	1	0.32
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	10	0.32
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	13	0.32
(1,2164)	1:59:B:ARG:HG3	1:18:B:VAL:H	8	0.32
(1,2163)	1:59:A:ARG:HG3	1:18:A:VAL:H	8	0.32
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	18	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	18	0.32
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG23	8	0.32
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	20	0.32
(1,1882)	1:112:B:LEU:HD23	1:71:B:ILE:HA	13	0.32
(1,1881)	1:112:A:LEU:HD23	1:71:A:ILE:HA	13	0.32
(1,1804)	1:34:B:LYS:HG2	1:34:B:LYS:HB2	6	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	1	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG21	2	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG22	4	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	5	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG21	8	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG22	9	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG22	10	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	11	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG21	12	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	13	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	14	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG22	15	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	16	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	18	0.32
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	19	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	1	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG21	3	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG22	4	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	5	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG21	8	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG22	9	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG22	10	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	11	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG21	12	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	13	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	14	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG22	15	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	16	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	18	0.32
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	19	0.32
(1,1348)	1:57:B:LYS:HG2	1:57:B:LYS:HE3	2	0.32
(1,1347)	1:57:A:LYS:HG2	1:57:A:LYS:HE3	2	0.32
(1,1292)	1:102:B:ILE:HD11	1:38:B:VAL:HB	5	0.32
(1,1258)	1:64:B:VAL:HG11	1:68:B:CYS:H	4	0.32
(1,1258)	1:64:B:VAL:HG11	1:68:B:CYS:H	5	0.32
(1,1257)	1:64:A:VAL:HG11	1:68:A:CYS:H	4	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1257)	1:64:A:VAL:HG11	1:68:A:CYS:H	5	0.32
(1,1204)	1:112:B:LEU:HD11	1:71:B:ILE:HA	15	0.32
(1,1203)	1:112:A:LEU:HD11	1:71:A:ILE:HA	15	0.32
(1,1048)	1:90:B:LEU:HD23	1:97:B:ALA:HB2	14	0.32
(1,1047)	1:90:A:LEU:HD23	1:97:A:ALA:HB2	14	0.32
(1,1022)	1:115:B:LYS:HG2	1:76:B:TRP:HA	20	0.32
(1,1021)	1:115:A:LYS:HG2	1:76:A:TRP:HA	20	0.32
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	8	0.32
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	10	0.32
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	19	0.32
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	10	0.32
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	19	0.32
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG11	12	0.32
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG11	15	0.32
(1,976)	1:18:B:VAL:HG11	1:57:B:LYS:HE2	20	0.32
(1,868)	1:18:B:VAL:HG12	1:57:B:LYS:HB2	11	0.32
(1,827)	1:14:A:VAL:HG13	1:110:A:CYS:HB3	15	0.32
(1,800)	1:90:B:LEU:HD23	1:42:B:VAL:HG22	18	0.32
(1,799)	1:90:A:LEU:HD23	1:42:A:VAL:HG22	18	0.32
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	4	0.32
(1,382)	1:6:B:VAL:HG11	1:6:B:VAL:HB	5	0.32
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	10	0.32
(1,382)	1:6:B:VAL:HG12	1:6:B:VAL:HB	11	0.32
(1,382)	1:6:B:VAL:HG12	1:6:B:VAL:HB	15	0.32
(1,382)	1:6:B:VAL:HG11	1:6:B:VAL:HB	17	0.32
(1,382)	1:6:B:VAL:HG12	1:6:B:VAL:HB	18	0.32
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	19	0.32
(1,382)	1:6:B:VAL:HG12	1:6:B:VAL:HB	20	0.32
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	4	0.32
(1,381)	1:6:A:VAL:HG11	1:6:A:VAL:HB	5	0.32
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	10	0.32
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	14	0.32
(1,381)	1:6:A:VAL:HG12	1:6:A:VAL:HB	15	0.32
(1,381)	1:6:A:VAL:HG12	1:6:A:VAL:HB	18	0.32
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	19	0.32
(1,381)	1:6:A:VAL:HG12	1:6:A:VAL:HB	20	0.32
(1,324)	1:102:B:ILE:HG22	1:28:B:ALA:HB2	3	0.32
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB2	14	0.32
(1,323)	1:102:A:ILE:HG22	1:28:A:ALA:HB2	3	0.32
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB2	14	0.32
(1,4604)	1:12:B:PHE:HE2	1:113:A:SER:HA	6	0.31
(1,4564)	1:48:B:VAL:HG13	1:48:B:VAL:H	2	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4563)	1:48:A:VAL:HG13	1:48:A:VAL:H	2	0.31
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	13	0.31
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	14	0.31
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	2	0.31
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	14	0.31
(1,4338)	1:25:B:LYS:H	1:23:B:GLY:HA3	7	0.31
(1,4337)	1:25:A:LYS:H	1:23:A:GLY:HA3	7	0.31
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	8	0.31
(1,4170)	1:20:B:VAL:HG11	1:20:B:VAL:H	18	0.31
(1,4169)	1:20:A:VAL:HG11	1:20:A:VAL:H	18	0.31
(1,4116)	1:72:B:ASP:H	1:76:B:TRP:HE1	5	0.31
(1,4115)	1:72:A:ASP:H	1:76:A:TRP:HE1	5	0.31
(1,4066)	1:100:B:ARG:HB3	1:100:B:ARG:H	3	0.31
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	3	0.31
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	5	0.31
(1,4065)	1:100:A:ARG:HB3	1:100:A:ARG:H	9	0.31
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	5	0.31
(1,4060)	1:62:B:ASN:HD22	1:62:B:ASN:HB2	14	0.31
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	5	0.31
(1,4059)	1:62:A:ASN:HD22	1:62:A:ASN:HB2	14	0.31
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD11	6	0.31
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	1	0.31
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	1	0.31
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	10	0.31
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	1	0.31
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	5	0.31
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	9	0.31
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	18	0.31
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	5	0.31
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	9	0.31
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	18	0.31
(1,3462)	1:56:B:THR:HG21	1:107:B:ALA:H	12	0.31
(1,3462)	1:56:B:THR:HG22	1:107:B:ALA:H	15	0.31
(1,3461)	1:56:A:THR:HG21	1:107:A:ALA:H	12	0.31
(1,3461)	1:56:A:THR:HG22	1:107:A:ALA:H	15	0.31
(1,3460)	1:107:B:ALA:HB1	1:107:B:ALA:H	5	0.31
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	20	0.31
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	20	0.31
(1,3184)	1:14:B:VAL:HG13	1:110:B:CYS:H	3	0.31
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	2	0.31
(1,2803)	1:92:A:THR:H	1:37:A:THR:HB	14	0.31
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	8	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	4	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG23	1	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	3	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	4	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	6	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	7	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	8	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG22	11	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	13	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	15	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	16	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG22	17	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG22	18	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG23	19	0.31
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG23	20	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	1	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	3	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	4	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	5	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG22	6	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	7	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	8	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG23	9	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	10	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG22	11	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG22	12	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	13	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG22	14	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	15	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	16	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG22	17	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG22	18	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	19	0.31
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG23	20	0.31
(1,2332)	1:59:B:ARG:HG3	1:59:B:ARG:HD3	13	0.31
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	10	0.31
(1,2331)	1:59:A:ARG:HG3	1:59:A:ARG:HD3	13	0.31
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	1	0.31
(1,2288)	1:42:B:VAL:HG23	1:99:B:TRP:HZ2	9	0.31
(1,2240)	1:85:B:THR:HG22	1:106:B:THR:HG23	13	0.31
(1,2239)	1:85:A:THR:HG22	1:106:A:THR:HG23	13	0.31
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	10	0.31
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	13	0.31
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG23	8	0.31
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG23	15	0.31
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG23	15	0.31
(1,1882)	1:112:B:LEU:HD21	1:71:B:ILE:HA	1	0.31
(1,1881)	1:112:A:LEU:HD21	1:71:A:ILE:HA	1	0.31
(1,1838)	1:38:B:VAL:HG13	1:25:B:LYS:H	4	0.31
(1,1803)	1:34:A:LYS:HG2	1:34:A:LYS:HB2	6	0.31
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	15	0.31
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	15	0.31
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG21	2	0.31
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG23	7	0.31
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG21	2	0.31
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG23	7	0.31
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG21	13	0.31
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	1	0.31
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	1	0.31
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	20	0.31
(1,1320)	1:31:B:ILE:HD11	1:101:B:PHE:HB2	20	0.31
(1,1319)	1:31:A:ILE:HD11	1:101:A:PHE:HB2	20	0.31
(1,1292)	1:102:B:ILE:HD11	1:38:B:VAL:HB	6	0.31
(1,1291)	1:102:A:ILE:HD11	1:38:A:VAL:HB	5	0.31
(1,1291)	1:102:A:ILE:HD11	1:38:A:VAL:HB	6	0.31
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG22	17	0.31
(1,1022)	1:115:B:LYS:HG2	1:76:B:TRP:HA	5	0.31
(1,1021)	1:115:A:LYS:HG2	1:76:A:TRP:HA	5	0.31
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	7	0.31
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	7	0.31
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	3	0.31
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	3	0.31
(1,975)	1:18:A:VAL:HG11	1:57:A:LYS:HE2	20	0.31
(1,868)	1:18:B:VAL:HG12	1:57:B:LYS:HB2	5	0.31
(1,867)	1:18:A:VAL:HG12	1:57:A:LYS:HB2	5	0.31
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD11	15	0.31
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD13	16	0.31
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD11	15	0.31
(1,524)	1:116:B:ALA:HB1	1:117:B:THR:HA	9	0.31
(1,523)	1:116:A:ALA:HB1	1:117:A:THR:HA	9	0.31
(1,382)	1:6:B:VAL:HG12	1:6:B:VAL:HB	1	0.31
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	6	0.31
(1,382)	1:6:B:VAL:HG11	1:6:B:VAL:HB	7	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,382)	1:6:B:VAL:HG12	1:6:B:VAL:HB	12	0.31
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	13	0.31
(1,381)	1:6:A:VAL:HG12	1:6:A:VAL:HB	1	0.31
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	2	0.31
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	6	0.31
(1,381)	1:6:A:VAL:HG11	1:6:A:VAL:HB	7	0.31
(1,381)	1:6:A:VAL:HG12	1:6:A:VAL:HB	11	0.31
(1,381)	1:6:A:VAL:HG12	1:6:A:VAL:HB	12	0.31
(1,381)	1:6:A:VAL:HG13	1:6:A:VAL:HB	13	0.31
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB3	11	0.31
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB3	11	0.31
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD13	4	0.31
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD13	4	0.31
(1,4647)	1:108:A:CYS:H	1:109:B:VAL:HG11	12	0.3
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD13	4	0.3
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD13	4	0.3
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	15	0.3
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	13	0.3
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	15	0.3
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	18	0.3
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	18	0.3
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	5	0.3
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	5	0.3
(1,4239)	1:75:A:HIS:H	1:115:A:LYS:HB3	17	0.3
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	13	0.3
(1,4170)	1:20:B:VAL:HG13	1:20:B:VAL:H	5	0.3
(1,4169)	1:20:A:VAL:HG13	1:20:A:VAL:H	5	0.3
(1,4169)	1:20:A:VAL:HG11	1:20:A:VAL:H	8	0.3
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG11	19	0.3
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG11	19	0.3
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG22	1	0.3
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	6	0.3
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	6	0.3
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	10	0.3
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	16	0.3
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	10	0.3
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	11	0.3
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	16	0.3
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG12	3	0.3
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG12	3	0.3
(1,3480)	1:109:B:VAL:HG23	1:111:B:VAL:H	17	0.3
(1,3479)	1:109:A:VAL:HG23	1:111:A:VAL:H	17	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3459)	1:107:A:ALA:HB1	1:107:A:ALA:H	5	0.3
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	20	0.3
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	20	0.3
(1,3184)	1:14:B:VAL:HG13	1:110:B:CYS:H	15	0.3
(1,3183)	1:14:A:VAL:HG13	1:110:A:CYS:H	3	0.3
(1,3183)	1:14:A:VAL:HG13	1:110:A:CYS:H	15	0.3
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	15	0.3
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	15	0.3
(1,2844)	1:64:B:VAL:HG21	1:67:B:GLY:H	19	0.3
(1,2804)	1:92:B:THR:H	1:37:B:THR:HB	14	0.3
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	17	0.3
(1,2630)	1:7:B:PHE:HD1	1:12:B:PHE:H	15	0.3
(1,2629)	1:7:A:PHE:HD1	1:12:A:PHE:H	15	0.3
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	4	0.3
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	2	0.3
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	5	0.3
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG23	9	0.3
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG21	10	0.3
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG22	12	0.3
(1,2398)	1:37:B:THR:HB	1:37:B:THR:HG22	14	0.3
(1,2397)	1:37:A:THR:HB	1:37:A:THR:HG21	2	0.3
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD12	18	0.3
(1,2287)	1:42:A:VAL:HG23	1:99:A:TRP:HZ2	9	0.3
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	7	0.3
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	13	0.3
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	19	0.3
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	13	0.3
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	19	0.3
(1,1837)	1:38:A:VAL:HG13	1:25:A:LYS:H	4	0.3
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	9	0.3
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG21	2	0.3
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG21	6	0.3
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG21	6	0.3
(1,1644)	1:43:B:ASN:HB3	1:48:B:VAL:HG21	6	0.3
(1,1643)	1:43:A:ASN:HB3	1:48:A:VAL:HG21	6	0.3
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG21	13	0.3
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	10	0.3
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	10	0.3
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	11	0.3
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	20	0.3
(1,1268)	1:64:B:VAL:HG11	1:69:B:ARG:HG2	15	0.3
(1,1267)	1:64:A:VAL:HG11	1:69:A:ARG:HG2	15	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG22	17	0.3
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	3	0.3
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	5	0.3
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	6	0.3
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	3	0.3
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	6	0.3
(1,772)	1:87:B:VAL:HG11	1:104:B:ILE:HD13	17	0.3
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD13	16	0.3
(1,771)	1:87:A:VAL:HG11	1:104:A:ILE:HD13	17	0.3
(1,383)	1:6:A:VAL:HG12	1:10:A:GLY:HA2	15	0.3
(1,382)	1:6:B:VAL:HG13	1:6:B:VAL:HB	2	0.3
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB1	10	0.3
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB1	10	0.3
(3,2)	1:9:B:MET:HE1	1:8:B:HIS:HB2	10	0.29
(3,1)	1:9:A:MET:HE1	1:8:A:HIS:HB2	10	0.29
(2,25)	1:49:A:PHE:H	1:44:A:ILE:HB	15	0.29
(2,24)	1:49:B:PHE:HD1	1:44:B:ILE:H	20	0.29
(2,23)	1:49:A:PHE:HD1	1:44:A:ILE:H	20	0.29
(1,4639)	1:112:A:LEU:HD11	1:71:B:ILE:H	11	0.29
(1,4608)	1:112:B:LEU:HD12	1:14:A:VAL:HG23	1	0.29
(1,4606)	1:13:B:SER:H	1:111:A:VAL:HA	11	0.29
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	16	0.29
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	16	0.29
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	7	0.29
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	18	0.29
(1,4240)	1:75:B:HIS:H	1:115:B:LYS:HB3	17	0.29
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	13	0.29
(1,4190)	1:39:B:LEU:HD11	1:41:B:GLU:H	17	0.29
(1,4189)	1:39:A:LEU:HD11	1:41:A:GLU:H	17	0.29
(1,4170)	1:20:B:VAL:HG11	1:20:B:VAL:H	8	0.29
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	9	0.29
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	11	0.29
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	16	0.29
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	9	0.29
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	16	0.29
(1,3806)	1:36:B:VAL:HG22	1:93:B:ASP:H	13	0.29
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	20	0.29
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	20	0.29
(1,3766)	1:56:B:THR:HG21	1:18:B:VAL:H	12	0.29
(1,3765)	1:56:A:THR:HG21	1:18:A:VAL:H	12	0.29
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	5	0.29
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	5	0.29
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG23	4	0.29
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	3	0.29
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	3	0.29
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	3	0.29
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	11	0.29
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	15	0.29
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	17	0.29
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	3	0.29
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	15	0.29
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	17	0.29
(1,3460)	1:107:B:ALA:HB3	1:107:B:ALA:H	15	0.29
(1,3459)	1:107:A:ALA:HB3	1:107:A:ALA:H	15	0.29
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	7	0.29
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	7	0.29
(1,2954)	1:27:B:THR:HG21	1:38:B:VAL:H	1	0.29
(1,2843)	1:64:A:VAL:HG21	1:67:A:GLY:H	19	0.29
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	17	0.29
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD11	3	0.29
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	19	0.29
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	19	0.29
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	11	0.29
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	11	0.29
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	12	0.29
(1,1918)	1:74:B:LYS:HB3	1:74:B:LYS:HD3	7	0.29
(1,1917)	1:74:A:LYS:HB3	1:74:A:LYS:HD3	7	0.29
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	14	0.29
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	14	0.29
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	9	0.29
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG22	6	0.29
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	12	0.29
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	12	0.29
(1,1696)	1:35:B:GLU:HG3	1:35:B:GLU:HB2	1	0.29
(1,1696)	1:35:B:GLU:HG3	1:35:B:GLU:HB2	4	0.29
(1,1695)	1:35:A:GLU:HG3	1:35:A:GLU:HB2	1	0.29
(1,1695)	1:35:A:GLU:HG3	1:35:A:GLU:HB2	4	0.29
(1,1660)	1:48:B:VAL:HB	1:48:B:VAL:HG21	20	0.29
(1,1659)	1:48:A:VAL:HB	1:48:A:VAL:HG21	20	0.29
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	8	0.29
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG21	10	0.29
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	8	0.29
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG21	10	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG23	16	0.29
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	2	0.29
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	2	0.29
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	3	0.29
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	11	0.29
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	3	0.29
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	8	0.29
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	8	0.29
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG21	15	0.29
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG21	15	0.29
(1,1198)	1:112:B:LEU:HD11	1:76:B:TRP:HB2	3	0.29
(1,1197)	1:112:A:LEU:HD11	1:76:A:TRP:HB2	3	0.29
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	8	0.29
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	5	0.29
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	8	0.29
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	6	0.29
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	6	0.29
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	14	0.29
(1,772)	1:87:B:VAL:HG13	1:104:B:ILE:HD11	8	0.29
(1,771)	1:87:A:VAL:HG13	1:104:A:ILE:HD11	8	0.29
(1,524)	1:116:B:ALA:HB2	1:117:B:THR:HA	18	0.29
(1,523)	1:116:A:ALA:HB2	1:117:A:THR:HA	18	0.29
(1,384)	1:6:B:VAL:HG12	1:10:B:GLY:HA2	15	0.29
(1,8)	1:6:B:VAL:HG22	1:6:B:VAL:HB	3	0.29
(1,8)	1:6:B:VAL:HG23	1:6:B:VAL:HB	4	0.29
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	6	0.29
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	8	0.29
(1,8)	1:6:B:VAL:HG23	1:6:B:VAL:HB	9	0.29
(1,8)	1:6:B:VAL:HG23	1:6:B:VAL:HB	11	0.29
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	12	0.29
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	13	0.29
(1,8)	1:6:B:VAL:HG22	1:6:B:VAL:HB	15	0.29
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	16	0.29
(1,8)	1:6:B:VAL:HG22	1:6:B:VAL:HB	17	0.29
(1,8)	1:6:B:VAL:HG23	1:6:B:VAL:HB	18	0.29
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	20	0.29
(1,7)	1:6:A:VAL:HG22	1:6:A:VAL:HB	3	0.29
(1,7)	1:6:A:VAL:HG23	1:6:A:VAL:HB	4	0.29
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	6	0.29
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	8	0.29
(1,7)	1:6:A:VAL:HG23	1:6:A:VAL:HB	9	0.29
(1,7)	1:6:A:VAL:HG23	1:6:A:VAL:HB	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	12	0.29
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	13	0.29
(1,7)	1:6:A:VAL:HG22	1:6:A:VAL:HB	15	0.29
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	16	0.29
(1,7)	1:6:A:VAL:HG23	1:6:A:VAL:HB	18	0.29
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	20	0.29
(2,26)	1:49:B:PHE:H	1:44:B:ILE:HB	15	0.28
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	16	0.28
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	17	0.28
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	17	0.28
(1,4418)	1:112:B:LEU:HD12	1:76:B:TRP:HE1	5	0.28
(1,4417)	1:112:A:LEU:HD12	1:76:A:TRP:HE1	5	0.28
(1,4316)	1:28:B:ALA:HB2	1:28:B:ALA:H	3	0.28
(1,4316)	1:28:B:ALA:HB1	1:28:B:ALA:H	12	0.28
(1,4316)	1:28:B:ALA:HB1	1:28:B:ALA:H	16	0.28
(1,4316)	1:28:B:ALA:HB1	1:28:B:ALA:H	20	0.28
(1,4315)	1:28:A:ALA:HB2	1:28:A:ALA:H	3	0.28
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	7	0.28
(1,4315)	1:28:A:ALA:HB1	1:28:A:ALA:H	12	0.28
(1,4315)	1:28:A:ALA:HB1	1:28:A:ALA:H	16	0.28
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	18	0.28
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	7	0.28
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	7	0.28
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	1	0.28
(1,4170)	1:20:B:VAL:HG13	1:20:B:VAL:H	4	0.28
(1,4170)	1:20:B:VAL:HG11	1:20:B:VAL:H	6	0.28
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	13	0.28
(1,4170)	1:20:B:VAL:HG11	1:20:B:VAL:H	19	0.28
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	20	0.28
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	1	0.28
(1,4169)	1:20:A:VAL:HG11	1:20:A:VAL:H	6	0.28
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	11	0.28
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	13	0.28
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	14	0.28
(1,4169)	1:20:A:VAL:HG11	1:20:A:VAL:H	19	0.28
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	20	0.28
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	16	0.28
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	7	0.28
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG11	3	0.28
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG11	8	0.28
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG11	3	0.28
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG11	8	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3805)	1:36:A:VAL:HG22	1:93:A:ASP:H	13	0.28
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	13	0.28
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	13	0.28
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG23	17	0.28
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG23	19	0.28
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG23	4	0.28
(1,3462)	1:56:B:THR:HG23	1:107:B:ALA:H	1	0.28
(1,3461)	1:56:A:THR:HG23	1:107:A:ALA:H	1	0.28
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	9	0.28
(1,2953)	1:27:A:THR:HG21	1:38:A:VAL:H	1	0.28
(1,2718)	1:42:B:VAL:HG11	1:99:B:TRP:HZ2	13	0.28
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG11	15	0.28
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG11	15	0.28
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	7	0.28
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	19	0.28
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	7	0.28
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	15	0.28
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	19	0.28
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD11	3	0.28
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	14	0.28
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	2	0.28
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	2	0.28
(1,2120)	1:117:B:THR:HG22	1:117:B:THR:HA	19	0.28
(1,2119)	1:117:A:THR:HG22	1:117:A:THR:HA	19	0.28
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	12	0.28
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG21	8	0.28
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG21	8	0.28
(1,1886)	1:112:B:LEU:HD21	1:77:B:ASN:HA	12	0.28
(1,1885)	1:112:A:LEU:HD21	1:77:A:ASN:HA	12	0.28
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	5	0.28
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG21	18	0.28
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	5	0.28
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG22	6	0.28
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG21	18	0.28
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG23	16	0.28
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD11	12	0.28
(1,1097)	1:42:A:VAL:HA	1:90:A:LEU:HD11	12	0.28
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	14	0.28
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	14	0.28
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	17	0.28
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	1	0.28
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	15	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	18	0.28
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	1	0.28
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	15	0.28
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG11	6	0.28
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	10	0.28
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG11	6	0.28
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	10	0.28
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	4	0.28
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	4	0.28
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	14	0.28
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	17	0.28
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	17	0.28
(1,826)	1:14:B:VAL:HG12	1:15:B:CYS:HB3	19	0.28
(1,825)	1:14:A:VAL:HG12	1:15:A:CYS:HB3	19	0.28
(1,824)	1:14:B:VAL:HG13	1:69:B:ARG:H	11	0.28
(1,823)	1:14:A:VAL:HG13	1:69:A:ARG:H	11	0.28
(1,600)	1:3:B:THR:HB	1:3:B:THR:HA	19	0.28
(1,599)	1:3:A:THR:HB	1:3:A:THR:HA	19	0.28
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD11	14	0.28
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD11	14	0.28
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	1	0.28
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	5	0.28
(1,8)	1:6:B:VAL:HG21	1:6:B:VAL:HB	7	0.28
(1,8)	1:6:B:VAL:HG23	1:6:B:VAL:HB	10	0.28
(1,8)	1:6:B:VAL:HG23	1:6:B:VAL:HB	14	0.28
(1,8)	1:6:B:VAL:HG23	1:6:B:VAL:HB	19	0.28
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	7	0.28
(1,7)	1:6:A:VAL:HG23	1:6:A:VAL:HB	10	0.28
(1,7)	1:6:A:VAL:HG23	1:6:A:VAL:HB	14	0.28
(1,7)	1:6:A:VAL:HG22	1:6:A:VAL:HB	17	0.28
(1,7)	1:6:A:VAL:HG23	1:6:A:VAL:HB	19	0.28
(1,4625)	1:86:A:PHE:H	1:54:B:PHE:HD2	14	0.27
(1,4620)	1:44:B:ILE:HG22	1:99:A:TRP:HZ2	18	0.27
(1,4619)	1:44:A:ILE:HG22	1:99:B:TRP:HZ2	18	0.27
(1,4603)	1:12:A:PHE:HE2	1:113:B:SER:HA	13	0.27
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	18	0.27
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	18	0.27
(1,4315)	1:28:A:ALA:HB1	1:28:A:ALA:H	20	0.27
(1,4268)	1:34:B:LYS:HG3	1:35:B:GLU:H	4	0.27
(1,4267)	1:34:A:LYS:HG3	1:35:A:GLU:H	4	0.27
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	12	0.27
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	12	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	19	0.27
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	3	0.27
(1,4170)	1:20:B:VAL:HG11	1:20:B:VAL:H	12	0.27
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	14	0.27
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	3	0.27
(1,4169)	1:20:A:VAL:HG13	1:20:A:VAL:H	4	0.27
(1,4169)	1:20:A:VAL:HG11	1:20:A:VAL:H	12	0.27
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	16	0.27
(1,4070)	1:100:B:ARG:HD2	1:100:B:ARG:H	6	0.27
(1,4069)	1:100:A:ARG:HD2	1:100:A:ARG:H	6	0.27
(1,4002)	1:44:B:ILE:HG13	1:44:B:ILE:H	19	0.27
(1,4001)	1:44:A:ILE:HG13	1:44:A:ILE:H	19	0.27
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	7	0.27
(1,3822)	1:27:B:THR:HG23	1:27:B:THR:H	11	0.27
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	14	0.27
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	14	0.27
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	2	0.27
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	6	0.27
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	2	0.27
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	6	0.27
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG23	12	0.27
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG23	17	0.27
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG23	19	0.27
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	17	0.27
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	20	0.27
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	9	0.27
(1,3184)	1:14:B:VAL:HG11	1:110:B:CYS:H	19	0.27
(1,3183)	1:14:A:VAL:HG11	1:110:A:CYS:H	19	0.27
(1,2826)	1:42:B:VAL:HG23	1:43:B:ASN:H	20	0.27
(1,2825)	1:42:A:VAL:HG23	1:43:A:ASN:H	20	0.27
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	19	0.27
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	19	0.27
(1,2717)	1:42:A:VAL:HG11	1:99:A:TRP:HZ2	13	0.27
(1,2662)	1:6:B:VAL:HG12	1:4:B:HIS:HD2	6	0.27
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	15	0.27
(1,2360)	1:39:B:LEU:HD13	1:98:B:ALA:H	19	0.27
(1,2359)	1:39:A:LEU:HD13	1:98:A:ALA:H	19	0.27
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	6	0.27
(1,2333)	1:59:A:ARG:HD3	1:59:A:ARG:HB3	14	0.27
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	8	0.27
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	15	0.27
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	15	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	15	0.27
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	15	0.27
(1,2116)	1:36:B:VAL:HG21	1:35:B:GLU:H	16	0.27
(1,2116)	1:36:B:VAL:HG22	1:35:B:GLU:H	19	0.27
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	16	0.27
(1,2044)	1:69:B:ARG:HA	1:64:B:VAL:HG23	14	0.27
(1,2043)	1:69:A:ARG:HA	1:64:A:VAL:HG23	14	0.27
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	11	0.27
(1,1792)	1:9:B:MET:HE2	1:6:B:VAL:HG22	5	0.27
(1,1782)	1:50:B:ARG:HG2	1:52:B:TYR:HA	3	0.27
(1,1781)	1:50:A:ARG:HG2	1:52:A:TYR:HA	3	0.27
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG21	3	0.27
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG22	8	0.27
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	9	0.27
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG21	13	0.27
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	15	0.27
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG21	3	0.27
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG22	8	0.27
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	9	0.27
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	15	0.27
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG22	17	0.27
(1,1704)	1:20:B:VAL:HG12	1:55:B:GLU:HG2	13	0.27
(1,1704)	1:20:B:VAL:HG12	1:55:B:GLU:HG2	16	0.27
(1,1696)	1:35:B:GLU:HG3	1:35:B:GLU:HB2	7	0.27
(1,1695)	1:35:A:GLU:HG3	1:35:A:GLU:HB2	7	0.27
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG23	5	0.27
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG23	9	0.27
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG23	5	0.27
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG23	9	0.27
(1,1292)	1:102:B:ILE:HD13	1:38:B:VAL:HB	13	0.27
(1,1291)	1:102:A:ILE:HD13	1:38:A:VAL:HB	9	0.27
(1,1291)	1:102:A:ILE:HD13	1:38:A:VAL:HB	13	0.27
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD11	2	0.27
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD11	2	0.27
(1,1048)	1:90:B:LEU:HD21	1:97:B:ALA:HB3	20	0.27
(1,1047)	1:90:A:LEU:HD21	1:97:A:ALA:HB3	20	0.27
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	17	0.27
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	20	0.27
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	18	0.27
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	20	0.27
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	15	0.27
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	15	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,828)	1:14:B:VAL:HG13	1:110:B:CYS:HB3	2	0.27
(1,827)	1:14:A:VAL:HG13	1:110:A:CYS:HB3	2	0.27
(1,824)	1:14:B:VAL:HG12	1:69:B:ARG:H	3	0.27
(1,823)	1:14:A:VAL:HG12	1:69:A:ARG:H	3	0.27
(1,772)	1:87:B:VAL:HG11	1:104:B:ILE:HD11	9	0.27
(1,771)	1:87:A:VAL:HG11	1:104:A:ILE:HD11	9	0.27
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD22	11	0.27
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD22	11	0.27
(1,324)	1:102:B:ILE:HG21	1:28:B:ALA:HB1	16	0.27
(1,323)	1:102:A:ILE:HG21	1:28:A:ALA:HB1	16	0.27
(1,8)	1:6:B:VAL:HG22	1:6:B:VAL:HB	2	0.27
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	1	0.27
(1,7)	1:6:A:VAL:HG22	1:6:A:VAL:HB	2	0.27
(1,7)	1:6:A:VAL:HG21	1:6:A:VAL:HB	5	0.27
(1,4640)	1:112:B:LEU:HD11	1:71:A:ILE:H	11	0.26
(1,4639)	1:112:A:LEU:HD11	1:71:B:ILE:H	15	0.26
(1,4591)	1:9:A:MET:HE1	1:118:B:ARG:HB2	16	0.26
(1,4440)	1:66:B:SER:H	1:67:B:GLY:H	12	0.26
(1,4417)	1:112:A:LEU:HD12	1:76:A:TRP:HE1	15	0.26
(1,4316)	1:28:B:ALA:HB2	1:28:B:ALA:H	2	0.26
(1,4315)	1:28:A:ALA:HB2	1:28:A:ALA:H	2	0.26
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	19	0.26
(1,4170)	1:20:B:VAL:HG13	1:20:B:VAL:H	17	0.26
(1,4169)	1:20:A:VAL:HG13	1:20:A:VAL:H	17	0.26
(1,3926)	1:68:B:CYS:H	1:71:B:ILE:HD12	14	0.26
(1,3925)	1:68:A:CYS:H	1:71:A:ILE:HD12	14	0.26
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	6	0.26
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	11	0.26
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	4	0.26
(1,3762)	1:18:B:VAL:HG22	1:18:B:VAL:H	7	0.26
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	4	0.26
(1,3761)	1:18:A:VAL:HG22	1:18:A:VAL:H	7	0.26
(1,3708)	1:65:B:GLU:HB2	1:65:B:GLU:H	11	0.26
(1,3707)	1:65:A:GLU:HB2	1:65:A:GLU:H	11	0.26
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	14	0.26
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	15	0.26
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	15	0.26
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG23	16	0.26
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG23	16	0.26
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	17	0.26
(1,3494)	1:41:B:GLU:H	1:41:B:GLU:HB3	8	0.26
(1,3493)	1:41:A:GLU:H	1:41:A:GLU:HB3	8	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG12	8	0.26
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG12	8	0.26
(1,3462)	1:56:B:THR:HG23	1:107:B:ALA:H	10	0.26
(1,3461)	1:56:A:THR:HG23	1:107:A:ALA:H	10	0.26
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	20	0.26
(1,3184)	1:14:B:VAL:HG12	1:110:B:CYS:H	13	0.26
(1,3183)	1:14:A:VAL:HG12	1:110:A:CYS:H	13	0.26
(1,2925)	1:59:A:ARG:HG3	1:59:A:ARG:H	15	0.26
(1,2661)	1:6:A:VAL:HG12	1:4:A:HIS:HD2	6	0.26
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	1	0.26
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	1	0.26
(1,2334)	1:59:B:ARG:HD3	1:59:B:ARG:HB3	6	0.26
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	17	0.26
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	8	0.26
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	17	0.26
(1,2115)	1:36:A:VAL:HG22	1:35:A:GLU:H	19	0.26
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	11	0.26
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	15	0.26
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	4	0.26
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG21	7	0.26
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	16	0.26
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG22	17	0.26
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG22	20	0.26
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG21	7	0.26
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG21	13	0.26
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	16	0.26
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG22	20	0.26
(1,1703)	1:20:A:VAL:HG12	1:55:A:GLU:HG2	13	0.26
(1,1703)	1:20:A:VAL:HG12	1:55:A:GLU:HG2	16	0.26
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG23	1	0.26
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG23	12	0.26
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG21	17	0.26
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG23	1	0.26
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG23	12	0.26
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG21	17	0.26
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	16	0.26
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	15	0.26
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	15	0.26
(1,1292)	1:102:B:ILE:HD13	1:38:B:VAL:HB	9	0.26
(1,1204)	1:112:B:LEU:HD11	1:71:B:ILE:HA	16	0.26
(1,1126)	1:69:B:ARG:HD2	1:64:B:VAL:HG23	14	0.26
(1,918)	1:22:B:VAL:HG22	1:20:B:VAL:HB	14	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,917)	1:22:A:VAL:HG22	1:20:A:VAL:HB	14	0.26
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	2	0.26
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	4	0.26
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	7	0.26
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	8	0.26
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	9	0.26
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	15	0.26
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	17	0.26
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	19	0.26
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	2	0.26
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	4	0.26
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	7	0.26
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	8	0.26
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	9	0.26
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	17	0.26
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	18	0.26
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD13	13	0.26
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD13	13	0.26
(1,384)	1:6:B:VAL:HG12	1:10:B:GLY:HA2	18	0.26
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB2	9	0.26
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB2	9	0.26
(2,26)	1:49:B:PHE:H	1:44:B:ILE:HB	4	0.25
(2,25)	1:49:A:PHE:H	1:44:A:ILE:HB	4	0.25
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG22	7	0.25
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG22	7	0.25
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	7	0.25
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	7	0.25
(1,4439)	1:66:A:SER:H	1:67:A:GLY:H	12	0.25
(1,4418)	1:112:B:LEU:HD12	1:76:B:TRP:HE1	15	0.25
(1,4316)	1:28:B:ALA:HB1	1:28:B:ALA:H	10	0.25
(1,4315)	1:28:A:ALA:HB1	1:28:A:ALA:H	10	0.25
(1,4270)	1:34:B:LYS:HB2	1:35:B:GLU:H	4	0.25
(1,4269)	1:34:A:LYS:HB2	1:35:A:GLU:H	4	0.25
(1,4170)	1:20:B:VAL:HG12	1:20:B:VAL:H	10	0.25
(1,4169)	1:20:A:VAL:HG11	1:20:A:VAL:H	15	0.25
(1,4098)	1:47:B:SER:HB2	1:47:B:SER:H	6	0.25
(1,4097)	1:47:A:SER:HB2	1:47:A:SER:H	6	0.25
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG11	2	0.25
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	15	0.25
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG11	2	0.25
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	15	0.25
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	8	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3822)	1:27:B:THR:HG23	1:27:B:THR:H	16	0.25
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	6	0.25
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	8	0.25
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	16	0.25
(1,3762)	1:18:B:VAL:HG22	1:18:B:VAL:H	6	0.25
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	18	0.25
(1,3761)	1:18:A:VAL:HG22	1:18:A:VAL:H	6	0.25
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	18	0.25
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	14	0.25
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	3	0.25
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	3	0.25
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	4	0.25
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	10	0.25
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	13	0.25
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	4	0.25
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	10	0.25
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG21	2	0.25
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG22	5	0.25
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG21	2	0.25
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	5	0.25
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG23	12	0.25
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	9	0.25
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	12	0.25
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	19	0.25
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	9	0.25
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	12	0.25
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	19	0.25
(1,3418)	1:14:B:VAL:HG12	1:15:B:CYS:H	10	0.25
(1,3418)	1:14:B:VAL:HG11	1:15:B:CYS:H	16	0.25
(1,3417)	1:14:A:VAL:HG12	1:15:A:CYS:H	10	0.25
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	16	0.25
(1,3364)	1:97:B:ALA:HB3	1:98:B:ALA:H	11	0.25
(1,3363)	1:97:A:ALA:HB3	1:98:A:ALA:H	11	0.25
(1,3036)	1:53:B:PHE:H	1:21:B:TRP:HB2	8	0.25
(1,3035)	1:53:A:PHE:H	1:21:A:TRP:HB2	8	0.25
(1,2926)	1:59:B:ARG:HG3	1:59:B:ARG:H	15	0.25
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	15	0.25
(1,2488)	1:86:B:PHE:HD1	1:103:B:ARG:HG3	6	0.25
(1,2487)	1:86:A:PHE:HD1	1:103:A:ARG:HG3	6	0.25
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	15	0.25
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	15	0.25
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	3	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2408)	1:34:B:LYS:HG2	1:34:B:LYS:HE3	14	0.25
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	3	0.25
(1,2407)	1:34:A:LYS:HG2	1:34:A:LYS:HE3	14	0.25
(1,2360)	1:39:B:LEU:HD11	1:98:B:ALA:H	2	0.25
(1,2359)	1:39:A:LEU:HD11	1:98:A:ALA:H	2	0.25
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	5	0.25
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	20	0.25
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	20	0.25
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	15	0.25
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	15	0.25
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	15	0.25
(1,1791)	1:9:A:MET:HE2	1:6:A:VAL:HG22	5	0.25
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	11	0.25
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG22	14	0.25
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	4	0.25
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	11	0.25
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG22	14	0.25
(1,1594)	1:33:B:GLY:HA2	1:29:B:THR:HG21	15	0.25
(1,1566)	1:41:B:GLU:HG2	1:50:B:ARG:HA	20	0.25
(1,1565)	1:41:A:GLU:HG2	1:50:A:ARG:HA	20	0.25
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG21	6	0.25
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	20	0.25
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG21	6	0.25
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	20	0.25
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	16	0.25
(1,1458)	1:41:B:GLU:HB2	1:42:B:VAL:H	1	0.25
(1,1457)	1:41:A:GLU:HB2	1:42:A:VAL:H	1	0.25
(1,1292)	1:102:B:ILE:HD13	1:38:B:VAL:HB	2	0.25
(1,1291)	1:102:A:ILE:HD13	1:38:A:VAL:HB	2	0.25
(1,1258)	1:64:B:VAL:HG11	1:68:B:CYS:H	15	0.25
(1,1257)	1:64:A:VAL:HG11	1:68:A:CYS:H	15	0.25
(1,1203)	1:112:A:LEU:HD11	1:71:A:ILE:HA	16	0.25
(1,1125)	1:69:A:ARG:HD2	1:64:A:VAL:HG23	14	0.25
(1,1048)	1:90:B:LEU:HD23	1:97:B:ALA:HB1	2	0.25
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	11	0.25
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	11	0.25
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	12	0.25
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	16	0.25
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG11	19	0.25
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	16	0.25
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG11	19	0.25
(1,976)	1:18:B:VAL:HG13	1:57:B:LYS:HE2	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	3	0.25
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	6	0.25
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	11	0.25
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	12	0.25
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	13	0.25
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	14	0.25
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	16	0.25
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	18	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	1	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	3	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	6	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	11	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	12	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	13	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	14	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	15	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	16	0.25
(1,853)	1:65:A:GLU:HG2	1:65:A:GLU:HB2	19	0.25
(1,828)	1:14:B:VAL:HG13	1:110:B:CYS:HB3	3	0.25
(1,827)	1:14:A:VAL:HG13	1:110:A:CYS:HB3	3	0.25
(1,800)	1:90:B:LEU:HD21	1:42:B:VAL:HG23	4	0.25
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG23	6	0.25
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG22	19	0.25
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG21	4	0.25
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG21	5	0.25
(1,524)	1:116:B:ALA:HB1	1:117:B:THR:HA	6	0.25
(1,523)	1:116:A:ALA:HB1	1:117:A:THR:HA	6	0.25
(1,383)	1:6:A:VAL:HG12	1:10:A:GLY:HA2	18	0.25
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB3	1	0.25
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB1	6	0.25
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB3	1	0.25
(2,36)	1:103:B:ARG:H	1:104:B:ILE:HG12	9	0.24
(2,35)	1:103:A:ARG:H	1:104:A:ILE:HG12	9	0.24
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	11	0.24
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	15	0.24
(1,4421)	1:76:A:TRP:HE1	1:112:A:LEU:HD23	2	0.24
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	13	0.24
(1,4190)	1:39:B:LEU:HD13	1:41:B:GLU:H	20	0.24
(1,4189)	1:39:A:LEU:HD13	1:41:A:GLU:H	20	0.24
(1,4170)	1:20:B:VAL:HG13	1:20:B:VAL:H	2	0.24
(1,4170)	1:20:B:VAL:HG11	1:20:B:VAL:H	15	0.24
(1,4169)	1:20:A:VAL:HG13	1:20:A:VAL:H	2	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4169)	1:20:A:VAL:HG12	1:20:A:VAL:H	10	0.24
(1,3762)	1:18:B:VAL:HG21	1:18:B:VAL:H	5	0.24
(1,3762)	1:18:B:VAL:HG22	1:18:B:VAL:H	13	0.24
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	19	0.24
(1,3761)	1:18:A:VAL:HG22	1:18:A:VAL:H	13	0.24
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	19	0.24
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	19	0.24
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	2	0.24
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	9	0.24
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	12	0.24
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	17	0.24
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	9	0.24
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	12	0.24
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	13	0.24
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	17	0.24
(1,3620)	1:84:B:HIS:HB2	1:85:B:THR:H	16	0.24
(1,3619)	1:84:A:HIS:HB2	1:85:A:THR:H	5	0.24
(1,3619)	1:84:A:HIS:HB2	1:85:A:THR:H	16	0.24
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	2	0.24
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	11	0.24
(1,3510)	1:104:B:ILE:HG13	1:104:B:ILE:H	19	0.24
(1,3509)	1:104:A:ILE:HG13	1:104:A:ILE:H	19	0.24
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG12	12	0.24
(1,3460)	1:107:B:ALA:HB1	1:107:B:ALA:H	14	0.24
(1,3459)	1:107:A:ALA:HB1	1:107:A:ALA:H	14	0.24
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	8	0.24
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	17	0.24
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	8	0.24
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	17	0.24
(1,3035)	1:53:A:PHE:H	1:21:A:TRP:HB2	5	0.24
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	12	0.24
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	12	0.24
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	16	0.24
(1,2953)	1:27:A:THR:HG21	1:38:A:VAL:H	6	0.24
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	20	0.24
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	15	0.24
(1,2696)	1:86:B:PHE:HZ	1:103:B:ARG:HB3	17	0.24
(1,2695)	1:86:A:PHE:HZ	1:103:A:ARG:HB3	17	0.24
(1,2662)	1:6:B:VAL:HG12	1:4:B:HIS:HD2	2	0.24
(1,2640)	1:6:B:VAL:HB	1:7:B:PHE:HD1	14	0.24
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG12	5	0.24
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG13	10	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG12	5	0.24
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG13	10	0.24
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	5	0.24
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	9	0.24
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	14	0.24
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	14	0.24
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG23	10	0.24
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG23	10	0.24
(1,1704)	1:20:B:VAL:HG11	1:55:B:GLU:HG2	15	0.24
(1,1703)	1:20:A:VAL:HG11	1:55:A:GLU:HG2	15	0.24
(1,1593)	1:33:A:GLY:HA2	1:29:A:THR:HG21	15	0.24
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	15	0.24
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	15	0.24
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG11	15	0.24
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG11	15	0.24
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	14	0.24
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	10	0.24
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	10	0.24
(1,1295)	1:102:A:ILE:HD12	1:102:A:ILE:HG12	4	0.24
(1,1295)	1:102:A:ILE:HD12	1:102:A:ILE:HG12	19	0.24
(1,1294)	1:102:B:ILE:HD11	1:25:B:LYS:HE3	11	0.24
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD12	11	0.24
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD12	11	0.24
(1,1258)	1:64:B:VAL:HG12	1:68:B:CYS:H	19	0.24
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG23	13	0.24
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG23	13	0.24
(1,1047)	1:90:A:LEU:HD23	1:97:A:ALA:HB1	2	0.24
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	12	0.24
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	20	0.24
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	20	0.24
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	4	0.24
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	13	0.24
(1,975)	1:18:A:VAL:HG13	1:57:A:LYS:HE2	2	0.24
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	2	0.24
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	2	0.24
(1,888)	1:36:B:VAL:HG12	1:30:B:ASP:HA	2	0.24
(1,887)	1:36:A:VAL:HG12	1:30:A:ASP:HA	2	0.24
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	12	0.24
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	12	0.24
(1,854)	1:65:B:GLU:HG2	1:65:B:GLU:HB2	1	0.24
(1,799)	1:90:A:LEU:HD21	1:42:A:VAL:HG23	4	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG23	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG21	4	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG21	5	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG23	8	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG23	9	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG23	10	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG21	11	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG22	13	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG23	14	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG22	18	0.24
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG21	20	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG23	1	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG23	6	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG23	9	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG23	10	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG21	11	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG21	12	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG22	13	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG23	14	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG22	18	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG22	19	0.24
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG21	20	0.24
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD22	2	0.24
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD22	2	0.24
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	2	0.24
(1,328)	1:102:B:ILE:HG22	1:102:B:ILE:HG13	4	0.24
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	5	0.24
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	7	0.24
(1,328)	1:102:B:ILE:HG21	1:102:B:ILE:HG13	9	0.24
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	11	0.24
(1,328)	1:102:B:ILE:HG22	1:102:B:ILE:HG13	12	0.24
(1,328)	1:102:B:ILE:HG22	1:102:B:ILE:HG13	13	0.24
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	18	0.24
(1,328)	1:102:B:ILE:HG22	1:102:B:ILE:HG13	20	0.24
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	2	0.24
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	5	0.24
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	7	0.24
(1,327)	1:102:A:ILE:HG21	1:102:A:ILE:HG13	9	0.24
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	10	0.24
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	11	0.24
(1,327)	1:102:A:ILE:HG22	1:102:A:ILE:HG13	12	0.24
(1,327)	1:102:A:ILE:HG22	1:102:A:ILE:HG13	13	0.24
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	18	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,327)	1:102:A:ILE:HG22	1:102:A:ILE:HG13	20	0.24
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB1	6	0.24
(1,4640)	1:112:B:LEU:HD11	1:71:A:ILE:H	15	0.23
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD12	2	0.23
(1,4626)	1:86:B:PHE:H	1:54:A:PHE:HD2	13	0.23
(1,4589)	1:9:A:MET:HB2	1:113:B:SER:HB3	15	0.23
(1,4422)	1:76:B:TRP:HE1	1:112:B:LEU:HD23	2	0.23
(1,4316)	1:28:B:ALA:HB2	1:28:B:ALA:H	9	0.23
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	13	0.23
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	17	0.23
(1,4315)	1:28:A:ALA:HB2	1:28:A:ALA:H	9	0.23
(1,4186)	1:40:B:ALA:HB3	1:41:B:GLU:H	19	0.23
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	15	0.23
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	15	0.23
(1,3850)	1:73:B:SER:HB3	1:73:B:SER:H	8	0.23
(1,3849)	1:73:A:SER:HB3	1:73:A:SER:H	8	0.23
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	9	0.23
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	13	0.23
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	13	0.23
(1,3762)	1:18:B:VAL:HG21	1:18:B:VAL:H	1	0.23
(1,3761)	1:18:A:VAL:HG21	1:18:A:VAL:H	1	0.23
(1,3761)	1:18:A:VAL:HG21	1:18:A:VAL:H	5	0.23
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	19	0.23
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	1	0.23
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	19	0.23
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	2	0.23
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	14	0.23
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	19	0.23
(1,3620)	1:84:B:HIS:HB2	1:85:B:THR:H	5	0.23
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	11	0.23
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	18	0.23
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG12	12	0.23
(1,3460)	1:107:B:ALA:HB2	1:107:B:ALA:H	11	0.23
(1,3459)	1:107:A:ALA:HB2	1:107:A:ALA:H	11	0.23
(1,3418)	1:14:B:VAL:HG11	1:15:B:CYS:H	8	0.23
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	8	0.23
(1,3376)	1:88:B:LYS:HG2	1:88:B:LYS:H	10	0.23
(1,3375)	1:88:A:LYS:HG2	1:88:A:LYS:H	10	0.23
(1,3358)	1:24:B:ASP:H	1:25:B:LYS:H	3	0.23
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	9	0.23
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	13	0.23
(1,3221)	1:67:A:GLY:HA2	1:68:A:CYS:H	13	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3036)	1:53:B:PHE:H	1:21:B:TRP:HB2	5	0.23
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	16	0.23
(1,2954)	1:27:B:THR:HG21	1:38:B:VAL:H	6	0.23
(1,2826)	1:42:B:VAL:HG23	1:43:B:ASN:H	8	0.23
(1,2825)	1:42:A:VAL:HG23	1:43:A:ASN:H	8	0.23
(1,2809)	1:39:A:LEU:HD23	1:92:A:THR:H	17	0.23
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	20	0.23
(1,2696)	1:86:B:PHE:HZ	1:103:B:ARG:HB3	10	0.23
(1,2696)	1:86:B:PHE:HZ	1:103:B:ARG:HB3	11	0.23
(1,2695)	1:86:A:PHE:HZ	1:103:A:ARG:HB3	10	0.23
(1,2695)	1:86:A:PHE:HZ	1:103:A:ARG:HB3	11	0.23
(1,2661)	1:6:A:VAL:HG12	1:4:A:HIS:HD2	2	0.23
(1,2639)	1:6:A:VAL:HB	1:7:A:PHE:HD1	14	0.23
(1,2540)	1:87:B:VAL:HG12	1:53:B:PHE:HD1	18	0.23
(1,2539)	1:87:A:VAL:HG12	1:53:A:PHE:HD1	18	0.23
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD11	11	0.23
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	4	0.23
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG13	6	0.23
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG12	7	0.23
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG13	11	0.23
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG13	14	0.23
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG12	15	0.23
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG12	18	0.23
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	19	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	4	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG13	6	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG12	7	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	9	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG13	11	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG13	14	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG12	15	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG12	17	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG12	18	0.23
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	19	0.23
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	9	0.23
(1,2216)	1:95:B:LYS:HG2	1:95:B:LYS:HE3	14	0.23
(1,2215)	1:95:A:LYS:HG2	1:95:A:LYS:HE3	14	0.23
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	13	0.23
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG23	7	0.23
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG23	7	0.23
(1,1714)	1:104:B:ILE:HG12	1:104:B:ILE:HG21	1	0.23
(1,1713)	1:104:A:ILE:HG12	1:104:A:ILE:HG21	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1652)	1:104:B:ILE:HD13	1:104:B:ILE:HB	19	0.23
(1,1651)	1:104:A:ILE:HD13	1:104:A:ILE:HB	19	0.23
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	2	0.23
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	2	0.23
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	18	0.23
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	18	0.23
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	14	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	1	0.23
(1,1296)	1:102:B:ILE:HD12	1:102:B:ILE:HG12	2	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	3	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	4	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	5	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	6	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	7	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	8	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	9	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	10	0.23
(1,1296)	1:102:B:ILE:HD12	1:102:B:ILE:HG12	11	0.23
(1,1296)	1:102:B:ILE:HD12	1:102:B:ILE:HG12	12	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	13	0.23
(1,1296)	1:102:B:ILE:HD12	1:102:B:ILE:HG12	14	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	15	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	16	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	17	0.23
(1,1296)	1:102:B:ILE:HD13	1:102:B:ILE:HG12	18	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	19	0.23
(1,1296)	1:102:B:ILE:HD11	1:102:B:ILE:HG12	20	0.23
(1,1295)	1:102:A:ILE:HD13	1:102:A:ILE:HG12	1	0.23
(1,1295)	1:102:A:ILE:HD12	1:102:A:ILE:HG12	2	0.23
(1,1295)	1:102:A:ILE:HD11	1:102:A:ILE:HG12	3	0.23
(1,1295)	1:102:A:ILE:HD11	1:102:A:ILE:HG12	5	0.23
(1,1295)	1:102:A:ILE:HD13	1:102:A:ILE:HG12	6	0.23
(1,1295)	1:102:A:ILE:HD13	1:102:A:ILE:HG12	7	0.23
(1,1295)	1:102:A:ILE:HD11	1:102:A:ILE:HG12	8	0.23
(1,1295)	1:102:A:ILE:HD13	1:102:A:ILE:HG12	9	0.23
(1,1295)	1:102:A:ILE:HD13	1:102:A:ILE:HG12	10	0.23
(1,1295)	1:102:A:ILE:HD12	1:102:A:ILE:HG12	11	0.23
(1,1295)	1:102:A:ILE:HD12	1:102:A:ILE:HG12	12	0.23
(1,1295)	1:102:A:ILE:HD13	1:102:A:ILE:HG12	13	0.23
(1,1295)	1:102:A:ILE:HD12	1:102:A:ILE:HG12	14	0.23
(1,1295)	1:102:A:ILE:HD11	1:102:A:ILE:HG12	15	0.23
(1,1295)	1:102:A:ILE:HD11	1:102:A:ILE:HG12	16	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1295)	1:102:A:ILE:HD11	1:102:A:ILE:HG12	17	0.23
(1,1295)	1:102:A:ILE:HD13	1:102:A:ILE:HG12	18	0.23
(1,1295)	1:102:A:ILE:HD11	1:102:A:ILE:HG12	20	0.23
(1,1257)	1:64:A:VAL:HG12	1:68:A:CYS:H	19	0.23
(1,1057)	1:6:A:VAL:HG12	1:9:A:MET:H	8	0.23
(1,1020)	1:115:B:LYS:HG2	1:77:B:ASN:H	4	0.23
(1,1019)	1:115:A:LYS:HG2	1:77:A:ASN:H	4	0.23
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	17	0.23
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	4	0.23
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	17	0.23
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	13	0.23
(1,868)	1:18:B:VAL:HG12	1:57:B:LYS:HB2	3	0.23
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG22	2	0.23
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG22	3	0.23
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG21	7	0.23
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG21	12	0.23
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG22	16	0.23
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG21	17	0.23
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG22	2	0.23
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG22	3	0.23
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG21	7	0.23
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG23	8	0.23
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG22	16	0.23
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG21	17	0.23
(1,328)	1:102:B:ILE:HG21	1:102:B:ILE:HG13	1	0.23
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	3	0.23
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	10	0.23
(1,328)	1:102:B:ILE:HG21	1:102:B:ILE:HG13	15	0.23
(1,328)	1:102:B:ILE:HG22	1:102:B:ILE:HG13	16	0.23
(1,327)	1:102:A:ILE:HG21	1:102:A:ILE:HG13	1	0.23
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	3	0.23
(1,327)	1:102:A:ILE:HG22	1:102:A:ILE:HG13	4	0.23
(1,327)	1:102:A:ILE:HG21	1:102:A:ILE:HG13	15	0.23
(1,327)	1:102:A:ILE:HG22	1:102:A:ILE:HG13	16	0.23
(1,327)	1:102:A:ILE:HG22	1:102:A:ILE:HG13	17	0.23
(1,323)	1:102:A:ILE:HG21	1:28:A:ALA:HB3	17	0.23
(1,242)	1:36:B:VAL:HG13	1:92:B:THR:H	9	0.23
(1,241)	1:36:A:VAL:HG13	1:92:A:THR:H	9	0.23
(3,13)	1:85:A:THR:HG23	1:105:A:ASP:HB2	9	0.22
(1,4619)	1:44:A:ILE:HG23	1:99:B:TRP:HZ2	14	0.22
(1,4597)	1:12:A:PHE:H	1:111:B:VAL:HG21	14	0.22
(1,4593)	1:9:B:MET:HE1	1:118:A:ARG:HB2	16	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	5	0.22
(1,4316)	1:28:B:ALA:HB1	1:28:B:ALA:H	6	0.22
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	5	0.22
(1,4315)	1:28:A:ALA:HB1	1:28:A:ALA:H	6	0.22
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	17	0.22
(1,4252)	1:6:B:VAL:HA	1:7:B:PHE:H	3	0.22
(1,4251)	1:6:A:VAL:HA	1:7:A:PHE:H	3	0.22
(1,4185)	1:40:A:ALA:HB3	1:41:A:GLU:H	19	0.22
(1,3974)	1:43:B:ASN:HD22	1:39:B:LEU:HD11	17	0.22
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	20	0.22
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	20	0.22
(1,3822)	1:27:B:THR:HG22	1:27:B:THR:H	15	0.22
(1,3821)	1:27:A:THR:HG22	1:27:A:THR:H	15	0.22
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	9	0.22
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	3	0.22
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	11	0.22
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	14	0.22
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	16	0.22
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	1	0.22
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	3	0.22
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	5	0.22
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	16	0.22
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG21	8	0.22
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG21	8	0.22
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	2	0.22
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	5	0.22
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	18	0.22
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	4	0.22
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	4	0.22
(1,3357)	1:24:A:ASP:H	1:25:A:LYS:H	3	0.22
(1,3262)	1:118:B:ARG:HG3	1:118:B:ARG:H	7	0.22
(1,3261)	1:118:A:ARG:HG3	1:118:A:ARG:H	7	0.22
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	13	0.22
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	9	0.22
(1,3222)	1:67:B:GLY:HA2	1:68:B:CYS:H	13	0.22
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	4	0.22
(1,2954)	1:27:B:THR:HG23	1:38:B:VAL:H	7	0.22
(1,2954)	1:27:B:THR:HG21	1:38:B:VAL:H	20	0.22
(1,2953)	1:27:A:THR:HG21	1:38:A:VAL:H	20	0.22
(1,2810)	1:39:B:LEU:HD23	1:92:B:THR:H	17	0.22
(1,2744)	1:64:B:VAL:HG22	1:64:B:VAL:H	14	0.22
(1,2743)	1:64:A:VAL:HG22	1:64:A:VAL:H	14	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	1	0.22
(1,2581)	1:50:A:ARG:HD2	1:52:A:TYR:HD1	3	0.22
(1,2450)	1:41:B:GLU:HG2	1:50:B:ARG:HD2	16	0.22
(1,2449)	1:41:A:GLU:HG2	1:50:A:ARG:HD2	16	0.22
(1,2448)	1:50:B:ARG:HB2	1:50:B:ARG:HD2	9	0.22
(1,2447)	1:50:A:ARG:HB2	1:50:A:ARG:HD2	9	0.22
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD13	1	0.22
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD13	1	0.22
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	1	0.22
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD13	2	0.22
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD13	6	0.22
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	7	0.22
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	9	0.22
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	10	0.22
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD11	12	0.22
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	17	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	1	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD13	2	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	5	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD13	6	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	7	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	9	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	10	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD11	11	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD11	12	0.22
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	17	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG12	1	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	8	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	9	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG13	13	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG12	17	0.22
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG12	20	0.22
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG12	1	0.22
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG13	13	0.22
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG12	20	0.22
(1,2192)	1:42:B:VAL:HG12	1:99:B:TRP:HZ3	14	0.22
(1,2191)	1:42:A:VAL:HG12	1:99:A:TRP:HZ3	14	0.22
(1,2190)	1:41:B:GLU:HG2	1:42:B:VAL:HG12	2	0.22
(1,2189)	1:41:A:GLU:HG2	1:42:A:VAL:HG12	2	0.22
(1,2146)	1:97:B:ALA:HB1	1:92:B:THR:HB	4	0.22
(1,2145)	1:97:A:ALA:HB1	1:92:A:THR:HB	4	0.22
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1882)	1:112:B:LEU:HD21	1:71:B:ILE:HA	15	0.22
(1,1793)	1:9:A:MET:HE1	1:6:A:VAL:HB	4	0.22
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	20	0.22
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	20	0.22
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	19	0.22
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG13	17	0.22
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG13	17	0.22
(1,1293)	1:102:A:ILE:HD11	1:25:A:LYS:HE3	11	0.22
(1,1286)	1:87:B:VAL:HG11	1:102:B:ILE:HD12	9	0.22
(1,1285)	1:87:A:VAL:HG11	1:102:A:ILE:HD12	9	0.22
(1,1058)	1:6:B:VAL:HG12	1:9:B:MET:H	8	0.22
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG23	19	0.22
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG23	19	0.22
(1,956)	1:85:B:THR:HB	1:104:B:ILE:HD11	20	0.22
(1,955)	1:85:A:THR:HB	1:104:A:ILE:HD11	20	0.22
(1,867)	1:18:A:VAL:HG12	1:57:A:LYS:HB2	3	0.22
(1,606)	1:31:B:ILE:HG13	1:31:B:ILE:HG23	15	0.22
(1,605)	1:31:A:ILE:HG13	1:31:A:ILE:HG23	15	0.22
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	6	0.22
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	8	0.22
(1,328)	1:102:B:ILE:HG23	1:102:B:ILE:HG13	14	0.22
(1,328)	1:102:B:ILE:HG22	1:102:B:ILE:HG13	17	0.22
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	6	0.22
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	8	0.22
(1,327)	1:102:A:ILE:HG23	1:102:A:ILE:HG13	14	0.22
(1,324)	1:102:B:ILE:HG22	1:28:B:ALA:HB3	8	0.22
(1,324)	1:102:B:ILE:HG21	1:28:B:ALA:HB3	17	0.22
(1,323)	1:102:A:ILE:HG21	1:28:A:ALA:HB3	4	0.22
(1,323)	1:102:A:ILE:HG22	1:28:A:ALA:HB3	8	0.22
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB3	10	0.21
(3,14)	1:85:B:THR:HG23	1:105:B:ASP:HB2	9	0.21
(1,4639)	1:112:A:LEU:HD11	1:71:B:ILE:H	16	0.21
(1,4639)	1:112:A:LEU:HD11	1:71:B:ILE:H	19	0.21
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD12	2	0.21
(1,4453)	1:82:A:THR:HG21	1:107:A:ALA:H	5	0.21
(1,4452)	1:107:B:ALA:H	1:83:B:THR:HA	18	0.21
(1,4451)	1:107:A:ALA:H	1:83:A:THR:HA	18	0.21
(1,4316)	1:28:B:ALA:HB3	1:28:B:ALA:H	11	0.21
(1,3973)	1:43:A:ASN:HD22	1:39:A:LEU:HD11	17	0.21
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	14	0.21
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	14	0.21
(1,3942)	1:109:B:VAL:HG22	1:81:B:THR:H	10	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3941)	1:109:A:VAL:HG22	1:81:A:THR:H	10	0.21
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	4	0.21
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	14	0.21
(1,3762)	1:18:B:VAL:HG22	1:18:B:VAL:H	3	0.21
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	15	0.21
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	5	0.21
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	6	0.21
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	7	0.21
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	8	0.21
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	11	0.21
(1,3620)	1:84:B:HIS:HB2	1:85:B:THR:H	11	0.21
(1,3619)	1:84:A:HIS:HB2	1:85:A:THR:H	11	0.21
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	5	0.21
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	1	0.21
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	1	0.21
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	5	0.21
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	5	0.21
(1,3418)	1:14:B:VAL:HG11	1:15:B:CYS:H	6	0.21
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	6	0.21
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	6	0.21
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	10	0.21
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	6	0.21
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	10	0.21
(1,3222)	1:67:B:GLY:HA2	1:68:B:CYS:H	2	0.21
(1,3221)	1:67:A:GLY:HA2	1:68:A:CYS:H	2	0.21
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	13	0.21
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	13	0.21
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	20	0.21
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	20	0.21
(1,2954)	1:27:B:THR:HG23	1:38:B:VAL:H	11	0.21
(1,2953)	1:27:A:THR:HG23	1:38:A:VAL:H	7	0.21
(1,2953)	1:27:A:THR:HG23	1:38:A:VAL:H	11	0.21
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	1	0.21
(1,2582)	1:50:B:ARG:HD2	1:52:B:TYR:HD1	3	0.21
(1,2545)	1:87:A:VAL:HB	1:53:A:PHE:HD1	20	0.21
(1,2487)	1:86:A:PHE:HD1	1:103:A:ARG:HG3	15	0.21
(1,2406)	1:34:B:LYS:HG3	1:34:B:LYS:HE3	11	0.21
(1,2405)	1:34:A:LYS:HG3	1:34:A:LYS:HE3	11	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD13	3	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD11	4	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	5	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD11	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD11	14	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	15	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD11	18	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD13	19	0.21
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD11	20	0.21
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD13	3	0.21
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD11	4	0.21
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD11	13	0.21
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD11	14	0.21
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	15	0.21
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD11	18	0.21
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD13	19	0.21
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD11	20	0.21
(1,2359)	1:39:A:LEU:HD12	1:98:A:ALA:H	5	0.21
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	2	0.21
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	3	0.21
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	2	0.21
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	3	0.21
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	8	0.21
(1,2240)	1:85:B:THR:HG21	1:106:B:THR:HG22	3	0.21
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG12	1	0.21
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG12	5	0.21
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	7	0.21
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	8	0.21
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	14	0.21
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG12	1	0.21
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG13	3	0.21
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG12	5	0.21
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	7	0.21
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG13	8	0.21
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	14	0.21
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	19	0.21
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	18	0.21
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	18	0.21
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	4	0.21
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	4	0.21
(1,1881)	1:112:A:LEU:HD21	1:71:A:ILE:HA	15	0.21
(1,1794)	1:9:B:MET:HE1	1:6:B:VAL:HB	4	0.21
(1,1704)	1:20:B:VAL:HG13	1:55:B:GLU:HG2	5	0.21
(1,1703)	1:20:A:VAL:HG13	1:55:A:GLU:HG2	5	0.21
(1,1693)	1:35:A:GLU:HG3	1:27:A:THR:HG21	2	0.21
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	4	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	19	0.21
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	4	0.21
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG13	5	0.21
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	14	0.21
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG13	5	0.21
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	14	0.21
(1,1292)	1:102:B:ILE:HD13	1:38:B:VAL:HB	1	0.21
(1,1291)	1:102:A:ILE:HD13	1:38:A:VAL:HB	1	0.21
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG21	9	0.21
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG22	12	0.21
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG22	12	0.21
(1,1190)	1:6:B:VAL:HA	1:9:B:MET:HA	8	0.21
(1,1189)	1:6:A:VAL:HA	1:9:A:MET:HA	8	0.21
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	10	0.21
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	12	0.21
(1,888)	1:36:B:VAL:HG13	1:30:B:ASP:HA	1	0.21
(1,887)	1:36:A:VAL:HG13	1:30:A:ASP:HA	1	0.21
(1,886)	1:36:B:VAL:HG13	1:29:B:THR:H	10	0.21
(1,868)	1:18:B:VAL:HG12	1:57:B:LYS:HB2	18	0.21
(1,867)	1:18:A:VAL:HG12	1:57:A:LYS:HB2	18	0.21
(1,866)	1:18:B:VAL:HG13	1:18:B:VAL:HA	4	0.21
(1,866)	1:18:B:VAL:HG13	1:18:B:VAL:HA	6	0.21
(1,865)	1:18:A:VAL:HG13	1:18:A:VAL:HA	4	0.21
(1,865)	1:18:A:VAL:HG13	1:18:A:VAL:HA	6	0.21
(1,328)	1:102:B:ILE:HG22	1:102:B:ILE:HG13	19	0.21
(1,327)	1:102:A:ILE:HG22	1:102:A:ILE:HG13	19	0.21
(1,324)	1:102:B:ILE:HG21	1:28:B:ALA:HB3	4	0.21
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB3	10	0.2
(3,14)	1:85:B:THR:HG21	1:105:B:ASP:HB2	5	0.2
(1,4640)	1:112:B:LEU:HD11	1:71:A:ILE:H	19	0.2
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD13	15	0.2
(1,4626)	1:86:B:PHE:H	1:54:A:PHE:HD2	1	0.2
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD12	13	0.2
(1,4606)	1:13:B:SER:H	1:111:A:VAL:HA	15	0.2
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	3	0.2
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	3	0.2
(1,4440)	1:66:B:SER:H	1:67:B:GLY:H	15	0.2
(1,4439)	1:66:A:SER:H	1:67:A:GLY:H	15	0.2
(1,4418)	1:112:B:LEU:HD12	1:76:B:TRP:HE1	16	0.2
(1,4417)	1:112:A:LEU:HD12	1:76:A:TRP:HE1	16	0.2
(1,4315)	1:28:A:ALA:HB3	1:28:A:ALA:H	11	0.2
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	19	0.2
(1,4268)	1:34:B:LYS:HG3	1:35:B:GLU:H	1	0.2
(1,4252)	1:6:B:VAL:HA	1:7:B:PHE:H	10	0.2
(1,4251)	1:6:A:VAL:HA	1:7:A:PHE:H	10	0.2
(1,4190)	1:39:B:LEU:HD12	1:41:B:GLU:H	2	0.2
(1,4189)	1:39:A:LEU:HD12	1:41:A:GLU:H	2	0.2
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	2	0.2
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	2	0.2
(1,3880)	1:22:B:VAL:H	1:53:B:PHE:HB3	1	0.2
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	4	0.2
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	14	0.2
(1,3762)	1:18:B:VAL:HG22	1:18:B:VAL:H	8	0.2
(1,3762)	1:18:B:VAL:HG22	1:18:B:VAL:H	10	0.2
(1,3761)	1:18:A:VAL:HG22	1:18:A:VAL:H	3	0.2
(1,3761)	1:18:A:VAL:HG22	1:18:A:VAL:H	8	0.2
(1,3761)	1:18:A:VAL:HG22	1:18:A:VAL:H	10	0.2
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	15	0.2
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	18	0.2
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	11	0.2
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	7	0.2
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	8	0.2
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	6	0.2
(1,3639)	1:96:A:GLN:HE21	1:96:A:GLN:HA	9	0.2
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG22	9	0.2
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	9	0.2
(1,3620)	1:84:B:HIS:HB2	1:85:B:THR:H	20	0.2
(1,3619)	1:84:A:HIS:HB2	1:85:A:THR:H	20	0.2
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	15	0.2
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	15	0.2
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	13	0.2
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	13	0.2
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	12	0.2
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	12	0.2
(1,3418)	1:14:B:VAL:HG12	1:15:B:CYS:H	11	0.2
(1,3417)	1:14:A:VAL:HG12	1:15:A:CYS:H	11	0.2
(1,3417)	1:14:A:VAL:HG12	1:15:A:CYS:H	12	0.2
(1,3376)	1:88:B:LYS:HG2	1:88:B:LYS:H	1	0.2
(1,3375)	1:88:A:LYS:HG2	1:88:A:LYS:H	1	0.2
(1,3351)	1:22:A:VAL:HG12	1:25:A:LYS:H	5	0.2
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	3	0.2
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	3	0.2
(1,3036)	1:53:B:PHE:H	1:21:B:TRP:HB2	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3035)	1:53:A:PHE:H	1:21:A:TRP:HB2	19	0.2
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	4	0.2
(1,2954)	1:27:B:THR:HG23	1:38:B:VAL:H	15	0.2
(1,2878)	1:50:B:ARG:HB2	1:50:B:ARG:H	8	0.2
(1,2877)	1:50:A:ARG:HB2	1:50:A:ARG:H	8	0.2
(1,2546)	1:87:B:VAL:HB	1:53:B:PHE:HD1	20	0.2
(1,2542)	1:22:B:VAL:HG21	1:53:B:PHE:HD1	2	0.2
(1,2541)	1:22:A:VAL:HG21	1:53:A:PHE:HD1	2	0.2
(1,2488)	1:86:B:PHE:HD1	1:103:B:ARG:HG3	15	0.2
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	13	0.2
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	13	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	1	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD21	3	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD21	5	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	11	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	14	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD21	17	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	18	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	19	0.2
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD22	20	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	1	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD21	3	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD21	5	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	9	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	11	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	12	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	14	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD21	17	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	18	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	19	0.2
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD22	20	0.2
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	8	0.2
(1,2364)	1:39:B:LEU:HG	1:39:B:LEU:HD12	16	0.2
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	8	0.2
(1,2363)	1:39:A:LEU:HG	1:39:A:LEU:HD12	16	0.2
(1,2360)	1:39:B:LEU:HD12	1:98:B:ALA:H	5	0.2
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	16	0.2
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	16	0.2
(1,2239)	1:85:A:THR:HG21	1:106:A:THR:HG22	3	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG13	3	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	6	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG12	10	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	11	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG13	12	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG13	17	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	19	0.2
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG12	20	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	6	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG12	10	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	11	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG13	12	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG13	17	0.2
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG12	20	0.2
(1,2170)	1:112:B:LEU:HD23	1:71:B:ILE:HB	11	0.2
(1,2169)	1:112:A:LEU:HD23	1:71:A:ILE:HB	11	0.2
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG23	10	0.2
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG23	10	0.2
(1,1874)	1:112:B:LEU:HD13	1:112:B:LEU:HD22	8	0.2
(1,1873)	1:112:A:LEU:HD13	1:112:A:LEU:HD22	8	0.2
(1,1758)	1:22:B:VAL:HB	1:52:B:TYR:HB3	13	0.2
(1,1757)	1:22:A:VAL:HB	1:52:A:TYR:HB3	13	0.2
(1,1694)	1:35:B:GLU:HG3	1:27:B:THR:HG21	2	0.2
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG21	7	0.2
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG21	7	0.2
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	8	0.2
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	17	0.2
(1,1298)	1:102:B:ILE:HD13	1:87:B:VAL:HG21	5	0.2
(1,1297)	1:102:A:ILE:HD13	1:87:A:VAL:HG21	5	0.2
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD11	4	0.2
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD11	4	0.2
(1,1268)	1:64:B:VAL:HG11	1:69:B:ARG:HG2	7	0.2
(1,1267)	1:64:A:VAL:HG11	1:69:A:ARG:HG2	7	0.2
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	18	0.2
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG21	14	0.2
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG21	9	0.2
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG22	11	0.2
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG21	14	0.2
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	10	0.2
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	5	0.2
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	5	0.2
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG12	9	0.2
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	12	0.2
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG21	15	0.2
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG23	18	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG21	15	0.2
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG23	18	0.2
(1,918)	1:22:B:VAL:HG23	1:20:B:VAL:HB	17	0.2
(1,917)	1:22:A:VAL:HG23	1:20:A:VAL:HB	17	0.2
(1,888)	1:36:B:VAL:HG11	1:30:B:ASP:HA	13	0.2
(1,887)	1:36:A:VAL:HG11	1:30:A:ASP:HA	13	0.2
(1,886)	1:36:B:VAL:HG11	1:29:B:THR:H	14	0.2
(1,885)	1:36:A:VAL:HG11	1:29:A:THR:H	14	0.2
(1,868)	1:18:B:VAL:HG11	1:57:B:LYS:HB2	9	0.2
(1,867)	1:18:A:VAL:HG11	1:57:A:LYS:HB2	9	0.2
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	14	0.2
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	19	0.2
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	19	0.2
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB3	18	0.2
(1,12)	1:48:B:VAL:HA	1:48:B:VAL:HG13	6	0.2
(1,11)	1:48:A:VAL:HA	1:48:A:VAL:HG13	6	0.2
(3,13)	1:85:A:THR:HG21	1:105:A:ASP:HB2	5	0.19
(1,4640)	1:112:B:LEU:HD13	1:71:A:ILE:H	8	0.19
(1,4640)	1:112:B:LEU:HD11	1:71:A:ILE:H	16	0.19
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD13	15	0.19
(1,4625)	1:86:A:PHE:H	1:54:B:PHE:HD2	13	0.19
(1,4625)	1:86:A:PHE:H	1:54:B:PHE:HD1	20	0.19
(1,4620)	1:44:B:ILE:HG21	1:99:A:TRP:HZ2	10	0.19
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD12	14	0.19
(1,4590)	1:9:B:MET:HB2	1:113:A:SER:HB3	15	0.19
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD13	18	0.19
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD13	18	0.19
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	12	0.19
(1,4454)	1:82:B:THR:HG21	1:107:B:ALA:H	5	0.19
(1,4452)	1:107:B:ALA:H	1:83:B:THR:HA	10	0.19
(1,4451)	1:107:A:ALA:H	1:83:A:THR:HA	10	0.19
(1,4267)	1:34:A:LYS:HG3	1:35:A:GLU:H	1	0.19
(1,4215)	1:5:A:PRO:HG2	1:6:A:VAL:H	15	0.19
(1,4190)	1:39:B:LEU:HD11	1:41:B:GLU:H	15	0.19
(1,4189)	1:39:A:LEU:HD11	1:41:A:GLU:H	15	0.19
(1,4093)	1:47:A:SER:H	1:44:A:ILE:HD12	19	0.19
(1,3880)	1:22:B:VAL:H	1:53:B:PHE:HB3	2	0.19
(1,3879)	1:22:A:VAL:H	1:53:A:PHE:HB3	1	0.19
(1,3879)	1:22:A:VAL:H	1:53:A:PHE:HB3	2	0.19
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	15	0.19
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	10	0.19
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	10	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	11	0.19
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	20	0.19
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	11	0.19
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	16	0.19
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	20	0.19
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	11	0.19
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	18	0.19
(1,3640)	1:96:B:GLN:HE21	1:96:B:GLN:HA	9	0.19
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	16	0.19
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	16	0.19
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	14	0.19
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG13	14	0.19
(1,3462)	1:56:B:THR:HG22	1:107:B:ALA:H	16	0.19
(1,3461)	1:56:A:THR:HG22	1:107:A:ALA:H	16	0.19
(1,3418)	1:14:B:VAL:HG12	1:15:B:CYS:H	12	0.19
(1,3352)	1:22:B:VAL:HG12	1:25:B:LYS:H	5	0.19
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	2	0.19
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	19	0.19
(1,3222)	1:67:B:GLY:HA2	1:68:B:CYS:H	9	0.19
(1,3221)	1:67:A:GLY:HA2	1:68:A:CYS:H	9	0.19
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	14	0.19
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	14	0.19
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	1	0.19
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	1	0.19
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	16	0.19
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	16	0.19
(1,2954)	1:27:B:THR:HG23	1:38:B:VAL:H	17	0.19
(1,2953)	1:27:A:THR:HG23	1:38:A:VAL:H	15	0.19
(1,2953)	1:27:A:THR:HG23	1:38:A:VAL:H	17	0.19
(1,2845)	1:113:A:SER:H	1:76:A:TRP:HE1	2	0.19
(1,2826)	1:42:B:VAL:HG21	1:43:B:ASN:H	16	0.19
(1,2825)	1:42:A:VAL:HG21	1:43:A:ASN:H	16	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	2	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD22	4	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD21	7	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	8	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	9	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	10	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	12	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	13	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	15	0.19
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD21	16	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	2	0.19
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD22	4	0.19
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD21	7	0.19
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	8	0.19
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	10	0.19
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD22	13	0.19
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	15	0.19
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD12	12	0.19
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD12	12	0.19
(1,2344)	1:111:B:VAL:HB	1:111:B:VAL:HG11	12	0.19
(1,2343)	1:111:A:VAL:HB	1:111:A:VAL:HG11	12	0.19
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	4	0.19
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	4	0.19
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG12	2	0.19
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	4	0.19
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	9	0.19
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG13	15	0.19
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG12	16	0.19
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG11	18	0.19
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG12	2	0.19
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	4	0.19
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	9	0.19
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG13	15	0.19
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG12	16	0.19
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG11	18	0.19
(1,2044)	1:69:B:ARG:HA	1:64:B:VAL:HG21	6	0.19
(1,2043)	1:69:A:ARG:HA	1:64:A:VAL:HG21	6	0.19
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD23	10	0.19
(1,1874)	1:112:B:LEU:HD13	1:112:B:LEU:HD23	13	0.19
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD22	20	0.19
(1,1873)	1:112:A:LEU:HD13	1:112:A:LEU:HD23	13	0.19
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD22	20	0.19
(1,1704)	1:20:B:VAL:HG11	1:55:B:GLU:HG2	19	0.19
(1,1703)	1:20:A:VAL:HG11	1:55:A:GLU:HG2	19	0.19
(1,1558)	1:17:B:SER:HA	1:18:B:VAL:HG22	14	0.19
(1,1557)	1:17:A:SER:HA	1:18:A:VAL:HG22	14	0.19
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	8	0.19
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	9	0.19
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	9	0.19
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG11	1	0.19
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG11	8	0.19
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	14	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	19	0.19
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	1	0.19
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	2	0.19
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	8	0.19
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	9	0.19
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	14	0.19
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	19	0.19
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	17	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	1	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	2	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	4	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	5	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	7	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	8	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	12	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	13	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	15	0.19
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	16	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	1	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	2	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	4	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	5	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	7	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	8	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	12	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	13	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	15	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	16	0.19
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	19	0.19
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	18	0.19
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG21	1	0.19
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG22	11	0.19
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG21	1	0.19
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	4	0.19
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	9	0.19
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	9	0.19
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG12	9	0.19
(1,886)	1:36:B:VAL:HG12	1:29:B:THR:H	9	0.19
(1,885)	1:36:A:VAL:HG12	1:29:A:THR:H	9	0.19
(1,885)	1:36:A:VAL:HG13	1:29:A:THR:H	10	0.19
(1,866)	1:18:B:VAL:HG11	1:18:B:VAL:HA	1	0.19
(1,866)	1:18:B:VAL:HG13	1:18:B:VAL:HA	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	7	0.19
(1,866)	1:18:B:VAL:HG13	1:18:B:VAL:HA	18	0.19
(1,865)	1:18:A:VAL:HG11	1:18:A:VAL:HA	1	0.19
(1,865)	1:18:A:VAL:HG13	1:18:A:VAL:HA	5	0.19
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	7	0.19
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	14	0.19
(1,865)	1:18:A:VAL:HG13	1:18:A:VAL:HA	18	0.19
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD12	12	0.19
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD12	12	0.19
(1,592)	1:39:B:LEU:HD12	1:98:B:ALA:HA	1	0.19
(1,324)	1:102:B:ILE:HG23	1:28:B:ALA:HB3	5	0.19
(1,324)	1:102:B:ILE:HG22	1:28:B:ALA:HB1	20	0.19
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB3	18	0.19
(1,238)	1:18:B:VAL:HG11	1:19:B:SER:HB2	7	0.19
(1,237)	1:18:A:VAL:HG11	1:19:A:SER:HB2	7	0.19
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB1	20	0.18
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB1	20	0.18
(3,14)	1:85:B:THR:HG21	1:105:B:ASP:HB2	11	0.18
(3,13)	1:85:A:THR:HG21	1:105:A:ASP:HB2	11	0.18
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	5	0.18
(1,4626)	1:86:B:PHE:H	1:54:A:PHE:HD2	3	0.18
(1,4619)	1:44:A:ILE:HG21	1:99:B:TRP:HZ2	10	0.18
(1,4615)	1:21:A:TRP:HZ2	1:31:B:ILE:HD11	17	0.18
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD13	11	0.18
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD13	11	0.18
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	12	0.18
(1,4454)	1:82:B:THR:HG21	1:107:B:ALA:H	18	0.18
(1,4453)	1:82:A:THR:HG21	1:107:A:ALA:H	18	0.18
(1,4316)	1:28:B:ALA:HB1	1:28:B:ALA:H	15	0.18
(1,4315)	1:28:A:ALA:HB1	1:28:A:ALA:H	15	0.18
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	2	0.18
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	16	0.18
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	2	0.18
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	16	0.18
(1,4264)	1:34:B:LYS:HB3	1:35:B:GLU:H	15	0.18
(1,4216)	1:5:B:PRO:HG2	1:6:B:VAL:H	15	0.18
(1,4094)	1:47:B:SER:H	1:44:B:ILE:HD12	19	0.18
(1,4002)	1:44:B:ILE:HG13	1:44:B:ILE:H	14	0.18
(1,4001)	1:44:A:ILE:HG13	1:44:A:ILE:H	14	0.18
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG13	12	0.18
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG12	14	0.18
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG12	14	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	15	0.18
(1,3822)	1:27:B:THR:HG23	1:27:B:THR:H	20	0.18
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	4	0.18
(1,3821)	1:27:A:THR:HG22	1:27:A:THR:H	7	0.18
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	20	0.18
(1,3766)	1:56:B:THR:HG23	1:18:B:VAL:H	17	0.18
(1,3765)	1:56:A:THR:HG23	1:18:A:VAL:H	17	0.18
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	16	0.18
(1,3762)	1:18:B:VAL:HG21	1:18:B:VAL:H	17	0.18
(1,3761)	1:18:A:VAL:HG21	1:18:A:VAL:H	17	0.18
(1,3731)	1:11:A:GLU:H	1:11:A:GLU:HB2	6	0.18
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	4	0.18
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	4	0.18
(1,3640)	1:96:B:GLN:HE21	1:96:B:GLN:HA	12	0.18
(1,3639)	1:96:A:GLN:HE21	1:96:A:GLN:HA	12	0.18
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	11	0.18
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	14	0.18
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG13	14	0.18
(1,3418)	1:14:B:VAL:HG12	1:15:B:CYS:H	5	0.18
(1,3417)	1:14:A:VAL:HG12	1:15:A:CYS:H	5	0.18
(1,3376)	1:88:B:LYS:HG2	1:88:B:LYS:H	11	0.18
(1,3375)	1:88:A:LYS:HG2	1:88:A:LYS:H	11	0.18
(1,3363)	1:97:A:ALA:HB2	1:98:A:ALA:H	15	0.18
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	2	0.18
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	19	0.18
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	15	0.18
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	15	0.18
(1,2942)	1:44:B:ILE:HB	1:44:B:ILE:H	2	0.18
(1,2941)	1:44:A:ILE:HB	1:44:A:ILE:H	2	0.18
(1,2924)	1:59:B:ARG:H	1:16:B:ASP:HB2	8	0.18
(1,2923)	1:59:A:ARG:H	1:16:A:ASP:HB2	8	0.18
(1,2846)	1:113:B:SER:H	1:76:B:TRP:HE1	2	0.18
(1,2804)	1:92:B:THR:H	1:37:B:THR:HB	9	0.18
(1,2804)	1:92:B:THR:H	1:37:B:THR:HB	11	0.18
(1,2803)	1:92:A:THR:H	1:37:A:THR:HB	9	0.18
(1,2803)	1:92:A:THR:H	1:37:A:THR:HB	11	0.18
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	16	0.18
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	12	0.18
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	12	0.18
(1,2542)	1:22:B:VAL:HG23	1:53:B:PHE:HD1	9	0.18
(1,2541)	1:22:A:VAL:HG23	1:53:A:PHE:HD1	9	0.18
(1,2432)	1:39:B:LEU:HG	1:39:B:LEU:HD23	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD23	6	0.18
(1,2431)	1:39:A:LEU:HG	1:39:A:LEU:HD21	16	0.18
(1,2406)	1:34:B:LYS:HG3	1:34:B:LYS:HE3	2	0.18
(1,2405)	1:34:A:LYS:HG3	1:34:A:LYS:HE3	2	0.18
(1,2186)	1:42:B:VAL:HB	1:42:B:VAL:HG13	13	0.18
(1,2185)	1:42:A:VAL:HB	1:42:A:VAL:HG13	13	0.18
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	14	0.18
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	14	0.18
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	14	0.18
(1,1886)	1:112:B:LEU:HD23	1:77:B:ASN:HA	2	0.18
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD21	9	0.18
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD23	11	0.18
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD22	18	0.18
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD21	19	0.18
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD21	9	0.18
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD23	10	0.18
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD23	11	0.18
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD22	18	0.18
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD21	19	0.18
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD21	19	0.18
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD21	19	0.18
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	4	0.18
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	7	0.18
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	8	0.18
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	4	0.18
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	7	0.18
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	8	0.18
(1,1551)	1:44:A:ILE:HA	1:44:A:ILE:HG21	6	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	2	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG11	4	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	9	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG11	15	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	16	0.18
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG12	20	0.18
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	4	0.18
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG12	6	0.18
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	15	0.18
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	16	0.18
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG12	20	0.18
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	4	0.18
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	4	0.18
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	3	0.18
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	6	0.18
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	11	0.18
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	18	0.18
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	19	0.18
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	3	0.18
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	6	0.18
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	11	0.18
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	17	0.18
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	18	0.18
(1,1286)	1:87:B:VAL:HG12	1:102:B:ILE:HD11	12	0.18
(1,1285)	1:87:A:VAL:HG12	1:102:A:ILE:HD11	12	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	1	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	5	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	6	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	10	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	11	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	13	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	14	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	17	0.18
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	19	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	1	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	5	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	6	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	9	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	10	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	11	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	13	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	14	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	17	0.18
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	19	0.18
(1,1268)	1:64:B:VAL:HG13	1:69:B:ARG:HG2	16	0.18
(1,1267)	1:64:A:VAL:HG13	1:69:A:ARG:HG2	16	0.18
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG22	19	0.18
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG22	19	0.18
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	4	0.18
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	20	0.18
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	9	0.18
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	20	0.18
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG22	12	0.18
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG22	12	0.18
(1,950)	1:22:B:VAL:HB	1:20:B:VAL:HG12	20	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,866)	1:18:B:VAL:HG13	1:18:B:VAL:HA	10	0.18
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	13	0.18
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	15	0.18
(1,865)	1:18:A:VAL:HG11	1:18:A:VAL:HA	8	0.18
(1,865)	1:18:A:VAL:HG13	1:18:A:VAL:HA	10	0.18
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	13	0.18
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	15	0.18
(1,828)	1:14:B:VAL:HG11	1:110:B:CYS:HB3	5	0.18
(1,827)	1:14:A:VAL:HG11	1:110:A:CYS:HB3	5	0.18
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD12	4	0.18
(1,591)	1:39:A:LEU:HD12	1:98:A:ALA:HA	1	0.18
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD23	5	0.18
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD23	5	0.18
(1,524)	1:116:B:ALA:HB1	1:117:B:THR:HA	5	0.18
(1,523)	1:116:A:ALA:HB1	1:117:A:THR:HA	5	0.18
(1,324)	1:102:B:ILE:HG21	1:28:B:ALA:HB1	12	0.18
(1,323)	1:102:A:ILE:HG23	1:28:A:ALA:HB3	5	0.18
(1,323)	1:102:A:ILE:HG22	1:28:A:ALA:HB1	20	0.18
(1,4639)	1:112:A:LEU:HD13	1:71:B:ILE:H	8	0.17
(1,4620)	1:44:B:ILE:HG23	1:99:A:TRP:HZ2	14	0.17
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD12	14	0.17
(1,4316)	1:28:B:ALA:HB2	1:28:B:ALA:H	14	0.17
(1,4315)	1:28:A:ALA:HB2	1:28:A:ALA:H	14	0.17
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	13	0.17
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	13	0.17
(1,4270)	1:34:B:LYS:HB2	1:35:B:GLU:H	1	0.17
(1,4269)	1:34:A:LYS:HB2	1:35:A:GLU:H	1	0.17
(1,4263)	1:34:A:LYS:HB3	1:35:A:GLU:H	15	0.17
(1,4189)	1:39:A:LEU:HD12	1:41:A:GLU:H	19	0.17
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG13	12	0.17
(1,3880)	1:22:B:VAL:H	1:53:B:PHE:HB3	4	0.17
(1,3879)	1:22:A:VAL:H	1:53:A:PHE:HB3	4	0.17
(1,3822)	1:27:B:THR:HG22	1:27:B:THR:H	7	0.17
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	10	0.17
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	10	0.17
(1,3762)	1:18:B:VAL:HG21	1:18:B:VAL:H	12	0.17
(1,3761)	1:18:A:VAL:HG21	1:18:A:VAL:H	12	0.17
(1,3732)	1:11:B:GLU:H	1:11:B:GLU:HB2	6	0.17
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	8	0.17
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	15	0.17
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	8	0.17
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	18	0.17
(1,3649)	1:20:A:VAL:HB	1:21:A:TRP:H	20	0.17
(1,3640)	1:96:B:GLN:HE21	1:96:B:GLN:HA	6	0.17
(1,3639)	1:96:A:GLN:HE21	1:96:A:GLN:HA	6	0.17
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG22	11	0.17
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	20	0.17
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	7	0.17
(1,3554)	1:74:B:LYS:HB3	1:75:B:HIS:H	10	0.17
(1,3553)	1:74:A:LYS:HB3	1:75:A:HIS:H	10	0.17
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	1	0.17
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	3	0.17
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	1	0.17
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	3	0.17
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG13	18	0.17
(1,3418)	1:14:B:VAL:HG11	1:15:B:CYS:H	2	0.17
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	2	0.17
(1,3388)	1:47:B:SER:H	1:46:B:ASN:H	8	0.17
(1,3387)	1:47:A:SER:H	1:46:A:ASN:H	8	0.17
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	14	0.17
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	11	0.17
(1,3257)	1:35:A:GLU:HB2	1:35:A:GLU:H	14	0.17
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	4	0.17
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	4	0.17
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	1	0.17
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	13	0.17
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	1	0.17
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	13	0.17
(1,2882)	1:111:B:VAL:HG11	1:81:B:THR:H	5	0.17
(1,2810)	1:39:B:LEU:HD21	1:92:B:THR:H	20	0.17
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	4	0.17
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	10	0.17
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	16	0.17
(1,2592)	1:49:B:PHE:HE1	1:42:B:VAL:HG13	10	0.17
(1,2359)	1:39:A:LEU:HD13	1:98:A:ALA:H	15	0.17
(1,2170)	1:112:B:LEU:HD21	1:71:B:ILE:HB	19	0.17
(1,2169)	1:112:A:LEU:HD21	1:71:A:ILE:HB	19	0.17
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	5	0.17
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	5	0.17
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	14	0.17
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	20	0.17
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	9	0.17
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1885)	1:112:A:LEU:HD23	1:77:A:ASN:HA	2	0.17
(1,1874)	1:112:B:LEU:HD13	1:112:B:LEU:HD21	3	0.17
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD22	5	0.17
(1,1873)	1:112:A:LEU:HD13	1:112:A:LEU:HD21	3	0.17
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD22	5	0.17
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD23	6	0.17
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	12	0.17
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	13	0.17
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	12	0.17
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	13	0.17
(1,1552)	1:44:B:ILE:HA	1:44:B:ILE:HG21	6	0.17
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	9	0.17
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	9	0.17
(1,1434)	1:22:B:VAL:HG13	1:53:B:PHE:HB3	1	0.17
(1,1433)	1:22:A:VAL:HG13	1:53:A:PHE:HB3	1	0.17
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	3	0.17
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG12	6	0.17
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG12	7	0.17
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	10	0.17
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG11	11	0.17
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG11	13	0.17
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	18	0.17
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	3	0.17
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	10	0.17
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	11	0.17
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	13	0.17
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	18	0.17
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	6	0.17
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	7	0.17
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	12	0.17
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	16	0.17
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	6	0.17
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	12	0.17
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	16	0.17
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	5	0.17
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	5	0.17
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	17	0.17
(1,1298)	1:102:B:ILE:HD13	1:87:B:VAL:HG21	3	0.17
(1,1297)	1:102:A:ILE:HD13	1:87:A:VAL:HG21	3	0.17
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	4	0.17
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	8	0.17
(1,1274)	1:118:B:ARG:HB3	1:118:B:ARG:HG2	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	4	0.17
(1,1273)	1:118:A:ARG:HB3	1:118:A:ARG:HG2	8	0.17
(1,1257)	1:64:A:VAL:HG11	1:68:A:CYS:H	9	0.17
(1,1248)	1:115:B:LYS:HD3	1:76:B:TRP:H	14	0.17
(1,1247)	1:115:A:LYS:HD3	1:76:A:TRP:H	14	0.17
(1,1112)	1:34:B:LYS:HD2	1:34:B:LYS:HB3	6	0.17
(1,1048)	1:90:B:LEU:HD21	1:97:B:ALA:HB1	6	0.17
(1,1047)	1:90:A:LEU:HD21	1:97:A:ALA:HB1	6	0.17
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG13	2	0.17
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG13	2	0.17
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	9	0.17
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	13	0.17
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	19	0.17
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	19	0.17
(1,949)	1:22:A:VAL:HB	1:20:A:VAL:HG12	20	0.17
(1,866)	1:18:B:VAL:HG13	1:18:B:VAL:HA	3	0.17
(1,866)	1:18:B:VAL:HG11	1:18:B:VAL:HA	8	0.17
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	12	0.17
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	16	0.17
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	20	0.17
(1,865)	1:18:A:VAL:HG13	1:18:A:VAL:HA	11	0.17
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	12	0.17
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	20	0.17
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD12	4	0.17
(1,324)	1:102:B:ILE:HG21	1:28:B:ALA:HB3	19	0.17
(1,323)	1:102:A:ILE:HG21	1:28:A:ALA:HB1	12	0.17
(1,323)	1:102:A:ILE:HG21	1:28:A:ALA:HB3	19	0.17
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD13	1	0.16
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD11	7	0.16
(1,4627)	1:69:A:ARG:HA	1:112:B:LEU:HD11	7	0.16
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD11	17	0.16
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG21	11	0.16
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	1	0.16
(1,4421)	1:76:A:TRP:HE1	1:112:A:LEU:HD23	9	0.16
(1,4418)	1:112:B:LEU:HD11	1:76:B:TRP:HE1	3	0.16
(1,4417)	1:112:A:LEU:HD11	1:76:A:TRP:HE1	3	0.16
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	11	0.16
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	17	0.16
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	6	0.16
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	11	0.16
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	17	0.16
(1,4190)	1:39:B:LEU:HD12	1:41:B:GLU:H	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4096)	1:47:B:SER:H	1:45:B:ASN:H	2	0.16
(1,4095)	1:47:A:SER:H	1:45:A:ASN:H	2	0.16
(1,3964)	1:11:B:GLU:HG2	1:11:B:GLU:H	19	0.16
(1,3941)	1:109:A:VAL:HG22	1:81:A:THR:H	20	0.16
(1,3834)	1:57:B:LYS:HG3	1:57:B:LYS:H	15	0.16
(1,3833)	1:57:A:LYS:HG3	1:57:A:LYS:H	15	0.16
(1,3822)	1:27:B:THR:HG23	1:27:B:THR:H	4	0.16
(1,3732)	1:11:B:GLU:H	1:11:B:GLU:HB2	12	0.16
(1,3732)	1:11:B:GLU:H	1:11:B:GLU:HB2	17	0.16
(1,3731)	1:11:A:GLU:H	1:11:A:GLU:HB2	12	0.16
(1,3731)	1:11:A:GLU:H	1:11:A:GLU:HB2	17	0.16
(1,3691)	1:94:A:GLU:HB2	1:95:A:LYS:H	12	0.16
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	19	0.16
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	19	0.16
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	18	0.16
(1,3650)	1:20:B:VAL:HB	1:21:B:TRP:H	20	0.16
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG22	10	0.16
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	7	0.16
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	15	0.16
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	20	0.16
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	8	0.16
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	9	0.16
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	18	0.16
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	8	0.16
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	18	0.16
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG13	18	0.16
(1,3480)	1:109:B:VAL:HG21	1:111:B:VAL:H	8	0.16
(1,3462)	1:56:B:THR:HG21	1:107:B:ALA:H	6	0.16
(1,3418)	1:14:B:VAL:HG12	1:15:B:CYS:H	19	0.16
(1,3417)	1:14:A:VAL:HG12	1:15:A:CYS:H	19	0.16
(1,3364)	1:97:B:ALA:HB2	1:98:B:ALA:H	15	0.16
(1,3352)	1:22:B:VAL:HG13	1:25:B:LYS:H	3	0.16
(1,3351)	1:22:A:VAL:HG13	1:25:A:LYS:H	3	0.16
(1,3258)	1:35:B:GLU:HB2	1:35:B:GLU:H	11	0.16
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	17	0.16
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	17	0.16
(1,2881)	1:111:A:VAL:HG11	1:81:A:THR:H	5	0.16
(1,2820)	1:106:B:THR:HA	1:56:B:THR:H	7	0.16
(1,2819)	1:106:A:THR:HA	1:56:A:THR:H	7	0.16
(1,2809)	1:39:A:LEU:HD21	1:92:A:THR:H	20	0.16
(1,2804)	1:92:B:THR:H	1:37:B:THR:HB	1	0.16
(1,2803)	1:92:A:THR:H	1:37:A:THR:HB	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2780)	1:29:B:THR:HG21	1:33:B:GLY:H	15	0.16
(1,2779)	1:29:A:THR:HG21	1:33:A:GLY:H	15	0.16
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	10	0.16
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	4	0.16
(1,2717)	1:42:A:VAL:HG11	1:99:A:TRP:HZ2	3	0.16
(1,2591)	1:49:A:PHE:HE1	1:42:A:VAL:HG13	10	0.16
(1,2488)	1:86:B:PHE:HD1	1:103:B:ARG:HG3	3	0.16
(1,2487)	1:86:A:PHE:HD1	1:103:A:ARG:HG3	3	0.16
(1,2360)	1:39:B:LEU:HD13	1:98:B:ALA:H	15	0.16
(1,1984)	1:8:B:HIS:HB3	1:5:B:PRO:HB3	11	0.16
(1,1983)	1:8:A:HIS:HB3	1:5:A:PRO:HB3	11	0.16
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	20	0.16
(1,1910)	1:57:B:LYS:HB2	1:57:B:LYS:HD2	2	0.16
(1,1909)	1:57:A:LYS:HB2	1:57:A:LYS:HD2	2	0.16
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD23	6	0.16
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD21	2	0.16
(1,1838)	1:38:B:VAL:HG13	1:25:B:LYS:H	15	0.16
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	5	0.16
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	7	0.16
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	16	0.16
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	18	0.16
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	19	0.16
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	7	0.16
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	16	0.16
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	18	0.16
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	19	0.16
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	13	0.16
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	13	0.16
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG11	12	0.16
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG12	7	0.16
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG11	12	0.16
(1,1292)	1:102:B:ILE:HD11	1:38:B:VAL:HB	20	0.16
(1,1291)	1:102:A:ILE:HD11	1:38:A:VAL:HB	20	0.16
(1,1268)	1:64:B:VAL:HG12	1:69:B:ARG:HG2	20	0.16
(1,1267)	1:64:A:VAL:HG12	1:69:A:ARG:HG2	20	0.16
(1,1258)	1:64:B:VAL:HG11	1:68:B:CYS:H	9	0.16
(1,1111)	1:34:A:LYS:HD2	1:34:A:LYS:HB3	6	0.16
(1,1048)	1:90:B:LEU:HD22	1:97:B:ALA:HB1	3	0.16
(1,1047)	1:90:A:LEU:HD22	1:97:A:ALA:HB1	3	0.16
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	7	0.16
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	13	0.16
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG23	6	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG23	6	0.16
(1,866)	1:18:B:VAL:HG11	1:18:B:VAL:HA	2	0.16
(1,866)	1:18:B:VAL:HG13	1:18:B:VAL:HA	11	0.16
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	17	0.16
(1,865)	1:18:A:VAL:HG11	1:18:A:VAL:HA	2	0.16
(1,865)	1:18:A:VAL:HG13	1:18:A:VAL:HA	3	0.16
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	16	0.16
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	17	0.16
(1,772)	1:87:B:VAL:HG13	1:104:B:ILE:HD12	7	0.16
(1,771)	1:87:A:VAL:HG13	1:104:A:ILE:HD12	7	0.16
(1,628)	1:64:B:VAL:HG21	1:62:B:ASN:H	3	0.16
(1,627)	1:64:A:VAL:HG21	1:62:A:ASN:H	3	0.16
(1,523)	1:116:A:ALA:HB2	1:117:A:THR:HA	19	0.16
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD13	15	0.16
(1,200)	1:112:B:LEU:HD11	1:71:B:ILE:HD11	16	0.16
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD13	15	0.16
(1,199)	1:112:A:LEU:HD11	1:71:A:ILE:HD11	16	0.16
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB1	2	0.15
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB2	15	0.15
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB1	2	0.15
(2,36)	1:103:B:ARG:H	1:104:B:ILE:HG12	2	0.15
(2,35)	1:103:A:ARG:H	1:104:A:ILE:HG12	2	0.15
(2,26)	1:49:B:PHE:H	1:44:B:ILE:HB	16	0.15
(2,25)	1:49:A:PHE:H	1:44:A:ILE:HB	16	0.15
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	5	0.15
(1,4625)	1:86:A:PHE:H	1:54:B:PHE:HD2	1	0.15
(1,4616)	1:21:B:TRP:HZ2	1:31:A:ILE:HD12	13	0.15
(1,4603)	1:12:A:PHE:HE2	1:113:B:SER:HA	8	0.15
(1,4516)	1:34:B:LYS:HB2	1:30:B:ASP:H	9	0.15
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	1	0.15
(1,4515)	1:34:A:LYS:HB2	1:30:A:ASP:H	9	0.15
(1,4453)	1:82:A:THR:HG21	1:107:A:ALA:H	19	0.15
(1,4422)	1:76:B:TRP:HE1	1:112:B:LEU:HD23	9	0.15
(1,4418)	1:112:B:LEU:HD13	1:76:B:TRP:HE1	2	0.15
(1,4418)	1:112:B:LEU:HD11	1:76:B:TRP:HE1	13	0.15
(1,4417)	1:112:A:LEU:HD13	1:76:A:TRP:HE1	2	0.15
(1,4386)	1:82:B:THR:H	1:81:B:THR:HG21	18	0.15
(1,4376)	1:76:B:TRP:H	1:73:B:SER:HA	14	0.15
(1,4375)	1:76:A:TRP:H	1:73:A:SER:HA	14	0.15
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	6	0.15
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	10	0.15
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4270)	1:34:B:LYS:HB2	1:35:B:GLU:H	19	0.15
(1,4269)	1:34:A:LYS:HB2	1:35:A:GLU:H	2	0.15
(1,4256)	1:4:B:HIS:HB2	1:7:B:PHE:H	5	0.15
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	13	0.15
(1,3963)	1:11:A:GLU:HG2	1:11:A:GLU:H	19	0.15
(1,3942)	1:109:B:VAL:HG22	1:81:B:THR:H	20	0.15
(1,3940)	1:81:B:THR:H	1:109:B:VAL:HG11	18	0.15
(1,3939)	1:81:A:THR:H	1:109:A:VAL:HG11	18	0.15
(1,3880)	1:22:B:VAL:H	1:53:B:PHE:HB3	3	0.15
(1,3879)	1:22:A:VAL:H	1:53:A:PHE:HB3	3	0.15
(1,3830)	1:57:B:LYS:H	1:17:B:SER:HB3	2	0.15
(1,3829)	1:57:A:LYS:H	1:17:A:SER:HB3	2	0.15
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	9	0.15
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	9	0.15
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	18	0.15
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	18	0.15
(1,3582)	1:76:B:TRP:HE1	1:75:B:HIS:HB3	14	0.15
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	1	0.15
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	15	0.15
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	16	0.15
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	9	0.15
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	16	0.15
(1,3479)	1:109:A:VAL:HG21	1:111:A:VAL:H	8	0.15
(1,3461)	1:56:A:THR:HG21	1:107:A:ALA:H	6	0.15
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	6	0.15
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	6	0.15
(1,3222)	1:67:B:GLY:HA2	1:68:B:CYS:H	18	0.15
(1,3221)	1:67:A:GLY:HA2	1:68:A:CYS:H	18	0.15
(1,3084)	1:26:B:THR:HG21	1:27:B:THR:H	14	0.15
(1,3083)	1:26:A:THR:HG21	1:27:A:THR:H	14	0.15
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	2	0.15
(1,2954)	1:27:B:THR:HG21	1:38:B:VAL:H	4	0.15
(1,2954)	1:27:B:THR:HG22	1:38:B:VAL:H	8	0.15
(1,2718)	1:42:B:VAL:HG11	1:99:B:TRP:HZ2	3	0.15
(1,2696)	1:86:B:PHE:HZ	1:103:B:ARG:HB3	14	0.15
(1,2695)	1:86:A:PHE:HZ	1:103:A:ARG:HB3	14	0.15
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	14	0.15
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	14	0.15
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	9	0.15
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	4	0.15
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	6	0.15
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	11	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	4	0.15
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	6	0.15
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	11	0.15
(1,1916)	1:103:B:ARG:HB2	1:103:B:ARG:HG2	20	0.15
(1,1915)	1:103:A:ARG:HB2	1:103:A:ARG:HG2	20	0.15
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG21	5	0.15
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG21	5	0.15
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD21	1	0.15
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD21	2	0.15
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD21	7	0.15
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD21	14	0.15
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD21	1	0.15
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD21	14	0.15
(1,1870)	1:76:B:TRP:HB2	1:112:B:LEU:HD23	14	0.15
(1,1837)	1:38:A:VAL:HG13	1:25:A:LYS:H	15	0.15
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	19	0.15
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	19	0.15
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	5	0.15
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG12	16	0.15
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG12	16	0.15
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG12	5	0.15
(1,1432)	1:22:B:VAL:HB	1:22:B:VAL:HG13	17	0.15
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG12	5	0.15
(1,1431)	1:22:A:VAL:HB	1:22:A:VAL:HG13	17	0.15
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	9	0.15
(1,1320)	1:31:B:ILE:HD13	1:101:B:PHE:HB2	19	0.15
(1,1319)	1:31:A:ILE:HD13	1:101:A:PHE:HB2	19	0.15
(1,1286)	1:87:B:VAL:HG13	1:102:B:ILE:HD13	7	0.15
(1,1285)	1:87:A:VAL:HG13	1:102:A:ILE:HD13	7	0.15
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	7	0.15
(1,1031)	1:114:A:ARG:HD2	1:75:A:HIS:HA	20	0.15
(1,1020)	1:115:B:LYS:HG2	1:77:B:ASN:H	16	0.15
(1,1019)	1:115:A:LYS:HG2	1:77:A:ASN:H	16	0.15
(1,974)	1:57:B:LYS:HG2	1:57:B:LYS:HE2	7	0.15
(1,973)	1:57:A:LYS:HG2	1:57:A:LYS:HE2	7	0.15
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG22	9	0.15
(1,918)	1:22:B:VAL:HG23	1:20:B:VAL:HB	19	0.15
(1,917)	1:22:A:VAL:HG23	1:20:A:VAL:HB	19	0.15
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	8	0.15
(1,908)	1:22:B:VAL:HG23	1:22:B:VAL:HB	12	0.15
(1,908)	1:22:B:VAL:HG23	1:22:B:VAL:HB	13	0.15
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,907)	1:22:A:VAL:HG23	1:22:A:VAL:HB	12	0.15
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	13	0.15
(1,866)	1:18:B:VAL:HG12	1:18:B:VAL:HA	9	0.15
(1,865)	1:18:A:VAL:HG12	1:18:A:VAL:HA	9	0.15
(1,608)	1:32:B:LYS:HG3	1:31:B:ILE:HG23	3	0.15
(1,607)	1:32:A:LYS:HG3	1:31:A:ILE:HG23	3	0.15
(1,576)	1:92:B:THR:HA	1:39:B:LEU:HD23	3	0.15
(1,575)	1:92:A:THR:HA	1:39:A:LEU:HD23	3	0.15
(1,554)	1:104:B:ILE:HD11	1:87:B:VAL:HB	18	0.15
(1,553)	1:104:A:ILE:HD11	1:87:A:VAL:HB	18	0.15
(1,524)	1:116:B:ALA:HB2	1:117:B:THR:HA	19	0.15
(1,523)	1:116:A:ALA:HB3	1:117:A:THR:HA	12	0.15
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG21	4	0.15
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG21	13	0.15
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG23	16	0.15
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG21	13	0.15
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	16	0.15
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB2	15	0.14
(2,34)	1:79:B:TYR:HB3	1:78:B:SER:H	4	0.14
(2,33)	1:79:A:TYR:HB3	1:78:A:SER:H	4	0.14
(2,26)	1:49:B:PHE:H	1:44:B:ILE:HB	3	0.14
(1,4625)	1:86:A:PHE:H	1:54:B:PHE:HD2	3	0.14
(1,4618)	1:21:B:TRP:HH2	1:31:A:ILE:HD13	11	0.14
(1,4586)	1:9:A:MET:HE2	1:118:B:ARG:HG3	2	0.14
(1,4454)	1:82:B:THR:HG21	1:107:B:ALA:H	19	0.14
(1,4439)	1:66:A:SER:H	1:67:A:GLY:H	5	0.14
(1,4422)	1:76:B:TRP:HE1	1:112:B:LEU:HD23	1	0.14
(1,4418)	1:112:B:LEU:HD13	1:76:B:TRP:HE1	9	0.14
(1,4417)	1:112:A:LEU:HD13	1:76:A:TRP:HE1	9	0.14
(1,4417)	1:112:A:LEU:HD11	1:76:A:TRP:HE1	13	0.14
(1,4385)	1:82:A:THR:H	1:81:A:THR:HG21	18	0.14
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	14	0.14
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	14	0.14
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	18	0.14
(1,4270)	1:34:B:LYS:HB2	1:35:B:GLU:H	2	0.14
(1,4269)	1:34:A:LYS:HB2	1:35:A:GLU:H	19	0.14
(1,4255)	1:4:A:HIS:HB2	1:7:A:PHE:H	5	0.14
(1,4240)	1:75:B:HIS:H	1:115:B:LYS:HB3	16	0.14
(1,4186)	1:40:B:ALA:HB3	1:41:B:GLU:H	16	0.14
(1,4185)	1:40:A:ALA:HB3	1:41:A:GLU:H	16	0.14
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	13	0.14
(1,3834)	1:57:B:LYS:HG3	1:57:B:LYS:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3833)	1:57:A:LYS:HG3	1:57:A:LYS:H	4	0.14
(1,3765)	1:56:A:THR:HG22	1:18:A:VAL:H	11	0.14
(1,3690)	1:95:B:LYS:HG2	1:95:B:LYS:H	1	0.14
(1,3689)	1:95:A:LYS:HG2	1:95:A:LYS:H	1	0.14
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	10	0.14
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG23	15	0.14
(1,3581)	1:76:A:TRP:HE1	1:75:A:HIS:HB3	14	0.14
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	4	0.14
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	1	0.14
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	4	0.14
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	7	0.14
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	10	0.14
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	12	0.14
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	7	0.14
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	12	0.14
(1,3462)	1:56:B:THR:HG21	1:107:B:ALA:H	8	0.14
(1,3461)	1:56:A:THR:HG21	1:107:A:ALA:H	8	0.14
(1,3418)	1:14:B:VAL:HG11	1:15:B:CYS:H	3	0.14
(1,3417)	1:14:A:VAL:HG13	1:15:A:CYS:H	14	0.14
(1,3414)	1:14:B:VAL:HG22	1:15:B:CYS:H	13	0.14
(1,3222)	1:67:B:GLY:HA2	1:68:B:CYS:H	20	0.14
(1,3221)	1:67:A:GLY:HA2	1:68:A:CYS:H	20	0.14
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	2	0.14
(1,3076)	1:54:B:PHE:H	1:104:B:ILE:HG13	9	0.14
(1,3075)	1:54:A:PHE:H	1:104:A:ILE:HG13	9	0.14
(1,3003)	1:62:A:ASN:HD21	1:62:A:ASN:HA	8	0.14
(1,2954)	1:27:B:THR:HG21	1:38:B:VAL:H	9	0.14
(1,2953)	1:27:A:THR:HG21	1:38:A:VAL:H	4	0.14
(1,2953)	1:27:A:THR:HG22	1:38:A:VAL:H	8	0.14
(1,2742)	1:62:B:ASN:HB2	1:64:B:VAL:H	5	0.14
(1,2741)	1:62:A:ASN:HB2	1:64:A:VAL:H	5	0.14
(1,2572)	1:50:B:ARG:HD2	1:52:B:TYR:HE1	16	0.14
(1,2571)	1:50:A:ARG:HD2	1:52:A:TYR:HE1	16	0.14
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	10	0.14
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	1	0.14
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	3	0.14
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	1	0.14
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	3	0.14
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	9	0.14
(1,2170)	1:112:B:LEU:HD21	1:71:B:ILE:HB	13	0.14
(1,2169)	1:112:A:LEU:HD21	1:71:A:ILE:HB	13	0.14
(1,2114)	1:93:B:ASP:HB2	1:36:B:VAL:HG22	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2008)	1:88:B:LYS:HG2	1:88:B:LYS:HE2	3	0.14
(1,2007)	1:88:A:LYS:HG2	1:88:A:LYS:HE2	3	0.14
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD21	7	0.14
(1,1869)	1:76:A:TRP:HB2	1:112:A:LEU:HD23	14	0.14
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD23	11	0.14
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD23	11	0.14
(1,1704)	1:20:B:VAL:HG12	1:55:B:GLU:HG2	11	0.14
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	9	0.14
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	14	0.14
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	14	0.14
(1,1298)	1:102:B:ILE:HD12	1:87:B:VAL:HG23	1	0.14
(1,1298)	1:102:B:ILE:HD13	1:87:B:VAL:HG21	6	0.14
(1,1297)	1:102:A:ILE:HD12	1:87:A:VAL:HG23	1	0.14
(1,1048)	1:90:B:LEU:HD22	1:97:B:ALA:HB2	7	0.14
(1,1032)	1:114:B:ARG:HD2	1:75:B:HIS:HA	20	0.14
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG22	9	0.14
(1,950)	1:22:B:VAL:HB	1:20:B:VAL:HG13	4	0.14
(1,949)	1:22:A:VAL:HB	1:20:A:VAL:HG13	4	0.14
(1,908)	1:22:B:VAL:HG23	1:22:B:VAL:HB	1	0.14
(1,908)	1:22:B:VAL:HG21	1:22:B:VAL:HB	3	0.14
(1,908)	1:22:B:VAL:HG23	1:22:B:VAL:HB	4	0.14
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	5	0.14
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	7	0.14
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	10	0.14
(1,908)	1:22:B:VAL:HG21	1:22:B:VAL:HB	11	0.14
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	14	0.14
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	15	0.14
(1,908)	1:22:B:VAL:HG21	1:22:B:VAL:HB	16	0.14
(1,908)	1:22:B:VAL:HG23	1:22:B:VAL:HB	17	0.14
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	18	0.14
(1,908)	1:22:B:VAL:HG23	1:22:B:VAL:HB	19	0.14
(1,908)	1:22:B:VAL:HG21	1:22:B:VAL:HB	20	0.14
(1,907)	1:22:A:VAL:HG23	1:22:A:VAL:HB	1	0.14
(1,907)	1:22:A:VAL:HG21	1:22:A:VAL:HB	3	0.14
(1,907)	1:22:A:VAL:HG23	1:22:A:VAL:HB	4	0.14
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	5	0.14
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	7	0.14
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	10	0.14
(1,907)	1:22:A:VAL:HG21	1:22:A:VAL:HB	11	0.14
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	14	0.14
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	15	0.14
(1,907)	1:22:A:VAL:HG21	1:22:A:VAL:HB	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,907)	1:22:A:VAL:HG23	1:22:A:VAL:HB	17	0.14
(1,907)	1:22:A:VAL:HG23	1:22:A:VAL:HB	19	0.14
(1,907)	1:22:A:VAL:HG21	1:22:A:VAL:HB	20	0.14
(1,826)	1:14:B:VAL:HG12	1:15:B:CYS:HB3	10	0.14
(1,825)	1:14:A:VAL:HG12	1:15:A:CYS:HB3	10	0.14
(1,772)	1:87:B:VAL:HG12	1:104:B:ILE:HD12	11	0.14
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB2	8	0.14
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB2	8	0.14
(1,524)	1:116:B:ALA:HB3	1:117:B:THR:HA	12	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG21	2	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG21	3	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG22	6	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG22	7	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG23	8	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG21	12	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG23	14	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG21	15	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG23	18	0.14
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG23	19	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG21	2	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG21	3	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	4	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	7	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG23	8	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG21	12	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG23	14	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG21	15	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG23	18	0.14
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG23	19	0.14
(1,383)	1:6:A:VAL:HG13	1:10:A:GLY:HA2	13	0.14
(1,200)	1:112:B:LEU:HD12	1:71:B:ILE:HD11	9	0.14
(1,199)	1:112:A:LEU:HD12	1:71:A:ILE:HD11	9	0.14
(2,25)	1:49:A:PHE:H	1:44:A:ILE:HB	3	0.13
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD12	16	0.13
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD13	12	0.13
(1,4630)	1:70:B:GLY:HA3	1:112:A:LEU:HG	19	0.13
(1,4619)	1:44:A:ILE:HG23	1:99:B:TRP:HZ2	15	0.13
(1,4608)	1:112:B:LEU:HD13	1:14:A:VAL:HG21	8	0.13
(1,4588)	1:9:B:MET:HE2	1:118:A:ARG:HG3	2	0.13
(1,4534)	1:43:B:ASN:HD21	1:39:B:LEU:HD11	17	0.13
(1,4533)	1:43:A:ASN:HD21	1:39:A:LEU:HD11	17	0.13
(1,4527)	1:45:A:ASN:HD21	1:45:A:ASN:HA	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4421)	1:76:A:TRP:HE1	1:112:A:LEU:HD23	1	0.13
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	4	0.13
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	12	0.13
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	18	0.13
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	4	0.13
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	12	0.13
(1,4239)	1:75:A:HIS:H	1:115:A:LYS:HB3	16	0.13
(1,4191)	1:49:A:PHE:HA	1:42:A:VAL:H	2	0.13
(1,4094)	1:47:B:SER:H	1:44:B:ILE:HD11	17	0.13
(1,4093)	1:47:A:SER:H	1:44:A:ILE:HD13	7	0.13
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	19	0.13
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	19	0.13
(1,3880)	1:22:B:VAL:H	1:53:B:PHE:HB3	11	0.13
(1,3879)	1:22:A:VAL:H	1:53:A:PHE:HB3	11	0.13
(1,3834)	1:57:B:LYS:HG3	1:57:B:LYS:H	2	0.13
(1,3833)	1:57:A:LYS:HG3	1:57:A:LYS:H	2	0.13
(1,3833)	1:57:A:LYS:HG3	1:57:A:LYS:H	14	0.13
(1,3806)	1:36:B:VAL:HG22	1:93:B:ASP:H	18	0.13
(1,3766)	1:56:B:THR:HG22	1:18:B:VAL:H	11	0.13
(1,3761)	1:18:A:VAL:HG23	1:18:A:VAL:H	2	0.13
(1,3692)	1:94:B:GLU:HB2	1:95:B:LYS:H	12	0.13
(1,3662)	1:102:B:ILE:HG23	1:30:B:ASP:H	15	0.13
(1,3661)	1:102:A:ILE:HG23	1:30:A:ASP:H	15	0.13
(1,3630)	1:29:B:THR:H	1:102:B:ILE:HG23	15	0.13
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	20	0.13
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	10	0.13
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	20	0.13
(1,3418)	1:14:B:VAL:HG13	1:15:B:CYS:H	14	0.13
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	3	0.13
(1,3413)	1:14:A:VAL:HG22	1:15:A:CYS:H	13	0.13
(1,3364)	1:97:B:ALA:HB1	1:98:B:ALA:H	1	0.13
(1,3363)	1:97:A:ALA:HB1	1:98:A:ALA:H	1	0.13
(1,3358)	1:24:B:ASP:H	1:25:B:LYS:H	20	0.13
(1,3357)	1:24:A:ASP:H	1:25:A:LYS:H	20	0.13
(1,3264)	1:117:B:THR:HA	1:118:B:ARG:H	9	0.13
(1,3263)	1:117:A:THR:HA	1:118:A:ARG:H	9	0.13
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	5	0.13
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	5	0.13
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	8	0.13
(1,2953)	1:27:A:THR:HG21	1:38:A:VAL:H	9	0.13
(1,2792)	1:76:B:TRP:HB3	1:76:B:TRP:H	15	0.13
(1,2792)	1:76:B:TRP:HB3	1:76:B:TRP:H	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2791)	1:76:A:TRP:HB3	1:76:A:TRP:H	15	0.13
(1,2791)	1:76:A:TRP:HB3	1:76:A:TRP:H	16	0.13
(1,2662)	1:6:B:VAL:HG13	1:4:B:HIS:HD2	5	0.13
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	9	0.13
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	10	0.13
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	4	0.13
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	7	0.13
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	15	0.13
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	19	0.13
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	4	0.13
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	7	0.13
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	15	0.13
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	19	0.13
(1,2367)	1:92:A:THR:HB	1:39:A:LEU:HD11	2	0.13
(1,2360)	1:39:B:LEU:HD13	1:98:B:ALA:H	7	0.13
(1,2360)	1:39:B:LEU:HD12	1:98:B:ALA:H	17	0.13
(1,2360)	1:39:B:LEU:HD11	1:98:B:ALA:H	18	0.13
(1,2359)	1:39:A:LEU:HD13	1:98:A:ALA:H	7	0.13
(1,2359)	1:39:A:LEU:HD11	1:98:A:ALA:H	18	0.13
(1,2113)	1:93:A:ASP:HB2	1:36:A:VAL:HG22	16	0.13
(1,1934)	1:20:B:VAL:HG12	1:55:B:GLU:HG3	3	0.13
(1,1906)	1:57:B:LYS:HG3	1:57:B:LYS:HD2	2	0.13
(1,1906)	1:57:B:LYS:HG3	1:57:B:LYS:HD2	4	0.13
(1,1906)	1:57:B:LYS:HG3	1:57:B:LYS:HD2	14	0.13
(1,1906)	1:57:B:LYS:HG3	1:57:B:LYS:HD2	15	0.13
(1,1905)	1:57:A:LYS:HG3	1:57:A:LYS:HD2	2	0.13
(1,1905)	1:57:A:LYS:HG3	1:57:A:LYS:HD2	4	0.13
(1,1905)	1:57:A:LYS:HG3	1:57:A:LYS:HD2	14	0.13
(1,1905)	1:57:A:LYS:HG3	1:57:A:LYS:HD2	15	0.13
(1,1894)	1:76:B:TRP:HB3	1:71:B:ILE:HG22	14	0.13
(1,1893)	1:76:A:TRP:HB3	1:71:A:ILE:HG22	14	0.13
(1,1874)	1:112:B:LEU:HD12	1:112:B:LEU:HD22	4	0.13
(1,1874)	1:112:B:LEU:HD13	1:112:B:LEU:HD22	12	0.13
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD21	15	0.13
(1,1874)	1:112:B:LEU:HD11	1:112:B:LEU:HD22	16	0.13
(1,1873)	1:112:A:LEU:HD12	1:112:A:LEU:HD22	4	0.13
(1,1873)	1:112:A:LEU:HD13	1:112:A:LEU:HD22	12	0.13
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD21	15	0.13
(1,1873)	1:112:A:LEU:HD11	1:112:A:LEU:HD22	16	0.13
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	4	0.13
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	7	0.13
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	20	0.13
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	7	0.13
(1,1703)	1:20:A:VAL:HG12	1:55:A:GLU:HG2	11	0.13
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	6	0.13
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	13	0.13
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	6	0.13
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	13	0.13
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	9	0.13
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	9	0.13
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	1	0.13
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	14	0.13
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	1	0.13
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	11	0.13
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	14	0.13
(1,1302)	1:103:B:ARG:HB3	1:103:B:ARG:HG3	10	0.13
(1,1301)	1:103:A:ARG:HB3	1:103:A:ARG:HG3	10	0.13
(1,1297)	1:102:A:ILE:HD13	1:87:A:VAL:HG21	6	0.13
(1,1258)	1:64:B:VAL:HG11	1:68:B:CYS:H	7	0.13
(1,1257)	1:64:A:VAL:HG11	1:68:A:CYS:H	7	0.13
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG23	16	0.13
(1,1238)	1:32:B:LYS:HD2	1:31:B:ILE:HG22	20	0.13
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG22	20	0.13
(1,1198)	1:112:B:LEU:HD13	1:76:B:TRP:HB2	10	0.13
(1,1197)	1:112:A:LEU:HD13	1:76:A:TRP:HB2	10	0.13
(1,1048)	1:90:B:LEU:HD21	1:97:B:ALA:HB1	18	0.13
(1,1047)	1:90:A:LEU:HD22	1:97:A:ALA:HB2	7	0.13
(1,1047)	1:90:A:LEU:HD21	1:97:A:ALA:HB1	18	0.13
(1,1002)	1:5:B:PRO:HA	1:6:B:VAL:HB	14	0.13
(1,1001)	1:5:A:PRO:HA	1:6:A:VAL:HB	14	0.13
(1,984)	1:44:B:ILE:HB	1:44:B:ILE:HD12	19	0.13
(1,983)	1:44:A:ILE:HB	1:44:A:ILE:HD12	19	0.13
(1,908)	1:22:B:VAL:HG21	1:22:B:VAL:HB	2	0.13
(1,908)	1:22:B:VAL:HG22	1:22:B:VAL:HB	6	0.13
(1,908)	1:22:B:VAL:HG23	1:22:B:VAL:HB	9	0.13
(1,907)	1:22:A:VAL:HG21	1:22:A:VAL:HB	2	0.13
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	6	0.13
(1,907)	1:22:A:VAL:HG23	1:22:A:VAL:HB	9	0.13
(1,907)	1:22:A:VAL:HG22	1:22:A:VAL:HB	18	0.13
(1,883)	1:36:A:VAL:HG11	1:91:A:THR:HB	2	0.13
(1,802)	1:90:B:LEU:HD21	1:39:B:LEU:HD13	13	0.13
(1,801)	1:90:A:LEU:HD21	1:39:A:LEU:HD13	13	0.13
(1,771)	1:87:A:VAL:HG12	1:104:A:ILE:HD12	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB1	1	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB2	3	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	6	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	7	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	9	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	10	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB1	11	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB2	13	0.13
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB2	18	0.13
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB1	1	0.13
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB2	3	0.13
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	6	0.13
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	7	0.13
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	10	0.13
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB2	13	0.13
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB2	18	0.13
(1,554)	1:104:B:ILE:HD12	1:87:B:VAL:HB	5	0.13
(1,553)	1:104:A:ILE:HD12	1:87:A:VAL:HB	5	0.13
(1,552)	1:104:B:ILE:HD11	1:104:B:ILE:HG12	2	0.13
(1,552)	1:104:B:ILE:HD11	1:104:B:ILE:HG12	8	0.13
(1,552)	1:104:B:ILE:HD11	1:104:B:ILE:HG12	9	0.13
(1,552)	1:104:B:ILE:HD12	1:104:B:ILE:HG12	14	0.13
(1,552)	1:104:B:ILE:HD13	1:104:B:ILE:HG12	17	0.13
(1,551)	1:104:A:ILE:HD11	1:104:A:ILE:HG12	2	0.13
(1,551)	1:104:A:ILE:HD11	1:104:A:ILE:HG12	8	0.13
(1,551)	1:104:A:ILE:HD11	1:104:A:ILE:HG12	9	0.13
(1,551)	1:104:A:ILE:HD12	1:104:A:ILE:HG12	14	0.13
(1,551)	1:104:A:ILE:HD13	1:104:A:ILE:HG12	17	0.13
(1,551)	1:104:A:ILE:HD11	1:104:A:ILE:HG12	20	0.13
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG22	1	0.13
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG22	5	0.13
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG22	9	0.13
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG23	11	0.13
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG22	17	0.13
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG23	20	0.13
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	1	0.13
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	5	0.13
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	6	0.13
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	9	0.13
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG23	11	0.13
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	17	0.13
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG23	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,384)	1:6:B:VAL:HG13	1:10:B:GLY:HA2	13	0.13
(1,324)	1:102:B:ILE:HG22	1:28:B:ALA:HB3	13	0.13
(1,323)	1:102:A:ILE:HG22	1:28:A:ALA:HB3	13	0.13
(2,34)	1:79:B:TYR:HB3	1:78:B:SER:H	6	0.12
(2,33)	1:79:A:TYR:HB3	1:78:A:SER:H	6	0.12
(1,4635)	1:70:A:GLY:HA2	1:76:B:TRP:HE1	13	0.12
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD12	16	0.12
(1,4629)	1:70:A:GLY:HA3	1:112:B:LEU:HG	19	0.12
(1,4617)	1:21:A:TRP:HH2	1:31:B:ILE:HD13	11	0.12
(1,4612)	1:71:B:ILE:HD12	1:14:A:VAL:HB	9	0.12
(1,4607)	1:112:A:LEU:HD13	1:14:B:VAL:HG21	8	0.12
(1,4604)	1:12:B:PHE:HE1	1:113:A:SER:HA	7	0.12
(1,4588)	1:9:B:MET:HE1	1:118:A:ARG:HG3	12	0.12
(1,4528)	1:45:B:ASN:HD21	1:45:B:ASN:HA	6	0.12
(1,4440)	1:66:B:SER:H	1:67:B:GLY:H	5	0.12
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	9	0.12
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	20	0.12
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	3	0.12
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	20	0.12
(1,4268)	1:34:B:LYS:HG3	1:35:B:GLU:H	2	0.12
(1,4192)	1:49:B:PHE:HA	1:42:B:VAL:H	2	0.12
(1,4094)	1:47:B:SER:H	1:44:B:ILE:HD13	7	0.12
(1,4093)	1:47:A:SER:H	1:44:A:ILE:HD11	17	0.12
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	1	0.12
(1,4083)	1:43:A:ASN:HA	1:47:A:SER:H	20	0.12
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	18	0.12
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	18	0.12
(1,3942)	1:109:B:VAL:HG21	1:81:B:THR:H	9	0.12
(1,3941)	1:109:A:VAL:HG21	1:81:A:THR:H	9	0.12
(1,3834)	1:57:B:LYS:HG3	1:57:B:LYS:H	14	0.12
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	3	0.12
(1,3822)	1:27:B:THR:HG21	1:27:B:THR:H	5	0.12
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	5	0.12
(1,3805)	1:36:A:VAL:HG22	1:93:A:ASP:H	18	0.12
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	4	0.12
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	19	0.12
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	19	0.12
(1,3762)	1:18:B:VAL:HG23	1:18:B:VAL:H	2	0.12
(1,3732)	1:11:B:GLU:H	1:11:B:GLU:HB2	7	0.12
(1,3732)	1:11:B:GLU:H	1:11:B:GLU:HB2	15	0.12
(1,3731)	1:11:A:GLU:H	1:11:A:GLU:HB2	7	0.12
(1,3731)	1:11:A:GLU:H	1:11:A:GLU:HB2	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3483)	1:41:A:GLU:H	1:42:A:VAL:HG13	5	0.12
(1,3480)	1:109:B:VAL:HG23	1:111:B:VAL:H	14	0.12
(1,3184)	1:14:B:VAL:HG13	1:110:B:CYS:H	1	0.12
(1,3183)	1:14:A:VAL:HG13	1:110:A:CYS:H	1	0.12
(1,3026)	1:114:B:ARG:HB2	1:114:B:ARG:H	12	0.12
(1,3025)	1:114:A:ARG:HB2	1:114:A:ARG:H	12	0.12
(1,2926)	1:59:B:ARG:HG3	1:59:B:ARG:H	9	0.12
(1,2925)	1:59:A:ARG:HG3	1:59:A:ARG:H	9	0.12
(1,2846)	1:113:B:SER:H	1:76:B:TRP:HE1	5	0.12
(1,2792)	1:76:B:TRP:HB3	1:76:B:TRP:H	17	0.12
(1,2791)	1:76:A:TRP:HB3	1:76:A:TRP:H	17	0.12
(1,2661)	1:6:A:VAL:HG13	1:4:A:HIS:HD2	5	0.12
(1,2566)	1:50:B:ARG:HG2	1:52:B:TYR:HE1	5	0.12
(1,2565)	1:50:A:ARG:HG2	1:52:A:TYR:HE1	5	0.12
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	6	0.12
(1,2442)	1:105:B:ASP:HB2	1:56:B:THR:HB	2	0.12
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	9	0.12
(1,2368)	1:92:B:THR:HB	1:39:B:LEU:HD11	2	0.12
(1,2359)	1:39:A:LEU:HD12	1:98:A:ALA:H	17	0.12
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	5	0.12
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	19	0.12
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	5	0.12
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	15	0.12
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	16	0.12
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	17	0.12
(1,1962)	1:115:B:LYS:HG2	1:115:B:LYS:HE2	19	0.12
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	15	0.12
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	16	0.12
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	17	0.12
(1,1933)	1:20:A:VAL:HG12	1:55:A:GLU:HG3	3	0.12
(1,1882)	1:112:B:LEU:HD21	1:71:B:ILE:HA	14	0.12
(1,1881)	1:112:A:LEU:HD21	1:71:A:ILE:HA	14	0.12
(1,1874)	1:112:B:LEU:HD13	1:112:B:LEU:HD23	17	0.12
(1,1873)	1:112:A:LEU:HD13	1:112:A:LEU:HD23	17	0.12
(1,1870)	1:76:B:TRP:HB2	1:112:B:LEU:HD23	2	0.12
(1,1869)	1:76:A:TRP:HB2	1:112:A:LEU:HD23	2	0.12
(1,1863)	1:68:A:CYS:HB2	1:112:A:LEU:HD22	18	0.12
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	4	0.12
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	15	0.12
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	20	0.12
(1,1694)	1:35:B:GLU:HG3	1:27:B:THR:HG22	3	0.12
(1,1693)	1:35:A:GLU:HG3	1:27:A:THR:HG22	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	18	0.12
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	18	0.12
(1,1531)	1:83:A:THR:HA	1:83:A:THR:HG23	15	0.12
(1,1505)	1:69:A:ARG:HD3	1:69:A:ARG:HB2	3	0.12
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	11	0.12
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG11	12	0.12
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG11	12	0.12
(1,1423)	1:88:A:LYS:HD2	1:88:A:LYS:HB2	18	0.12
(1,1298)	1:102:B:ILE:HD13	1:87:B:VAL:HG23	20	0.12
(1,1297)	1:102:A:ILE:HD13	1:87:A:VAL:HG23	20	0.12
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG13	2	0.12
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG13	2	0.12
(1,1258)	1:64:B:VAL:HG13	1:68:B:CYS:H	16	0.12
(1,1257)	1:64:A:VAL:HG13	1:68:A:CYS:H	16	0.12
(1,1237)	1:32:A:LYS:HD2	1:31:A:ILE:HG23	16	0.12
(1,1150)	1:41:B:GLU:HG2	1:40:B:ALA:HB1	2	0.12
(1,1149)	1:41:A:GLU:HG2	1:40:A:ALA:HB1	2	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	1	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	2	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	3	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	7	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	8	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	10	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	11	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	16	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	18	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	19	0.12
(1,1008)	1:96:B:GLN:HG2	1:96:B:GLN:HB3	20	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	1	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	2	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	3	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	7	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	8	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	10	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	11	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	16	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	18	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	19	0.12
(1,1007)	1:96:A:GLN:HG2	1:96:A:GLN:HB3	20	0.12
(1,992)	1:55:B:GLU:HB3	1:20:B:VAL:HG11	8	0.12
(1,991)	1:55:A:GLU:HB3	1:20:A:VAL:HG11	8	0.12
(1,918)	1:22:B:VAL:HG22	1:20:B:VAL:HB	7	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,917)	1:22:A:VAL:HG22	1:20:A:VAL:HB	7	0.12
(1,884)	1:36:B:VAL:HG11	1:91:B:THR:HB	2	0.12
(1,862)	1:18:B:VAL:HG13	1:59:B:ARG:HB2	4	0.12
(1,861)	1:18:A:VAL:HG13	1:59:A:ARG:HB2	4	0.12
(1,826)	1:14:B:VAL:HG12	1:15:B:CYS:HB3	5	0.12
(1,826)	1:14:B:VAL:HG11	1:15:B:CYS:HB3	16	0.12
(1,825)	1:14:A:VAL:HG12	1:15:A:CYS:HB3	5	0.12
(1,825)	1:14:A:VAL:HG11	1:15:A:CYS:HB3	16	0.12
(1,772)	1:87:B:VAL:HG13	1:104:B:ILE:HD11	20	0.12
(1,771)	1:87:A:VAL:HG13	1:104:A:ILE:HD11	20	0.12
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	4	0.12
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	5	0.12
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	14	0.12
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB2	16	0.12
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB2	17	0.12
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB1	19	0.12
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB1	20	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	4	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	5	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	9	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB1	11	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	14	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB3	15	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB2	16	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB2	17	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB1	19	0.12
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB1	20	0.12
(1,608)	1:32:B:LYS:HG3	1:31:B:ILE:HG22	5	0.12
(1,607)	1:32:A:LYS:HG3	1:31:A:ILE:HG22	5	0.12
(1,552)	1:104:B:ILE:HD13	1:104:B:ILE:HG12	1	0.12
(1,552)	1:104:B:ILE:HD13	1:104:B:ILE:HG12	3	0.12
(1,552)	1:104:B:ILE:HD12	1:104:B:ILE:HG12	4	0.12
(1,552)	1:104:B:ILE:HD11	1:104:B:ILE:HG12	5	0.12
(1,552)	1:104:B:ILE:HD11	1:104:B:ILE:HG12	6	0.12
(1,552)	1:104:B:ILE:HD12	1:104:B:ILE:HG12	7	0.12
(1,552)	1:104:B:ILE:HD12	1:104:B:ILE:HG12	10	0.12
(1,552)	1:104:B:ILE:HD12	1:104:B:ILE:HG12	11	0.12
(1,552)	1:104:B:ILE:HD11	1:104:B:ILE:HG12	15	0.12
(1,552)	1:104:B:ILE:HD12	1:104:B:ILE:HG12	19	0.12
(1,552)	1:104:B:ILE:HD11	1:104:B:ILE:HG12	20	0.12
(1,551)	1:104:A:ILE:HD13	1:104:A:ILE:HG12	1	0.12
(1,551)	1:104:A:ILE:HD13	1:104:A:ILE:HG12	3	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,551)	1:104:A:ILE:HD12	1:104:A:ILE:HG12	4	0.12
(1,551)	1:104:A:ILE:HD11	1:104:A:ILE:HG12	5	0.12
(1,551)	1:104:A:ILE:HD11	1:104:A:ILE:HG12	6	0.12
(1,551)	1:104:A:ILE:HD12	1:104:A:ILE:HG12	10	0.12
(1,551)	1:104:A:ILE:HD12	1:104:A:ILE:HG12	11	0.12
(1,551)	1:104:A:ILE:HD12	1:104:A:ILE:HG12	12	0.12
(1,551)	1:104:A:ILE:HD11	1:104:A:ILE:HG12	15	0.12
(1,523)	1:116:A:ALA:HB3	1:117:A:THR:HA	8	0.12
(1,470)	1:111:B:VAL:HB	1:111:B:VAL:HG22	10	0.12
(1,469)	1:111:A:VAL:HB	1:111:A:VAL:HG22	10	0.12
(3,22)	1:100:B:ARG:H	1:89:B:ALA:HB3	18	0.11
(3,21)	1:100:A:ARG:H	1:89:A:ALA:HB3	18	0.11
(2,36)	1:103:B:ARG:H	1:104:B:ILE:HG12	1	0.11
(2,35)	1:103:A:ARG:H	1:104:A:ILE:HG12	1	0.11
(1,4639)	1:112:A:LEU:HD11	1:71:B:ILE:H	5	0.11
(1,4639)	1:112:A:LEU:HD12	1:71:B:ILE:H	9	0.11
(1,4636)	1:70:B:GLY:HA2	1:76:A:TRP:HE1	13	0.11
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD13	4	0.11
(1,4634)	1:70:B:GLY:H	1:112:A:LEU:HD13	12	0.11
(1,4633)	1:70:A:GLY:H	1:112:B:LEU:HD13	4	0.11
(1,4628)	1:69:B:ARG:HA	1:112:A:LEU:HD12	20	0.11
(1,4605)	1:13:A:SER:H	1:111:B:VAL:HA	14	0.11
(1,4603)	1:12:A:PHE:HE1	1:113:B:SER:HA	7	0.11
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG21	12	0.11
(1,4598)	1:12:B:PHE:H	1:111:A:VAL:HG21	14	0.11
(1,4440)	1:66:B:SER:H	1:67:B:GLY:H	4	0.11
(1,4439)	1:66:A:SER:H	1:67:A:GLY:H	4	0.11
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	3	0.11
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	5	0.11
(1,4306)	1:36:B:VAL:HA	1:28:B:ALA:H	8	0.11
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	5	0.11
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	8	0.11
(1,4305)	1:36:A:VAL:HA	1:28:A:ALA:H	9	0.11
(1,4267)	1:34:A:LYS:HG3	1:35:A:GLU:H	2	0.11
(1,4179)	1:117:A:THR:HB	1:118:A:ARG:H	14	0.11
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	3	0.11
(1,4086)	1:44:B:ILE:H	1:47:B:SER:H	11	0.11
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	1	0.11
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	3	0.11
(1,3879)	1:22:A:VAL:H	1:53:A:PHE:HB3	16	0.11
(1,3821)	1:27:A:THR:HG21	1:27:A:THR:H	3	0.11
(1,3800)	1:62:B:ASN:HD21	1:79:B:TYR:HA	16	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	4	0.11
(1,3768)	1:18:B:VAL:H	1:59:B:ARG:HB3	5	0.11
(1,3767)	1:18:A:VAL:H	1:59:A:ARG:HB3	5	0.11
(1,3766)	1:56:B:THR:HG23	1:18:B:VAL:H	13	0.11
(1,3765)	1:56:A:THR:HG23	1:18:A:VAL:H	13	0.11
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG22	14	0.11
(1,3580)	1:45:B:ASN:HD22	1:45:B:ASN:HA	6	0.11
(1,3579)	1:45:A:ASN:HD22	1:45:A:ASN:HA	6	0.11
(1,3551)	1:75:A:HIS:HB3	1:75:A:HIS:H	15	0.11
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG13	5	0.11
(1,3479)	1:109:A:VAL:HG23	1:111:A:VAL:H	14	0.11
(1,3462)	1:56:B:THR:HG23	1:107:B:ALA:H	4	0.11
(1,3436)	1:57:B:LYS:HG2	1:58:B:CYS:H	11	0.11
(1,3435)	1:57:A:LYS:HG2	1:58:A:CYS:H	11	0.11
(1,3418)	1:14:B:VAL:HG11	1:15:B:CYS:H	1	0.11
(1,3418)	1:14:B:VAL:HG12	1:15:B:CYS:H	9	0.11
(1,3418)	1:14:B:VAL:HG11	1:15:B:CYS:H	15	0.11
(1,3418)	1:14:B:VAL:HG13	1:15:B:CYS:H	17	0.11
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	1	0.11
(1,3417)	1:14:A:VAL:HG12	1:15:A:CYS:H	9	0.11
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	15	0.11
(1,3417)	1:14:A:VAL:HG13	1:15:A:CYS:H	17	0.11
(1,3082)	1:21:B:TRP:HA	1:54:B:PHE:H	14	0.11
(1,3016)	1:103:B:ARG:H	1:103:B:ARG:HG3	8	0.11
(1,3015)	1:103:A:ARG:H	1:103:A:ARG:HG3	8	0.11
(1,2846)	1:113:B:SER:H	1:76:B:TRP:HE1	9	0.11
(1,2845)	1:113:A:SER:H	1:76:A:TRP:HE1	5	0.11
(1,2845)	1:113:A:SER:H	1:76:A:TRP:HE1	9	0.11
(1,2792)	1:76:B:TRP:HB3	1:76:B:TRP:H	4	0.11
(1,2791)	1:76:A:TRP:HB3	1:76:A:TRP:H	4	0.11
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	5	0.11
(1,2561)	1:50:A:ARG:HB2	1:52:A:TYR:HE1	6	0.11
(1,2441)	1:105:A:ASP:HB2	1:56:A:THR:HB	2	0.11
(1,2406)	1:34:B:LYS:HG3	1:34:B:LYS:HE3	17	0.11
(1,2405)	1:34:A:LYS:HG3	1:34:A:LYS:HE3	17	0.11
(1,2402)	1:34:B:LYS:HD2	1:34:B:LYS:HE3	12	0.11
(1,2401)	1:34:A:LYS:HD2	1:34:A:LYS:HE3	12	0.11
(1,2322)	1:18:B:VAL:HB	1:59:B:ARG:HD3	11	0.11
(1,2321)	1:18:A:VAL:HB	1:59:A:ARG:HD3	11	0.11
(1,2192)	1:42:B:VAL:HG12	1:99:B:TRP:HZ3	11	0.11
(1,2191)	1:42:A:VAL:HG12	1:99:A:TRP:HZ3	11	0.11
(1,2158)	1:18:B:VAL:HB	1:59:B:ARG:HG3	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	4	0.11
(1,2157)	1:18:A:VAL:HB	1:59:A:ARG:HG3	19	0.11
(1,2068)	1:44:B:ILE:HB	1:47:B:SER:HB2	13	0.11
(1,2067)	1:44:A:ILE:HB	1:47:A:SER:HB2	13	0.11
(1,1961)	1:115:A:LYS:HG2	1:115:A:LYS:HE2	19	0.11
(1,1864)	1:68:B:CYS:HB2	1:112:B:LEU:HD22	18	0.11
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	9	0.11
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	9	0.11
(1,1793)	1:9:A:MET:HE1	1:6:A:VAL:HB	1	0.11
(1,1756)	1:39:B:LEU:HG	1:37:B:THR:HA	6	0.11
(1,1755)	1:39:A:LEU:HG	1:37:A:THR:HA	6	0.11
(1,1694)	1:35:B:GLU:HG3	1:27:B:THR:HG22	10	0.11
(1,1693)	1:35:A:GLU:HG3	1:27:A:THR:HG22	3	0.11
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	17	0.11
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	10	0.11
(1,1621)	1:118:A:ARG:HB2	1:118:A:ARG:HG2	17	0.11
(1,1532)	1:83:B:THR:HA	1:83:B:THR:HG21	10	0.11
(1,1532)	1:83:B:THR:HA	1:83:B:THR:HG23	15	0.11
(1,1531)	1:83:A:THR:HA	1:83:A:THR:HG21	10	0.11
(1,1506)	1:69:B:ARG:HD3	1:69:B:ARG:HB2	3	0.11
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	15	0.11
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	15	0.11
(1,1448)	1:22:B:VAL:HA	1:20:B:VAL:HG13	2	0.11
(1,1447)	1:22:A:VAL:HA	1:20:A:VAL:HG13	2	0.11
(1,1424)	1:88:B:LYS:HD2	1:88:B:LYS:HB2	18	0.11
(1,1320)	1:31:B:ILE:HD12	1:101:B:PHE:HB2	12	0.11
(1,1319)	1:31:A:ILE:HD12	1:101:A:PHE:HB2	12	0.11
(1,1286)	1:87:B:VAL:HG11	1:102:B:ILE:HD13	17	0.11
(1,1285)	1:87:A:VAL:HG11	1:102:A:ILE:HD13	17	0.11
(1,1284)	1:104:B:ILE:HD11	1:102:B:ILE:HD11	2	0.11
(1,1283)	1:104:A:ILE:HD11	1:102:A:ILE:HD11	2	0.11
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG13	9	0.11
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG12	11	0.11
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG13	9	0.11
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG12	11	0.11
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG12	15	0.11
(1,1036)	1:74:B:LYS:HB3	1:74:B:LYS:HE3	15	0.11
(1,1035)	1:74:A:LYS:HB3	1:74:A:LYS:HE3	15	0.11
(1,984)	1:44:B:ILE:HB	1:44:B:ILE:HD13	14	0.11
(1,983)	1:44:A:ILE:HB	1:44:A:ILE:HD13	14	0.11
(1,976)	1:18:B:VAL:HG11	1:57:B:LYS:HE2	7	0.11
(1,975)	1:18:A:VAL:HG11	1:57:A:LYS:HE2	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,958)	1:85:B:THR:HB	1:106:B:THR:HG21	5	0.11
(1,957)	1:85:A:THR:HB	1:106:A:THR:HG21	5	0.11
(1,918)	1:22:B:VAL:HG23	1:20:B:VAL:HB	12	0.11
(1,917)	1:22:A:VAL:HG23	1:20:A:VAL:HB	12	0.11
(1,842)	1:95:B:LYS:HD2	1:95:B:LYS:HE3	14	0.11
(1,842)	1:95:B:LYS:HD2	1:95:B:LYS:HE3	17	0.11
(1,841)	1:95:A:LYS:HD2	1:95:A:LYS:HE3	14	0.11
(1,841)	1:95:A:LYS:HD2	1:95:A:LYS:HE3	17	0.11
(1,828)	1:14:B:VAL:HG13	1:110:B:CYS:HB3	6	0.11
(1,827)	1:14:A:VAL:HG13	1:110:A:CYS:HB3	6	0.11
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB1	2	0.11
(1,708)	1:116:B:ALA:HA	1:116:B:ALA:HB3	15	0.11
(1,707)	1:116:A:ALA:HA	1:116:A:ALA:HB1	2	0.11
(1,552)	1:104:B:ILE:HD12	1:104:B:ILE:HG12	12	0.11
(1,552)	1:104:B:ILE:HD13	1:104:B:ILE:HG12	13	0.11
(1,552)	1:104:B:ILE:HD13	1:104:B:ILE:HG12	16	0.11
(1,552)	1:104:B:ILE:HD13	1:104:B:ILE:HG12	18	0.11
(1,551)	1:104:A:ILE:HD12	1:104:A:ILE:HG12	7	0.11
(1,551)	1:104:A:ILE:HD13	1:104:A:ILE:HG12	13	0.11
(1,551)	1:104:A:ILE:HD13	1:104:A:ILE:HG12	16	0.11
(1,551)	1:104:A:ILE:HD13	1:104:A:ILE:HG12	18	0.11
(1,551)	1:104:A:ILE:HD12	1:104:A:ILE:HG12	19	0.11
(1,524)	1:116:B:ALA:HB3	1:117:B:THR:HA	8	0.11
(1,4640)	1:112:B:LEU:HD12	1:71:A:ILE:H	1	0.1
(1,4611)	1:71:A:ILE:HD12	1:14:B:VAL:HB	9	0.1
(1,4604)	1:12:B:PHE:HE2	1:113:A:SER:HA	8	0.1
(1,4418)	1:112:B:LEU:HD13	1:76:B:TRP:HE1	6	0.1
(1,4094)	1:47:B:SER:H	1:44:B:ILE:HD13	14	0.1
(1,4085)	1:44:A:ILE:H	1:47:A:SER:H	11	0.1
(1,3966)	1:111:B:VAL:HB	1:79:B:TYR:H	1	0.1
(1,3965)	1:111:A:VAL:HB	1:79:A:TYR:H	1	0.1
(1,3880)	1:22:B:VAL:H	1:53:B:PHE:HB3	16	0.1
(1,3821)	1:27:A:THR:HG23	1:27:A:THR:H	2	0.1
(1,3799)	1:62:A:ASN:HD21	1:79:A:TYR:HA	16	0.1
(1,3629)	1:29:A:THR:H	1:102:A:ILE:HG21	13	0.1
(1,3619)	1:84:A:HIS:HB2	1:85:A:THR:H	19	0.1
(1,3552)	1:75:B:HIS:HB3	1:75:B:HIS:H	15	0.1
(1,3484)	1:41:B:GLU:H	1:42:B:VAL:HG12	7	0.1
(1,3460)	1:107:B:ALA:HB3	1:107:B:ALA:H	2	0.1
(1,3417)	1:14:A:VAL:HG11	1:15:A:CYS:H	7	0.1
(1,3081)	1:21:A:TRP:HA	1:54:A:PHE:H	14	0.1
(1,3004)	1:62:B:ASN:HD21	1:62:B:ASN:HA	12	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2695)	1:86:A:PHE:HZ	1:103:A:ARG:HB3	1	0.1
(1,2652)	1:99:B:TRP:HD1	1:99:B:TRP:HE3	11	0.1
(1,2651)	1:99:A:TRP:HD1	1:99:A:TRP:HE3	11	0.1
(1,2562)	1:50:B:ARG:HB2	1:52:B:TYR:HE1	5	0.1
(1,2360)	1:39:B:LEU:HD12	1:98:B:ALA:H	14	0.1
(1,2359)	1:39:A:LEU:HD12	1:98:A:ALA:H	14	0.1
(1,2282)	1:44:B:ILE:HB	1:42:B:VAL:HG22	17	0.1
(1,2115)	1:36:A:VAL:HG21	1:35:A:GLU:H	4	0.1
(1,1822)	1:57:B:LYS:HE3	1:57:B:LYS:HD3	14	0.1
(1,1821)	1:57:A:LYS:HE3	1:57:A:LYS:HD3	14	0.1
(1,1794)	1:9:B:MET:HE1	1:6:B:VAL:HB	1	0.1
(1,1774)	1:63:B:PRO:HD2	1:62:B:ASN:HA	1	0.1
(1,1773)	1:63:A:PRO:HD2	1:62:A:ASN:HA	1	0.1
(1,1622)	1:118:B:ARG:HB2	1:118:B:ARG:HG2	10	0.1
(1,1494)	1:94:B:GLU:HG2	1:94:B:GLU:HB2	5	0.1
(1,1493)	1:94:A:GLU:HG2	1:94:A:GLU:HB2	5	0.1
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG12	7	0.1
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG12	12	0.1
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG12	15	0.1
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG12	17	0.1
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG11	18	0.1
(1,1260)	1:64:B:VAL:HB	1:64:B:VAL:HG13	19	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG12	1	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG12	12	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG13	13	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG11	14	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG12	17	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG11	18	0.1
(1,1259)	1:64:A:VAL:HB	1:64:A:VAL:HG13	19	0.1
(1,1200)	1:112:B:LEU:HD13	1:76:B:TRP:HZ2	4	0.1
(1,1098)	1:42:B:VAL:HA	1:90:B:LEU:HD11	17	0.1
(1,841)	1:95:A:LYS:HD2	1:95:A:LYS:HE3	9	0.1
(1,524)	1:116:B:ALA:HB1	1:117:B:THR:HA	15	0.1

10 Dihedral-angle violation analysis

No dihedral-angle restraints found