



# Full wwPDB NMR Structure Validation Report ⓘ

Jun 8, 2024 – 01:08 pm BST

PDB ID : 4B6U  
BMRB ID : 18667  
Title : Solution structure of eIF4E3 in complex with m7GDP  
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Deposited on : 2012-08-15

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

We welcome your comments at [validation@mail.wwpdb.org](mailto: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>.

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

MolProbity : 4.02b-467  
Mogul : 1.8.4, CSD as541be (2020)  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
BMRB Restraints Analysis : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36.2

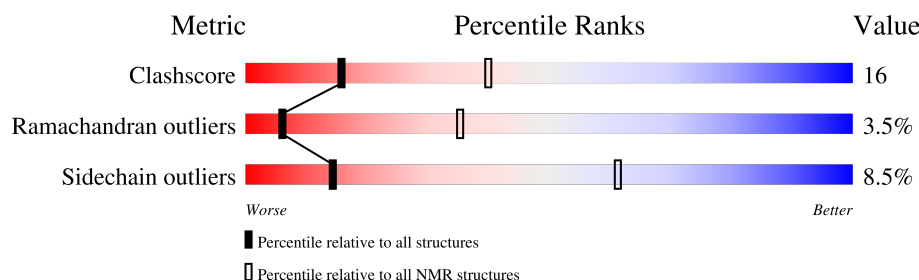
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*


The overall completeness of chemical shifts assignment is 88%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	207	

## 2 Ensemble composition and analysis

This entry contains 10 models. Model 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative.

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:30-A:200 (171)	0.68	5

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

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

The models can be grouped into 1 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

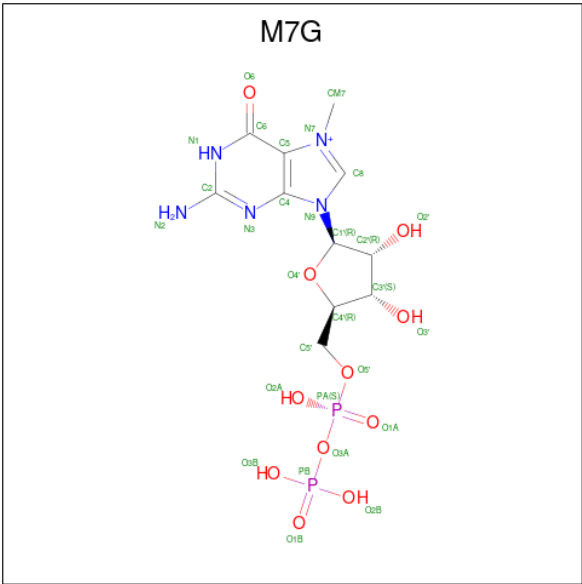
### 3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 3239 atoms, of which 1598 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called EUKARYOTIC TRANSLATION INITIATION FACTOR 4E TYPE 3.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	207	3195	1034	1583	278	294	6	0

- Molecule 2 is 7N-METHYL-8-HYDROGUANOSINE-5'-DIPHOSPHATE (three-letter code: M7G) (formula: C<sub>11</sub>H<sub>18</sub>N<sub>5</sub>O<sub>11</sub>P<sub>2</sub>).



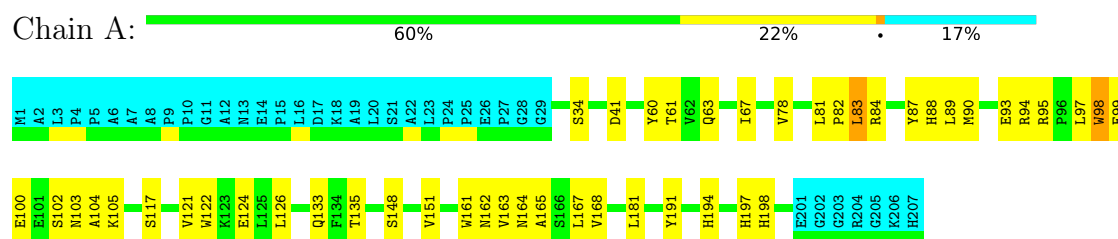
Mol	Chain	Residues	Atoms					
			Total	C	H	N	O	P
2	A	1	44	11	15	5	11	2

## 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: EUKARYOTIC TRANSLATION INITIATION FACTOR 4E TYPE 3

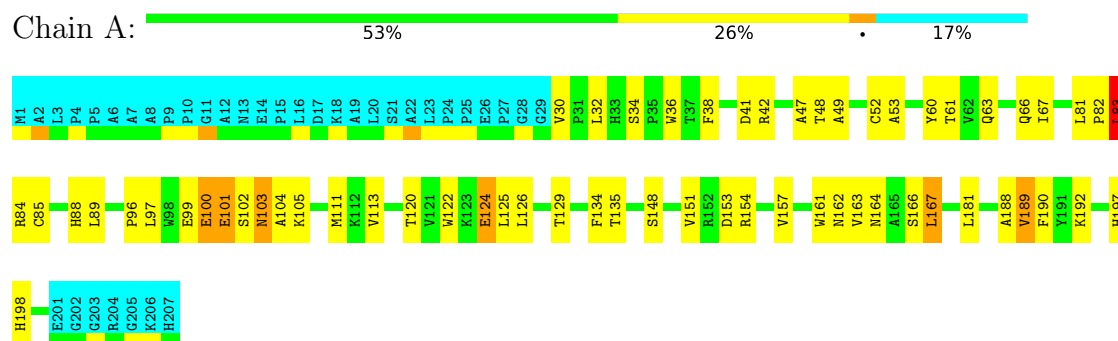


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

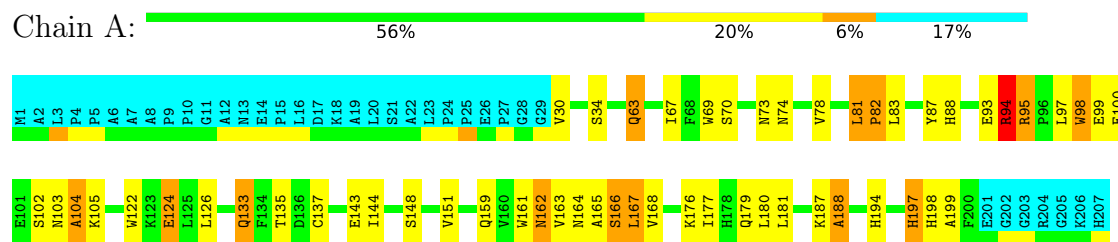
#### 4.2.1 Score per residue for model 1

- Molecule 1: EUKARYOTIC TRANSLATION INITIATION FACTOR 4E TYPE 3



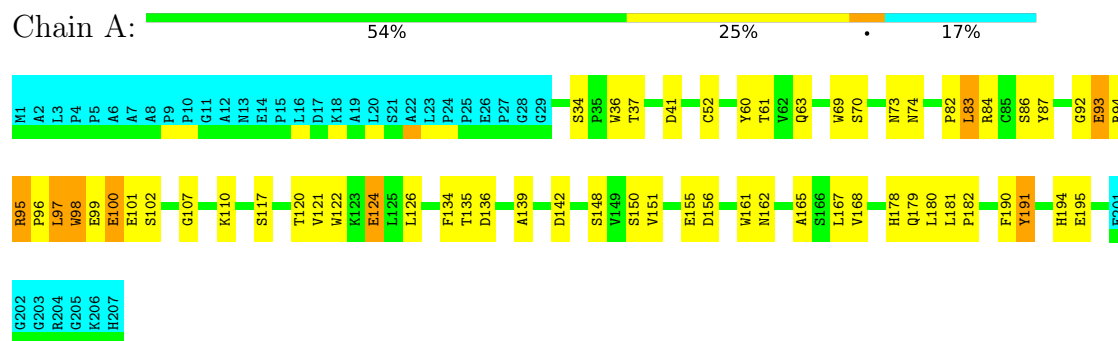
#### 4.2.2 Score per residue for model 2

- Molecule 1: EUKARYOTIC TRANSLATION INITIATION FACTOR 4E TYPE 3



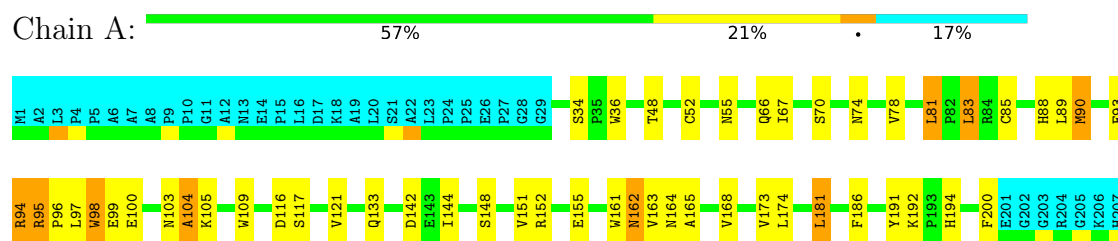
#### 4.2.3 Score per residue for model 3

- Molecule 1: EUKARYOTIC TRANSLATION INITIATION FACTOR 4E TYPE 3



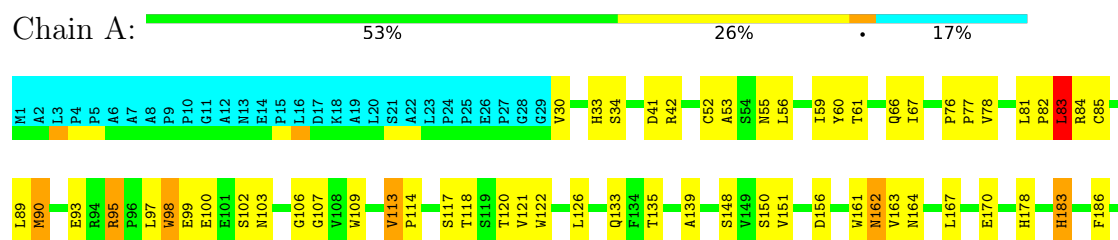
#### 4.2.4 Score per residue for model 4

- Molecule 1: EUKARYOTIC TRANSLATION INITIATION FACTOR 4E TYPE 3



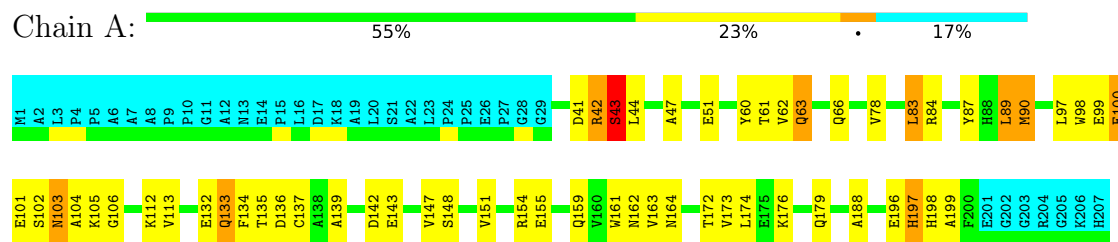
#### 4.2.5 Score per residue for model 5 (medoid)

- Molecule 1: EUKARYOTIC TRANSLATION INITIATION FACTOR 4E TYPE 3



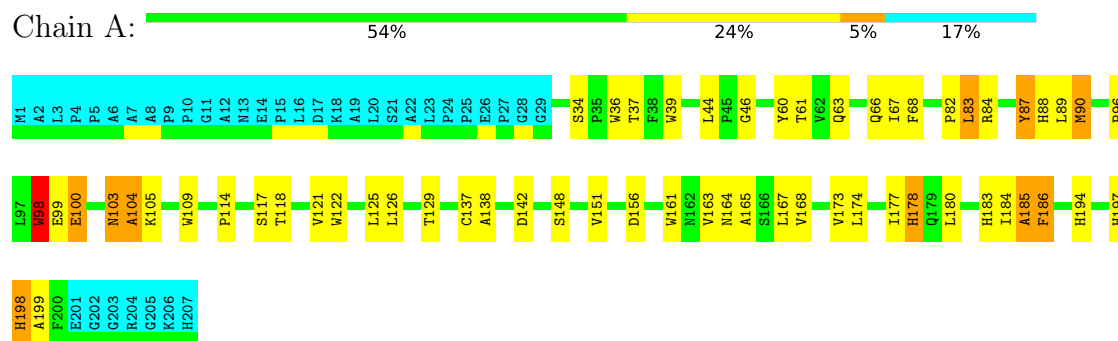


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PDB  
PROTEIN DATA BANK



#### 4.2.10 Score per residue for model 10

- Molecule 1: EUKARYOTIC TRANSLATION INITIATION FACTOR 4E TYPE 3





## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *XPLOR*.

Of the 100 calculated structures, 10 were deposited, based on the following criterion: *LEAST RESTRAINT VIOLATION*.

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

Software name	Classification	Version
Xplor-NIH	refinement	
NMRPipe	structure solution	
NMRView	structure solution	

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	2357
Number of shifts mapped to atoms	2357
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	88%

## 6 Model quality

### 6.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: M7G

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1369	1344	1351	45±4
2	A	29	15	16	1±1
All	All	13980	13590	13669	449

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 16.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:81:LEU:H	1:A:81:LEU:HD22	0.82	1.32	6	1
1:A:81:LEU:HD13	1:A:81:LEU:N	0.81	1.90	6	1
1:A:165:ALA:O	1:A:168:VAL:HG13	0.79	1.77	8	4
1:A:165:ALA:O	1:A:168:VAL:HG23	0.78	1.79	2	2
1:A:44:LEU:HD22	1:A:44:LEU:N	0.76	1.96	7	1
1:A:98:TRP:NE1	2:A:208:M7G:HM72	0.70	2.00	9	2
1:A:117:SER:O	1:A:121:VAL:HG23	0.68	1.88	10	4
1:A:167:LEU:HD22	1:A:167:LEU:N	0.67	2.05	1	1
1:A:81:LEU:HD12	1:A:81:LEU:N	0.66	2.06	5	2
1:A:63:GLN:HE21	1:A:63:GLN:N	0.64	1.91	2	2
1:A:197:HIS:ND1	1:A:198:HIS:N	0.63	2.47	6	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:41:ASP:N	1:A:88:HIS:NE2	0.63	2.45	6	2
1:A:133:GLN:NE2	1:A:176:LYS:NZ	0.62	2.47	8	2
1:A:133:GLN:HE22	1:A:176:LYS:NZ	0.62	1.93	8	1
1:A:162:ASN:OD1	1:A:165:ALA:HB2	0.61	1.95	2	1
1:A:197:HIS:CG	1:A:198:HIS:N	0.61	2.68	10	3
1:A:59:ILE:HD12	1:A:59:ILE:N	0.61	2.10	5	1
1:A:88:HIS:N	1:A:88:HIS:CD2	0.61	2.67	6	2
1:A:162:ASN:HD21	1:A:165:ALA:HB2	0.61	1.54	6	2
1:A:78:VAL:O	1:A:81:LEU:HD21	0.61	1.96	6	1
1:A:167:LEU:HD22	1:A:167:LEU:H	0.60	1.55	1	1
1:A:83:LEU:H	1:A:83:LEU:HD23	0.60	1.57	4	2
1:A:52:CYS:SG	1:A:53:ALA:N	0.59	2.76	1	2
1:A:122:TRP:NE1	1:A:126:LEU:HD11	0.59	2.13	1	7
1:A:78:VAL:O	1:A:78:VAL:HG22	0.58	1.96	6	2
1:A:151:VAL:O	1:A:151:VAL:HG23	0.58	1.97	6	2
1:A:107:GLY:O	1:A:162:ASN:ND2	0.58	2.37	5	2
1:A:98:TRP:CE2	2:A:208:M7G:HM72	0.58	2.33	9	2
1:A:44:LEU:N	1:A:44:LEU:CD2	0.58	2.67	7	1
1:A:81:LEU:N	1:A:81:LEU:CD1	0.57	2.60	6	2
1:A:132:GLU:O	1:A:135:THR:HG22	0.57	1.99	8	1
1:A:122:TRP:CE2	1:A:126:LEU:HD11	0.56	2.34	2	2
1:A:183:HIS:CE1	1:A:184:ILE:HD11	0.56	2.35	10	1
1:A:124:GLU:N	1:A:124:GLU:OE1	0.56	2.39	2	2
1:A:81:LEU:HD22	1:A:81:LEU:N	0.56	2.11	6	1
1:A:55:ASN:OD1	1:A:56:LEU:N	0.56	2.39	5	1
1:A:100:GLU:O	1:A:102:SER:N	0.56	2.37	1	4
1:A:197:HIS:O	1:A:199:ALA:N	0.56	2.39	2	2
1:A:137:CYS:SG	1:A:138:ALA:N	0.56	2.79	10	1
1:A:100:GLU:N	1:A:103:ASN:OD1	0.55	2.38	7	1
1:A:103:ASN:O	1:A:105:LYS:N	0.55	2.40	6	7
1:A:63:GLN:HE21	1:A:63:GLN:H	0.55	1.45	2	2
1:A:197:HIS:O	1:A:197:HIS:ND1	0.55	2.39	9	2
1:A:144:ILE:HD12	1:A:144:ILE:N	0.55	2.16	8	3
1:A:151:VAL:HG13	1:A:151:VAL:O	0.54	2.02	9	3
1:A:148:SER:HG	1:A:161:TRP:HE1	0.54	1.45	6	1
1:A:148:SER:OG	1:A:161:TRP:NE1	0.54	2.41	5	8
1:A:99:GLU:OE2	1:A:194:HIS:CD2	0.54	2.61	5	1
1:A:107:GLY:H	1:A:162:ASN:HD21	0.54	1.45	8	2
1:A:148:SER:CB	1:A:161:TRP:HE1	0.54	2.15	3	10
1:A:153:ASP:OD1	1:A:154:ARG:N	0.54	2.40	1	1
1:A:122:TRP:CH2	1:A:126:LEU:HD11	0.54	2.38	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:69:TRP:O	1:A:73:ASN:ND2	0.54	2.40	3	3
1:A:179:GLN:NE2	1:A:179:GLN:O	0.54	2.40	7	1
1:A:161:TRP:N	1:A:161:TRP:CD1	0.54	2.76	4	2
1:A:40:LEU:C	1:A:88:HIS:NE2	0.54	2.61	8	2
1:A:144:ILE:N	1:A:144:ILE:CD1	0.54	2.71	2	4
1:A:176:LYS:O	1:A:179:GLN:N	0.54	2.40	2	2
1:A:174:LEU:O	1:A:178:HIS:ND1	0.54	2.40	10	1
1:A:184:ILE:O	1:A:185:ALA:O	0.53	2.26	10	1
1:A:162:ASN:OD1	1:A:165:ALA:N	0.53	2.42	4	1
1:A:60:TYR:CE2	1:A:61:THR:O	0.53	2.61	1	6
1:A:99:GLU:N	1:A:99:GLU:OE1	0.53	2.42	2	2
1:A:99:GLU:OE2	1:A:194:HIS:ND1	0.53	2.42	7	2
1:A:133:GLN:NE2	1:A:137:CYS:SG	0.53	2.82	2	1
1:A:48:THR:HG22	1:A:49:ALA:N	0.52	2.18	1	1
1:A:61:THR:O	1:A:63:GLN:NE2	0.52	2.41	1	4
1:A:154:ARG:NH2	1:A:155:GLU:OE1	0.52	2.42	9	1
1:A:121:VAL:HG23	1:A:122:TRP:N	0.52	2.19	7	2
1:A:135:THR:HG23	1:A:136:ASP:N	0.52	2.20	3	2
1:A:162:ASN:ND2	1:A:165:ALA:HB2	0.52	2.20	6	2
1:A:111:MET:N	1:A:111:MET:SD	0.52	2.83	8	1
1:A:100:GLU:O	1:A:104:ALA:N	0.52	2.43	10	4
1:A:41:ASP:OD1	1:A:42:ARG:N	0.52	2.42	9	2
1:A:170:GLU:N	1:A:170:GLU:OE1	0.52	2.42	5	1
1:A:83:LEU:O	1:A:151:VAL:O	0.51	2.29	4	8
1:A:142:ASP:OD1	1:A:162:ASN:ND2	0.51	2.43	4	1
1:A:41:ASP:O	1:A:86:SER:N	0.51	2.44	8	1
1:A:190:PHE:CD2	1:A:190:PHE:N	0.51	2.77	1	3
1:A:163:VAL:HG13	1:A:164:ASN:N	0.51	2.21	5	7
1:A:82:PRO:O	1:A:84:ARG:N	0.51	2.44	5	3
1:A:167:LEU:CD2	1:A:167:LEU:N	0.51	2.73	10	1
1:A:185:ALA:O	1:A:186:PHE:CD1	0.51	2.64	10	1
1:A:107:GLY:H	1:A:162:ASN:ND2	0.51	2.04	5	2
1:A:196:GLU:O	1:A:198:HIS:N	0.51	2.43	9	1
1:A:93:GLU:O	1:A:95:ARG:N	0.50	2.44	4	2
1:A:41:ASP:OD2	1:A:88:HIS:CD2	0.50	2.65	7	1
1:A:42:ARG:O	1:A:43:SER:CB	0.50	2.59	9	1
1:A:103:ASN:C	1:A:105:LYS:N	0.50	2.65	2	7
1:A:197:HIS:CG	1:A:198:HIS:H	0.50	2.24	10	2
1:A:78:VAL:HG22	1:A:78:VAL:O	0.50	2.06	2	4
1:A:66:GLN:H	1:A:66:GLN:CD	0.49	2.11	1	1
1:A:195:GLU:N	1:A:195:GLU:OE1	0.49	2.46	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:SER:C	1:A:81:LEU:HD13	0.49	2.27	6	1
1:A:197:HIS:CE1	1:A:199:ALA:H	0.49	2.25	10	1
1:A:100:GLU:C	1:A:102:SER:N	0.49	2.66	9	4
1:A:36:TRP:CH2	1:A:91:ARG:NH1	0.49	2.81	6	1
1:A:99:GLU:CD	1:A:194:HIS:CE1	0.49	2.86	2	1
1:A:89:LEU:C	1:A:90:MET:SD	0.49	2.92	9	4
1:A:98:TRP:CD1	2:A:208:M7G:HM72	0.49	2.43	3	1
1:A:102:SER:OG	1:A:103:ASN:ND2	0.48	2.47	5	1
1:A:197:HIS:O	1:A:197:HIS:CG	0.48	2.66	9	2
1:A:41:ASP:CG	1:A:88:HIS:NE2	0.48	2.67	6	1
1:A:67:ILE:CD1	1:A:67:ILE:N	0.48	2.76	1	6
1:A:44:LEU:HD12	1:A:44:LEU:N	0.48	2.24	9	1
1:A:180:LEU:HD22	1:A:180:LEU:N	0.48	2.23	10	3
1:A:195:GLU:N	1:A:195:GLU:CD	0.48	2.67	5	1
1:A:103:ASN:C	1:A:105:LYS:H	0.48	2.12	10	5
1:A:99:GLU:OE1	1:A:194:HIS:ND1	0.48	2.47	3	1
1:A:133:GLN:OE1	1:A:134:PHE:CG	0.48	2.67	9	1
1:A:196:GLU:C	1:A:198:HIS:N	0.48	2.67	9	1
1:A:87:TYR:C	1:A:88:HIS:CD2	0.48	2.88	2	2
1:A:63:GLN:N	1:A:63:GLN:NE2	0.47	2.61	2	1
1:A:84:ARG:O	1:A:85:CYS:SG	0.47	2.70	6	2
1:A:121:VAL:CG2	1:A:122:TRP:N	0.47	2.76	5	2
1:A:191:TYR:O	1:A:191:TYR:CD2	0.47	2.67	3	2
1:A:98:TRP:CZ3	1:A:194:HIS:NE2	0.47	2.76	4	1
1:A:34:SER:O	1:A:36:TRP:CD1	0.47	2.68	4	4
1:A:82:PRO:C	1:A:84:ARG:N	0.47	2.68	1	4
1:A:187:LYS:O	1:A:188:ALA:HB3	0.47	2.10	8	1
1:A:151:VAL:O	1:A:151:VAL:CG1	0.47	2.62	9	1
1:A:67:ILE:N	1:A:67:ILE:HD12	0.47	2.24	4	4
1:A:188:ALA:O	1:A:189:VAL:O	0.47	2.32	1	1
1:A:78:VAL:O	1:A:78:VAL:CG2	0.47	2.61	6	1
1:A:96:PRO:O	1:A:98:TRP:N	0.47	2.48	4	2
1:A:81:LEU:H	1:A:81:LEU:CD2	0.47	2.07	6	1
1:A:30:VAL:HG13	1:A:30:VAL:O	0.47	2.08	1	2
1:A:103:ASN:N	1:A:103:ASN:ND2	0.47	2.62	9	1
1:A:143:GLU:H	1:A:163:VAL:HG12	0.47	1.68	2	2
1:A:161:TRP:CD1	1:A:161:TRP:N	0.47	2.82	2	5
1:A:137:CYS:SG	1:A:173:VAL:HG22	0.47	2.50	10	1
1:A:90:MET:SD	1:A:95:ARG:NH2	0.46	2.87	5	2
1:A:167:LEU:N	1:A:167:LEU:HD22	0.46	2.25	10	1
1:A:110:LYS:NZ	1:A:159:GLN:OE1	0.46	2.40	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:63:GLN:N	1:A:63:GLN:CD	0.46	2.68	1	1
1:A:34:SER:CB	1:A:91:ARG:NH2	0.46	2.79	6	1
1:A:185:ALA:O	1:A:186:PHE:CB	0.46	2.63	10	1
1:A:143:GLU:OE1	1:A:144:ILE:N	0.46	2.49	8	1
1:A:99:GLU:O	1:A:100:GLU:O	0.46	2.32	1	4
1:A:106:GLY:O	1:A:194:HIS:ND1	0.46	2.49	5	1
1:A:131:GLY:O	1:A:133:GLN:N	0.46	2.48	8	1
1:A:81:LEU:HD13	1:A:85:CYS:SG	0.46	2.51	1	1
1:A:52:CYS:SG	2:A:208:M7G:C6	0.46	3.04	3	1
1:A:69:TRP:CZ2	1:A:127:LEU:HD21	0.46	2.46	7	1
1:A:66:GLN:N	1:A:66:GLN:OE1	0.46	2.49	10	1
1:A:66:GLN:CD	1:A:66:GLN:N	0.46	2.69	5	2
1:A:41:ASP:OD1	1:A:86:SER:OG	0.46	2.34	3	1
1:A:52:CYS:O	1:A:55:ASN:OD1	0.45	2.34	4	2
1:A:143:GLU:O	1:A:162:ASN:OD1	0.45	2.33	9	1
1:A:107:GLY:O	1:A:162:ASN:OD1	0.45	2.34	6	2
1:A:121:VAL:HG22	1:A:181:LEU:HD13	0.45	1.88	4	1
1:A:167:LEU:HD12	1:A:167:LEU:N	0.45	2.27	5	2
1:A:120:THR:O	1:A:124:GLU:OE1	0.45	2.35	3	1
1:A:89:LEU:C	1:A:89:LEU:HD23	0.45	2.32	7	1
1:A:118:THR:OG1	1:A:156:ASP:OD2	0.45	2.35	7	2
1:A:183:HIS:CD2	1:A:183:HIS:H	0.45	2.28	5	1
1:A:197:HIS:NE2	1:A:199:ALA:O	0.45	2.46	10	1
1:A:82:PRO:C	1:A:84:ARG:H	0.45	2.15	3	2
1:A:163:VAL:CG1	1:A:164:ASN:N	0.45	2.79	1	3
1:A:162:ASN:HD22	1:A:162:ASN:H	0.45	1.55	5	1
1:A:99:GLU:OE1	1:A:104:ALA:O	0.45	2.35	7	1
1:A:133:GLN:O	1:A:136:ASP:OD1	0.45	2.35	8	1
1:A:95:ARG:O	1:A:97:LEU:N	0.45	2.49	3	1
1:A:99:GLU:OE1	1:A:103:ASN:OD1	0.45	2.35	4	1
1:A:173:VAL:HG12	1:A:177:ILE:HD11	0.45	1.87	10	1
1:A:38:PHE:CE1	1:A:89:LEU:CD1	0.45	3.00	1	2
1:A:120:THR:O	1:A:124:GLU:OE2	0.45	2.35	1	1
1:A:59:ILE:N	1:A:59:ILE:CD1	0.44	2.79	5	1
1:A:60:TYR:CD2	1:A:61:THR:O	0.44	2.71	5	1
1:A:147:VAL:HG12	1:A:160:VAL:HG13	0.44	1.89	6	1
1:A:88:HIS:CE1	1:A:148:SER:OG	0.44	2.70	1	1
1:A:99:GLU:CD	1:A:194:HIS:ND1	0.44	2.71	2	1
1:A:55:ASN:OD1	1:A:55:ASN:C	0.44	2.56	4	1
1:A:109:TRP:CZ3	1:A:162:ASN:OD1	0.44	2.71	7	1
1:A:99:GLU:OE2	1:A:194:HIS:CE1	0.44	2.70	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:144:ILE:N	1:A:144:ILE:HD12	0.44	2.26	4	1
1:A:143:GLU:OE1	1:A:144:ILE:O	0.44	2.36	8	1
1:A:81:LEU:O	1:A:82:PRO:O	0.44	2.36	2	2
1:A:40:LEU:HD13	1:A:87:TYR:CE2	0.44	2.47	6	1
1:A:167:LEU:N	1:A:167:LEU:CD2	0.44	2.75	1	1
1:A:113:VAL:HG13	1:A:186:PHE:CE1	0.44	2.48	5	1
1:A:109:TRP:CE3	1:A:162:ASN:OD1	0.44	2.71	7	1
1:A:178:HIS:O	1:A:182:PRO:N	0.44	2.50	3	1
1:A:151:VAL:O	1:A:151:VAL:CG2	0.44	2.64	6	2
1:A:133:GLN:HE22	1:A:176:LYS:HZ2	0.44	1.56	8	1
1:A:70:SER:O	1:A:74:ASN:ND2	0.44	2.51	2	1
1:A:70:SER:O	1:A:74:ASN:CG	0.44	2.56	3	3
1:A:117:SER:O	1:A:120:THR:N	0.44	2.50	8	2
1:A:116:ASP:OD1	1:A:116:ASP:O	0.43	2.36	4	1
1:A:178:HIS:O	1:A:178:HIS:ND1	0.43	2.51	5	1
1:A:196:GLU:O	1:A:197:HIS:O	0.43	2.36	7	1
1:A:47:ALA:CB	1:A:51:GLU:OE1	0.43	2.66	9	1
1:A:68:PHE:CD2	1:A:68:PHE:C	0.43	2.91	10	1
1:A:41:ASP:CG	1:A:42:ARG:H	0.43	2.16	9	2
1:A:39:TRP:O	1:A:88:HIS:O	0.43	2.37	7	1
1:A:165:ALA:O	1:A:167:LEU:N	0.43	2.51	2	1
1:A:137:CYS:SG	1:A:172:THR:O	0.43	2.76	9	1
1:A:98:TRP:O	1:A:99:GLU:C	0.43	2.56	10	1
1:A:155:GLU:CG	1:A:156:ASP:N	0.43	2.80	3	1
1:A:94:ARG:N	1:A:94:ARG:CD	0.43	2.81	4	1
1:A:99:GLU:N	1:A:99:GLU:CD	0.43	2.72	10	1
1:A:165:ALA:C	1:A:167:LEU:N	0.43	2.70	2	2
1:A:60:TYR:CG	1:A:61:THR:N	0.43	2.86	9	2
1:A:187:LYS:O	1:A:188:ALA:O	0.43	2.37	2	1
1:A:66:GLN:NE2	1:A:66:GLN:N	0.43	2.66	9	1
1:A:152:ARG:O	1:A:155:GLU:O	0.43	2.36	4	1
1:A:197:HIS:CD2	1:A:198:HIS:H	0.43	2.32	8	2
1:A:135:THR:CG2	1:A:136:ASP:N	0.43	2.81	9	2
1:A:99:GLU:OE2	1:A:106:GLY:O	0.43	2.36	7	1
1:A:197:HIS:ND1	1:A:197:HIS:C	0.43	2.72	7	1
1:A:48:THR:CG2	1:A:49:ALA:N	0.42	2.82	1	1
1:A:92:GLY:O	1:A:93:GLU:O	0.42	2.36	3	1
1:A:173:VAL:HG23	1:A:174:LEU:N	0.42	2.29	9	2
1:A:81:LEU:N	1:A:81:LEU:CD2	0.42	2.75	6	1
1:A:95:ARG:O	1:A:95:ARG:CG	0.42	2.66	8	1
1:A:178:HIS:ND1	1:A:178:HIS:N	0.42	2.66	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:131:GLY:C	1:A:133:GLN:N	0.42	2.73	8	1
1:A:165:ALA:HB1	1:A:168:VAL:CG2	0.42	2.45	2	1
1:A:37:THR:CG2	1:A:39:TRP:NE1	0.42	2.83	10	1
1:A:111:MET:O	1:A:157:VAL:HG23	0.42	2.15	1	1
1:A:83:LEU:O	1:A:85:CYS:N	0.42	2.50	4	1
1:A:33:HIS:CE1	1:A:34:SER:HG	0.42	2.32	5	1
1:A:125:LEU:O	1:A:129:THR:OG1	0.42	2.30	1	2
1:A:114:PRO:O	1:A:118:THR:OG1	0.42	2.37	5	2
1:A:62:VAL:CA	1:A:63:GLN:HE21	0.42	2.27	9	1
1:A:142:ASP:OD1	1:A:164:ASN:O	0.42	2.37	9	2
1:A:30:VAL:H	1:A:66:GLN:NE2	0.41	2.12	5	1
1:A:180:LEU:N	1:A:180:LEU:CD1	0.41	2.83	2	1
1:A:198:HIS:ND1	1:A:199:ALA:N	0.41	2.68	8	1
1:A:132:GLU:OE1	1:A:132:GLU:N	0.41	2.53	9	1
1:A:180:LEU:N	1:A:180:LEU:CD2	0.41	2.83	10	1
1:A:89:LEU:HD23	1:A:90:MET:N	0.41	2.30	7	1
1:A:94:ARG:CG	1:A:94:ARG:O	0.41	2.68	2	1
1:A:168:VAL:HG11	1:A:191:TYR:CG	0.41	2.50	4	1
1:A:107:GLY:N	1:A:162:ASN:HD21	0.41	2.14	5	1
1:A:109:TRP:CZ2	1:A:168:VAL:HG12	0.41	2.50	6	1
1:A:48:THR:O	1:A:52:CYS:SG	0.41	2.79	4	1
1:A:115:LYS:HB2	1:A:115:LYS:HZ2	0.41	1.75	6	1
1:A:97:LEU:O	1:A:98:TRP:C	0.41	2.59	7	1
1:A:120:THR:HG22	1:A:181:LEU:CD2	0.41	2.46	8	1
1:A:99:GLU:OE1	1:A:106:GLY:O	0.41	2.39	9	1
1:A:139:ALA:O	1:A:142:ASP:O	0.41	2.39	3	1
1:A:90:MET:SD	1:A:90:MET:N	0.41	2.94	10	1
1:A:173:VAL:CG2	1:A:174:LEU:N	0.41	2.83	9	1
1:A:67:ILE:N	1:A:67:ILE:CD1	0.41	2.84	10	1
1:A:188:ALA:O	1:A:189:VAL:C	0.41	2.58	1	1
1:A:176:LYS:O	1:A:177:ILE:C	0.41	2.59	2	1
1:A:162:ASN:OD1	1:A:164:ASN:N	0.41	2.54	4	1
1:A:40:LEU:HD12	1:A:86:SER:O	0.41	2.15	6	1
1:A:117:SER:O	1:A:121:VAL:CG2	0.41	2.67	6	1
1:A:62:VAL:C	1:A:63:GLN:HE21	0.41	2.20	9	1
1:A:66:GLN:NE2	1:A:66:GLN:H	0.41	2.14	9	1
1:A:133:GLN:O	1:A:136:ASP:CG	0.40	2.59	8	1
1:A:42:ARG:NH1	1:A:84:ARG:HH11	0.40	2.14	9	1
1:A:77:PRO:O	1:A:81:LEU:CD1	0.40	2.70	5	1
1:A:181:LEU:N	1:A:182:PRO:CD	0.40	2.84	7	1
1:A:41:ASP:OD1	1:A:42:ARG:O	0.40	2.39	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:HIS:ND1	1:A:148:SER:OG	0.40	2.42	4	1
1:A:115:LYS:CB	1:A:115:LYS:NZ	0.40	2.85	6	1
1:A:41:ASP:OD1	1:A:88:HIS:CD2	0.40	2.74	7	1
1:A:95:ARG:O	1:A:95:ARG:CD	0.40	2.69	8	1
1:A:162:ASN:OD1	1:A:164:ASN:C	0.40	2.60	4	1
1:A:131:GLY:O	1:A:132:GLU:CB	0.40	2.69	6	1
1:A:128:ALA:HB1	1:A:133:GLN:CG	0.40	2.46	8	1

## 6.3 Torsion angles

### 6.3.1 Protein backbone

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	171/207 (83%)	153±3 (90±2%)	12±2 (7±1%)	6±1 (4±1%)	6	35
All	All	1710/2070 (83%)	1534 (90%)	116 (7%)	60 (4%)	6	35

All 23 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	100	GLU	7
1	A	104	ALA	7
1	A	94	ARG	4
1	A	98	TRP	4
1	A	83	LEU	3
1	A	96	PRO	3
1	A	101	GLU	3
1	A	82	PRO	3
1	A	198	HIS	3
1	A	139	ALA	3
1	A	189	VAL	2
1	A	188	ALA	2
1	A	93	GLU	2
1	A	97	LEU	2
1	A	186	PHE	2

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Mol	Chain	Res	Type	Models (Total)
1	A	46	GLY	2
1	A	197	HIS	2
1	A	47	ALA	1
1	A	166	SER	1
1	A	76	PRO	1
1	A	132	GLU	1
1	A	43	SER	1
1	A	185	ALA	1

### 6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	150/173 (87%)	137±2 (92±1%)	13±2 (8±1%)	14	61
All	All	1500/1730 (87%)	1373 (92%)	127 (8%)	14	61

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

Mol	Chain	Res	Type	Models (Total)
1	A	83	LEU	10
1	A	97	LEU	7
1	A	98	TRP	7
1	A	162	ASN	6
1	A	181	LEU	6
1	A	95	ARG	6
1	A	133	GLN	6
1	A	87	TYR	5
1	A	113	VAL	4
1	A	135	THR	4
1	A	63	GLN	4
1	A	90	MET	4
1	A	103	ASN	3
1	A	124	GLU	3
1	A	167	LEU	3
1	A	81	LEU	3
1	A	191	TYR	3

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Mol	Chain	Res	Type	Models (Total)
1	A	109	TRP	3
1	A	134	PHE	2
1	A	166	SER	2
1	A	192	LYS	2
1	A	34	SER	2
1	A	159	GLN	2
1	A	197	HIS	2
1	A	37	THR	2
1	A	150	SER	2
1	A	88	HIS	2
1	A	137	CYS	2
1	A	32	LEU	1
1	A	94	ARG	1
1	A	110	LYS	1
1	A	179	GLN	1
1	A	66	GLN	1
1	A	93	GLU	1
1	A	183	HIS	1
1	A	71	VAL	1
1	A	115	LYS	1
1	A	33	HIS	1
1	A	129	THR	1
1	A	42	ARG	1
1	A	43	SER	1
1	A	89	LEU	1
1	A	112	LYS	1
1	A	147	VAL	1
1	A	44	LEU	1
1	A	156	ASP	1
1	A	178	HIS	1
1	A	194	HIS	1

### 6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

## 6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.6 Ligand geometry [i](#)

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	M7G	A	208	-	26,31,31	1.38±0.07	4±1 (13±2%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	M7G	A	208	-	28,49,49	0.86±0.08	0±0 (1±1%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	M7G	A	208	-	-	0±0,12,32,32	0±0,3,3,3

All unique bond 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(Å)	Ideal(Å)	Models	
								Worst	Total
2	A	208	M7G	O3'-C3'	3.70	1.34	1.43	7	2
2	A	208	M7G	O4'-C1'	3.21	1.45	1.41	9	10
2	A	208	M7G	C8-N7	3.10	1.38	1.33	8	10
2	A	208	M7G	PB-O2B	2.93	1.43	1.54	4	2
2	A	208	M7G	PB-O1B	2.89	1.41	1.50	3	1
2	A	208	M7G	PA-O1A	2.53	1.41	1.50	7	1
2	A	208	M7G	C8-N9	2.43	1.37	1.33	2	10

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

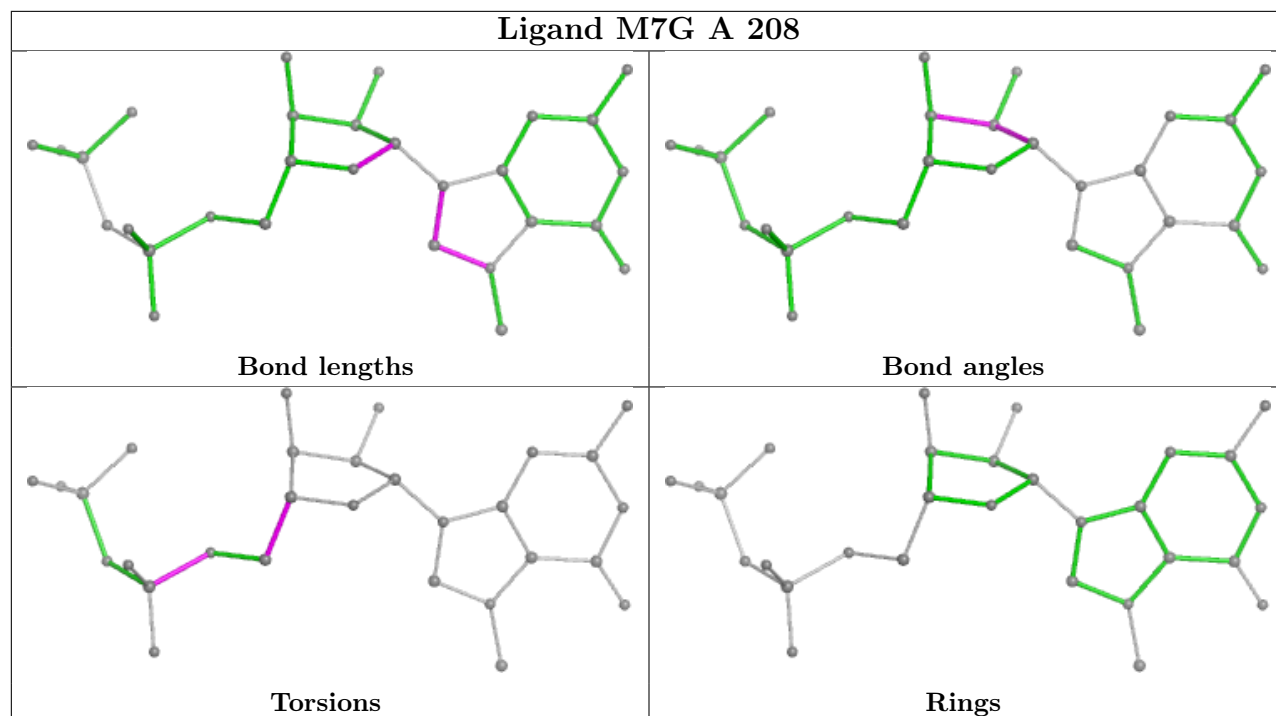
Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	A	208	M7G	O2B-PB-O3A	2.92	114.41	104.64	4	1
2	A	208	M7G	O5'-PA-O1A	2.70	119.63	109.07	7	1
2	A	208	M7G	C3'-C2'-C1'	2.02	104.02	100.98	9	3

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



## 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 88% for the well-defined parts and 85% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *MIKE\_3.csh*

#### 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	2357
Number of shifts mapped to atoms	2357
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	5

#### 7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	200	$-0.04 \pm 0.10$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}_\beta$	186	$0.10 \pm 0.10$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}'$	171	$-0.99 \pm 0.13$	Should be applied
$^{15}\text{N}$	184	$0.38 \pm 0.43$	None needed ( $< 0.5$ ppm)

#### 7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 88%, i.e. 2079 atoms were assigned a chemical shift out of a possible 2353. 0 out of 33 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	817/842 (97%)	336/339 (99%)	322/342 (94%)	159/161 (99%)
Sidechain	1076/1289 (83%)	734/844 (87%)	331/403 (82%)	11/42 (26%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	186/222 (84%)	93/116 (80%)	86/99 (87%)	7/7 (100%)
Overall	2079/2353 (88%)	1163/1299 (90%)	739/844 (88%)	177/210 (84%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 85%, i.e. 2357 atoms were assigned a chemical shift out of a possible 2773. 0 out of 37 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	952/1012 (94%)	397/409 (97%)	371/414 (90%)	184/189 (97%)
Sidechain	1219/1533 (80%)	833/1005 (83%)	374/480 (78%)	12/48 (25%)
Aromatic	186/228 (82%)	93/120 (78%)	86/101 (85%)	7/7 (100%)
Overall	2357/2773 (85%)	1323/1534 (86%)	831/995 (84%)	203/244 (83%)

#### 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.

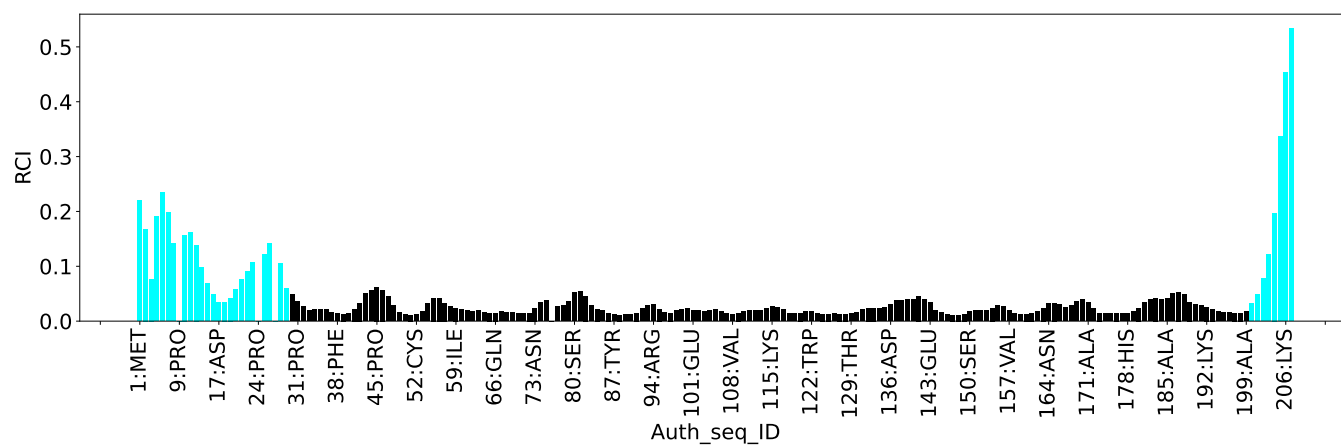
List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	199	ALA	H	-0.91	5.31 – 11.08	-15.8
1	A	162	ASN	HD22	10.58	4.69 – 9.61	7.0
1	A	162	ASN	HD21	10.58	4.94 – 9.72	6.8
1	A	58	LYS	HG3	-0.13	0.04 – 2.67	-5.7
1	A	107	GLY	HA2	1.98	2.15 – 5.77	-5.5

#### 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	3937
Intra-residue ( $ i-j =0$ )	764
Sequential ( $ i-j =1$ )	933
Medium range ( $ i-j >1$ and $ i-j <5$ )	694
Long range ( $ i-j \geq 5$ )	1399
Inter-chain	39
Hydrogen bond restraints	108
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	2
Number of restraints per residue	18.9
Number of long range restraints per residue <sup>1</sup>	7.0

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

### 8.2 Residual restraint violations

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

#### 8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	50.3	0.2
0.2-0.5 (Medium)	19.9	0.49
>0.5 (Large)	1.0	0.98

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

Dihedral-angle violations less than  $1^\circ$  are not included in the calculation. There are no dihedral-angle violations

## 9 Distance violation analysis ⓘ

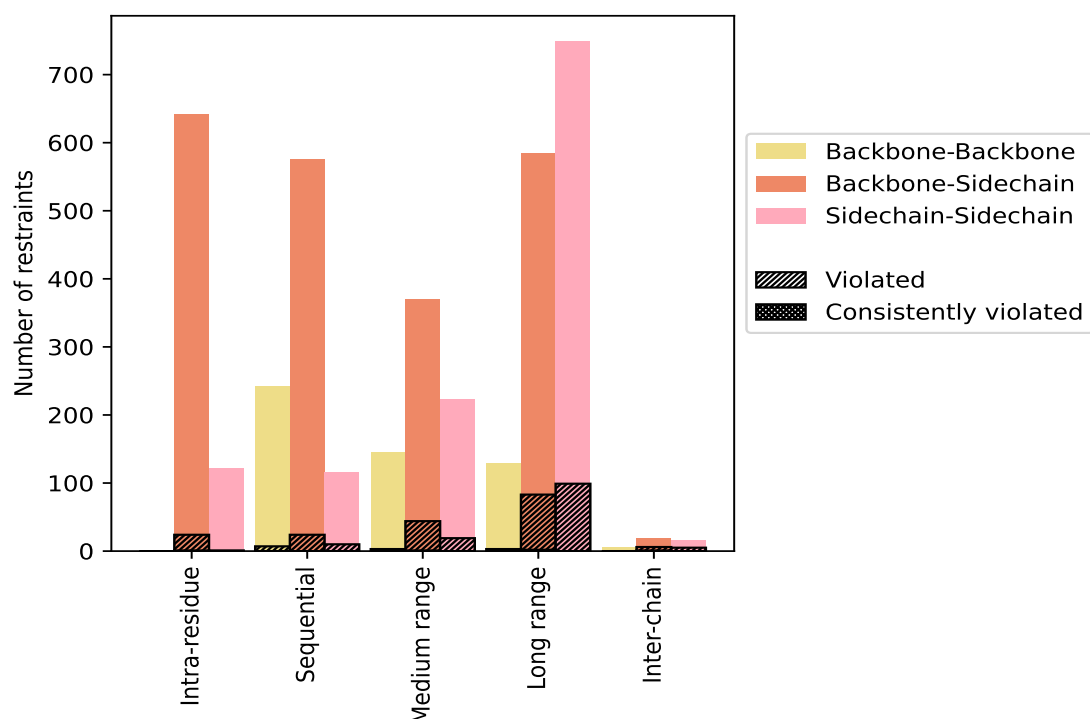
### 9.1 Summary of distance violations ⓘ

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	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>764</b>	<b>19.4</b>	<b>25</b>	<b>3.3</b>	<b>0.6</b>	<b>1</b>	<b>0.1</b>	<b>0.0</b>
Backbone-Backbone	1	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	641	16.3	24	3.7	0.6	1	0.2	0.0
Sidechain-Sidechain	122	3.1	1	0.8	0.0	0	0.0	0.0
<b>Sequential (<math> i-j =1</math>)</b>	<b>933</b>	<b>23.7</b>	<b>41</b>	<b>4.4</b>	<b>1.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	242	6.1	7	2.9	0.2	0	0.0	0.0
Backbone-Sidechain	575	14.6	24	4.2	0.6	0	0.0	0.0
Sidechain-Sidechain	116	2.9	10	8.6	0.3	0	0.0	0.0
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>694</b>	<b>17.6</b>	<b>49</b>	<b>7.1</b>	<b>1.2</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	145	3.7	3	2.1	0.1	0	0.0	0.0
Backbone-Sidechain	326	8.3	27	8.3	0.7	0	0.0	0.0
Sidechain-Sidechain	223	5.7	19	8.5	0.5	0	0.0	0.0
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>1399</b>	<b>35.5</b>	<b>154</b>	<b>11.0</b>	<b>3.9</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	129	3.3	3	2.3	0.1	0	0.0	0.0
Backbone-Sidechain	521	13.2	52	10.0	1.3	0	0.0	0.0
Sidechain-Sidechain	749	19.0	99	13.2	2.5	0	0.0	0.0
<b>Inter-chain</b>	<b>39</b>	<b>1.0</b>	<b>11</b>	<b>28.2</b>	<b>0.3</b>	<b>1</b>	<b>2.6</b>	<b>0.0</b>
Backbone-Backbone	5	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	18	0.5	6	33.3	0.2	1	5.6	0.0
Sidechain-Sidechain	16	0.4	5	31.2	0.1	0	0.0	0.0
<b>Hydrogen bond</b>	<b>108</b>	<b>2.7</b>	<b>48</b>	<b>44.4</b>	<b>1.2</b>	<b>3</b>	<b>2.8</b>	<b>0.1</b>
<b>Disulfide bond</b>	<b>0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total</b>	<b>3937</b>	<b>100.0</b>	<b>328</b>	<b>8.3</b>	<b>8.3</b>	<b>5</b>	<b>0.1</b>	<b>0.1</b>
Backbone-Backbone	522	13.3	13	2.5	0.3	0	0.0	0.0
Backbone-Sidechain	2189	55.6	181	8.3	4.6	5	0.2	0.1
Sidechain-Sidechain	1226	31.1	134	10.9	3.4	0	0.0	0.0

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

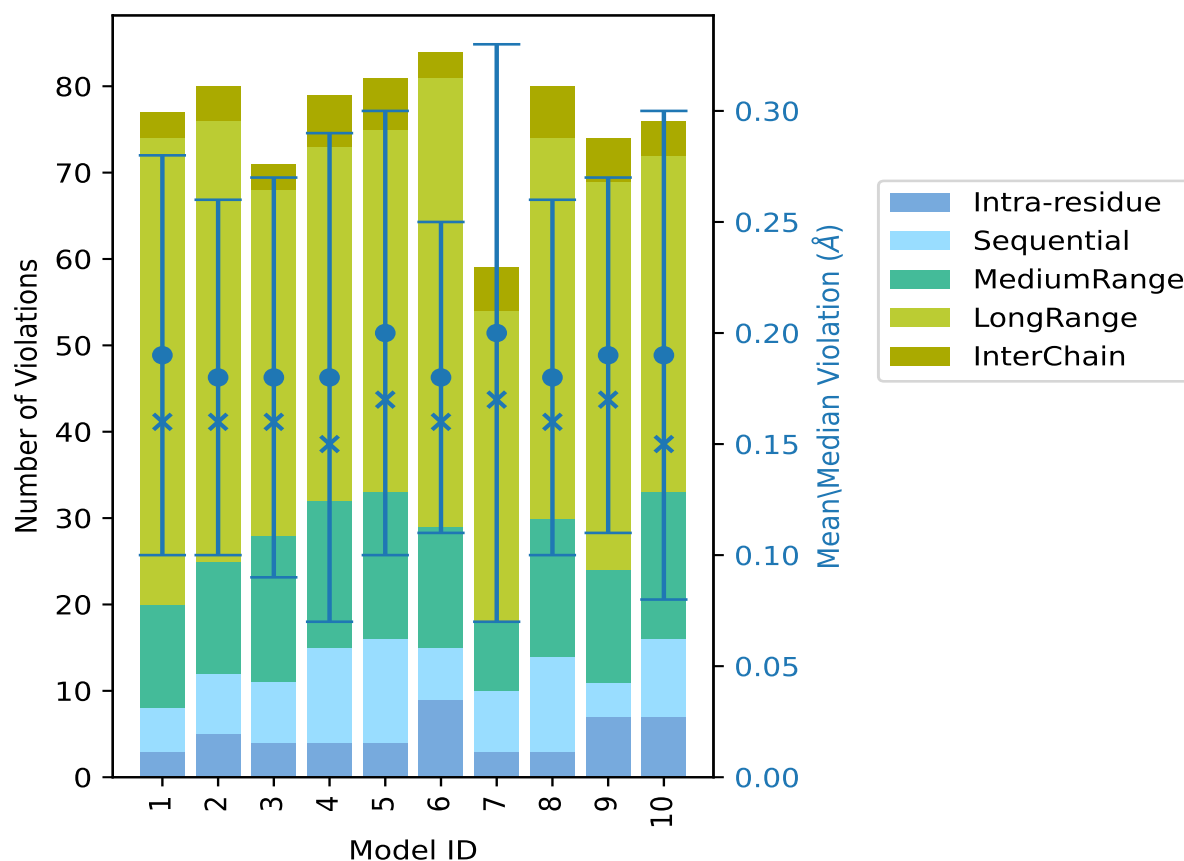
## 9.2 Distance violation statistics for each model [i](#)

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 <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	3	5	12	54	3	77	0.19	0.65	0.09	0.16
2	5	7	13	51	4	80	0.18	0.52	0.08	0.16
3	4	7	17	40	3	71	0.18	0.65	0.09	0.16
4	4	11	17	41	6	79	0.18	0.79	0.11	0.15
5	4	12	17	42	6	81	0.2	0.55	0.1	0.17
6	9	6	14	52	3	84	0.18	0.44	0.07	0.16
7	3	7	8	36	5	59	0.2	0.98	0.13	0.17
8	3	11	16	44	6	80	0.18	0.45	0.08	0.16
9	7	4	13	45	5	74	0.19	0.46	0.08	0.17
10	7	9	17	39	4	76	0.19	0.71	0.11	0.15

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints, <sup>5</sup>Inter-chain restraints, <sup>6</sup>Standard deviation

### 9.2.1 Bar graph : Distance Violation statistics for each model [i](#)



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

### 9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 3549(IR:739, SQ:892, MR:645, LR:1245, IC:28) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
14	24	27	93	3	161	1	10.0
6	9	11	24	1	51	2	20.0
3	3	5	17	1	29	3	30.0

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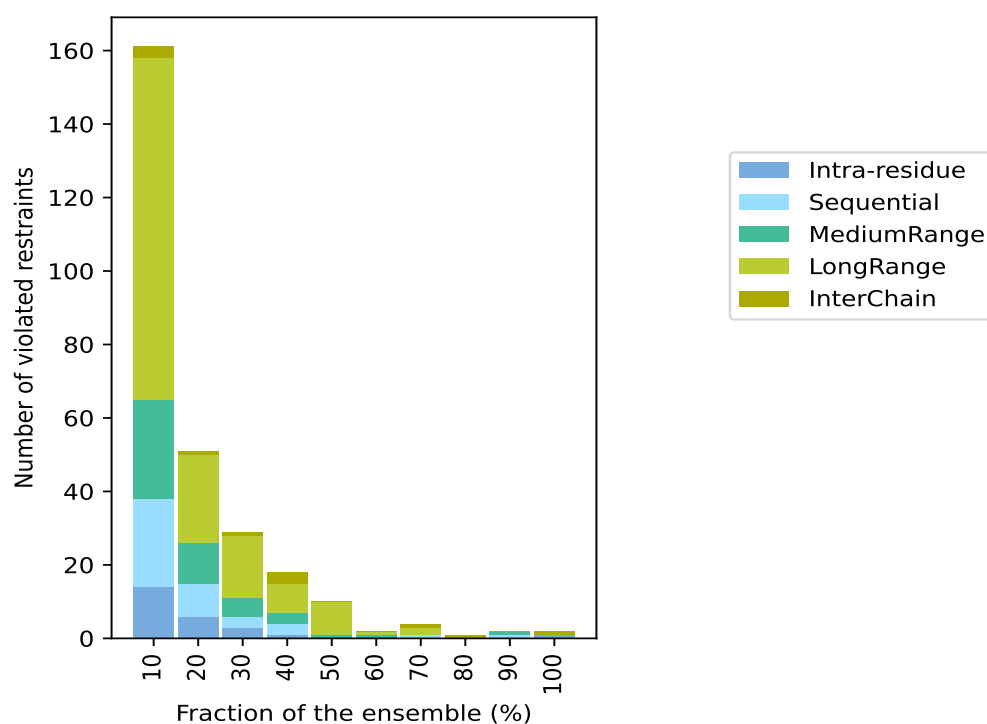
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Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
1	3	3	8	3	18	4	40.0
0	0	1	9	0	10	5	50.0
0	0	1	1	0	2	6	60.0
0	1	0	2	1	4	7	70.0
0	0	0	0	1	1	8	80.0
0	1	1	0	0	2	9	90.0
1	0	0	0	1	2	10	100.0

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints,

<sup>5</sup>Inter-chain restraints, <sup>6</sup> Number of models with violations

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

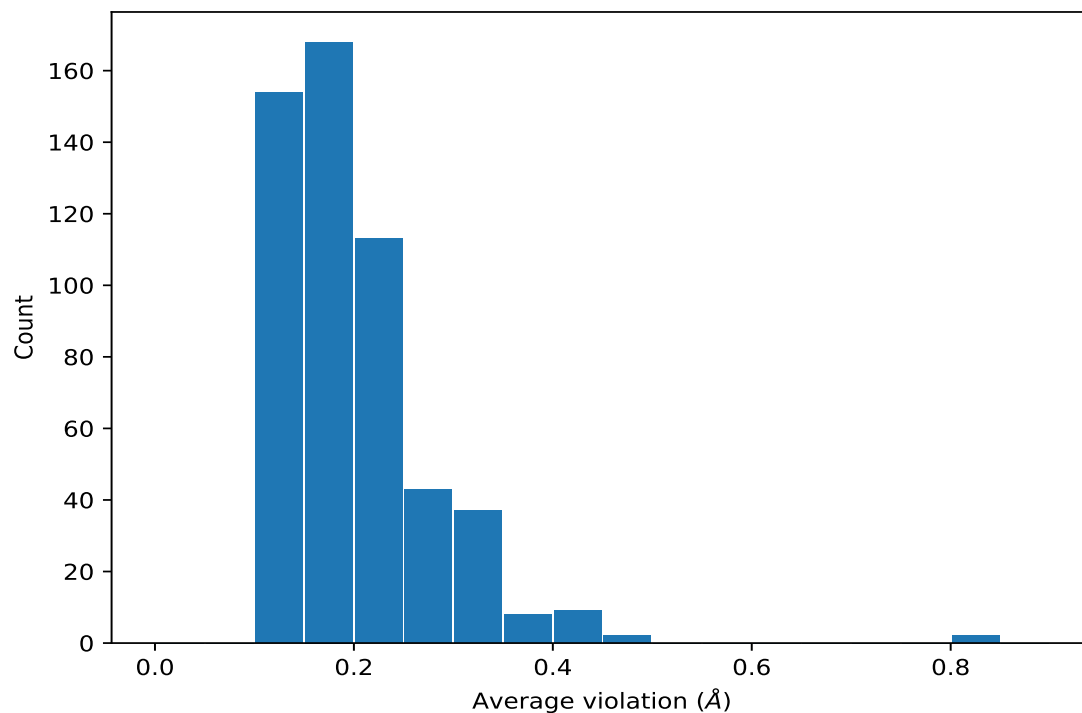


## 9.4 Most violated distance restraints in the ensemble [i](#)

### 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 <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	10	0.4	0.06	0.4
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	10	0.4	0.06	0.4
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	10	0.4	0.17	0.39
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	10	0.3	0.02	0.3
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	10	0.25	0.03	0.26
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	10	0.21	0.06	0.22
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	9	0.21	0.04	0.22
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	9	0.18	0.04	0.19
(2,37)	1:37:A:THR:O	1:90:A:MET:H	9	0.17	0.02	0.17
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	9	0.15	0.03	0.15
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	9	0.15	0.01	0.15
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	9	0.15	0.01	0.15
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	9	0.15	0.01	0.15
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	9	0.15	0.03	0.15
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	9	0.15	0.03	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	9	0.15	0.03	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	9	0.15	0.03	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	9	0.15	0.03	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	9	0.15	0.03	0.15
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	9	0.14	0.03	0.14
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	8	0.24	0.11	0.22
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	8	0.24	0.11	0.22
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	8	0.24	0.11	0.22
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	8	0.16	0.03	0.15
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	8	0.14	0.02	0.14
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD11	7	0.38	0.05	0.36
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD12	7	0.38	0.05	0.36
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD13	7	0.38	0.05	0.36
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD11	7	0.25	0.06	0.28
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD12	7	0.25	0.06	0.28
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD13	7	0.25	0.06	0.28
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD11	7	0.25	0.06	0.28
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD12	7	0.25	0.06	0.28
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD13	7	0.25	0.06	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD11	7	0.25	0.06	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD12	7	0.25	0.06	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD13	7	0.25	0.06	0.28
(1,3823)	1:199:A:ALA:HB1	2:208:A:M7G:H2'	7	0.21	0.05	0.21
(1,3823)	1:199:A:ALA:HB2	2:208:A:M7G:H2'	7	0.21	0.05	0.21
(1,3823)	1:199:A:ALA:HB3	2:208:A:M7G:H2'	7	0.21	0.05	0.21
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD1	7	0.2	0.07	0.21
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD2	7	0.2	0.07	0.21
(2,39)	1:91:A:ARG:H	1:145:A:ILE:O	7	0.17	0.05	0.16
(2,85)	1:85:A:CYS:O	1:151:A:VAL:H	7	0.17	0.04	0.18
(2,100)	1:107:A:GLY:O	1:162:A:ASN:N	7	0.13	0.03	0.11
(1,3158)	1:81:A:LEU:HD11	1:85:A:CYS:H	6	0.16	0.05	0.15
(1,3158)	1:81:A:LEU:HD12	1:85:A:CYS:H	6	0.16	0.05	0.15
(1,3158)	1:81:A:LEU:HD13	1:85:A:CYS:H	6	0.16	0.05	0.15
(1,3158)	1:81:A:LEU:HD21	1:85:A:CYS:H	6	0.16	0.05	0.15
(1,3158)	1:81:A:LEU:HD22	1:85:A:CYS:H	6	0.16	0.05	0.15
(1,3158)	1:81:A:LEU:HD23	1:85:A:CYS:H	6	0.16	0.05	0.15
(1,2602)	1:56:A:LEU:HD21	1:97:A:LEU:HG	6	0.16	0.04	0.16
(1,2602)	1:56:A:LEU:HD22	1:97:A:LEU:HG	6	0.16	0.04	0.16
(1,2602)	1:56:A:LEU:HD23	1:97:A:LEU:HG	6	0.16	0.04	0.16
(2,86)	1:85:A:CYS:O	1:151:A:VAL:N	6	0.14	0.02	0.16
(2,51)	1:117:A:SER:O	1:121:A:VAL:H	6	0.13	0.02	0.13
(1,224)	1:113:A:VAL:HB	1:118:A:THR:H	5	0.3	0.15	0.33

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1910)	1:176:A:LYS:HA	1:179:A:GLN:HG3	5	0.29	0.12	0.23
(1,3377)	1:113:A:VAL:HG11	1:157:A:VAL:H	5	0.22	0.08	0.2
(1,3377)	1:113:A:VAL:HG12	1:157:A:VAL:H	5	0.22	0.08	0.2
(1,3377)	1:113:A:VAL:HG13	1:157:A:VAL:H	5	0.22	0.08	0.2
(1,3377)	1:113:A:VAL:HG21	1:157:A:VAL:H	5	0.22	0.08	0.2
(1,3377)	1:113:A:VAL:HG22	1:157:A:VAL:H	5	0.22	0.08	0.2
(1,3377)	1:113:A:VAL:HG23	1:157:A:VAL:H	5	0.22	0.08	0.2
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG21	5	0.21	0.08	0.2
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG22	5	0.21	0.08	0.2
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG23	5	0.21	0.08	0.2
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG21	5	0.21	0.08	0.2
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG22	5	0.21	0.08	0.2
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG23	5	0.21	0.08	0.2
(1,2382)	1:69:A:TRP:HZ2	1:127:A:LEU:HG	5	0.18	0.03	0.18
(2,45)	1:110:A:LYS:H	1:190:A:PHE:O	5	0.17	0.02	0.17
(1,3166)	1:81:A:LEU:HD11	1:151:A:VAL:HB	5	0.17	0.06	0.17
(1,3166)	1:81:A:LEU:HD12	1:151:A:VAL:HB	5	0.17	0.06	0.17
(1,3166)	1:81:A:LEU:HD13	1:151:A:VAL:HB	5	0.17	0.06	0.17
(1,3166)	1:81:A:LEU:HD21	1:151:A:VAL:HB	5	0.17	0.06	0.17
(1,3166)	1:81:A:LEU:HD22	1:151:A:VAL:HB	5	0.17	0.06	0.17
(1,3166)	1:81:A:LEU:HD23	1:151:A:VAL:HB	5	0.17	0.06	0.17
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG11	5	0.16	0.06	0.14
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG12	5	0.16	0.06	0.14
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG13	5	0.16	0.06	0.14
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG11	5	0.16	0.06	0.14
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG12	5	0.16	0.06	0.14
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG13	5	0.16	0.06	0.14
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG11	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG12	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG13	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG21	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG22	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG23	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG11	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG12	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG13	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG21	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG22	5	0.16	0.02	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG23	5	0.16	0.02	0.17
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG11	5	0.15	0.02	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG12	5	0.15	0.02	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG13	5	0.15	0.02	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG21	5	0.15	0.02	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG22	5	0.15	0.02	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG23	5	0.15	0.02	0.15
(2,96)	1:109:A:TRP:O	1:160:A:VAL:N	5	0.14	0.02	0.13
(1,2341)	1:83:A:LEU:HD11	1:152:A:ARG:HA	5	0.13	0.02	0.12
(1,2341)	1:83:A:LEU:HD12	1:152:A:ARG:HA	5	0.13	0.02	0.12
(1,2341)	1:83:A:LEU:HD13	1:152:A:ARG:HA	5	0.13	0.02	0.12
(2,48)	1:111:A:MET:N	1:158:A:VAL:O	5	0.12	0.01	0.12
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG11	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG12	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG13	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG21	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG22	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG23	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG11	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG12	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG13	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG21	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG22	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG23	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG11	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG12	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG13	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG21	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG22	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG23	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG11	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG12	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG13	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG21	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG22	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG23	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG11	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG12	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG13	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG21	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG22	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG23	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG11	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG12	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG13	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG21	4	0.34	0.04	0.33

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG22	4	0.34	0.04	0.33
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG23	4	0.34	0.04	0.33
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD21	4	0.29	0.09	0.32
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD22	4	0.29	0.09	0.32
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD23	4	0.29	0.09	0.32
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD21	4	0.29	0.09	0.32
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD22	4	0.29	0.09	0.32
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD23	4	0.29	0.09	0.32
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD21	4	0.29	0.09	0.32
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD22	4	0.29	0.09	0.32
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD23	4	0.29	0.09	0.32
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD2	4	0.21	0.06	0.22
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD3	4	0.21	0.06	0.22
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB2	4	0.21	0.06	0.22
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB3	4	0.21	0.06	0.22
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB2	4	0.21	0.06	0.22
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB3	4	0.21	0.06	0.22
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB2	4	0.21	0.06	0.22
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB3	4	0.21	0.06	0.22
(1,1986)	1:68:A:PHE:HZ	1:127:A:LEU:HB3	4	0.2	0.09	0.16
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG11	4	0.2	0.04	0.19
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG12	4	0.2	0.04	0.19
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG13	4	0.2	0.04	0.19
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG21	4	0.2	0.04	0.19
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG22	4	0.2	0.04	0.19
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG23	4	0.2	0.04	0.19
(1,2745)	1:97:A:LEU:HB2	1:99:A:GLU:H	4	0.2	0.05	0.22
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG21	4	0.2	0.07	0.19
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG22	4	0.2	0.07	0.19
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG23	4	0.2	0.07	0.19
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG21	4	0.2	0.07	0.19
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG22	4	0.2	0.07	0.19
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG23	4	0.2	0.07	0.19
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD2	4	0.19	0.0	0.19
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD3	4	0.19	0.0	0.19
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD2	4	0.19	0.0	0.19
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD3	4	0.19	0.0	0.19
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD2	4	0.19	0.0	0.19
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD3	4	0.19	0.0	0.19
(1,496)	1:115:A:LYS:H	1:115:A:LYS:HD2	4	0.18	0.03	0.18
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM71	4	0.17	0.05	0.16
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM72	4	0.17	0.05	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM73	4	0.17	0.05	0.16
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM71	4	0.17	0.05	0.16
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM72	4	0.17	0.05	0.16
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM73	4	0.17	0.05	0.16
(1,1612)	1:42:A:ARG:HG2	1:84:A:ARG:HA	4	0.17	0.08	0.13
(1,1612)	1:42:A:ARG:HG3	1:84:A:ARG:HA	4	0.17	0.08	0.13
(1,2817)	1:30:A:VAL:HG11	1:31:A:PRO:HG3	4	0.16	0.02	0.17
(1,2817)	1:30:A:VAL:HG12	1:31:A:PRO:HG3	4	0.16	0.02	0.17
(1,2817)	1:30:A:VAL:HG13	1:31:A:PRO:HG3	4	0.16	0.02	0.17
(1,2817)	1:30:A:VAL:HG21	1:31:A:PRO:HG3	4	0.16	0.02	0.17
(1,2817)	1:30:A:VAL:HG22	1:31:A:PRO:HG3	4	0.16	0.02	0.17
(1,2817)	1:30:A:VAL:HG23	1:31:A:PRO:HG3	4	0.16	0.02	0.17
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM71	4	0.16	0.04	0.18
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM72	4	0.16	0.04	0.18
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM73	4	0.16	0.04	0.18
(1,3029)	1:62:A:VAL:HG11	1:67:A:ILE:HB	4	0.16	0.05	0.14
(1,3029)	1:62:A:VAL:HG12	1:67:A:ILE:HB	4	0.16	0.05	0.14
(1,3029)	1:62:A:VAL:HG13	1:67:A:ILE:HB	4	0.16	0.05	0.14
(1,3029)	1:62:A:VAL:HG21	1:67:A:ILE:HB	4	0.16	0.05	0.14
(1,3029)	1:62:A:VAL:HG22	1:67:A:ILE:HB	4	0.16	0.05	0.14
(1,3029)	1:62:A:VAL:HG23	1:67:A:ILE:HB	4	0.16	0.05	0.14
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM71	4	0.16	0.04	0.15
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM72	4	0.16	0.04	0.15
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM73	4	0.16	0.04	0.15
(1,2580)	1:60:A:TYR:HD1	1:71:A:VAL:HB	4	0.15	0.02	0.15
(1,2580)	1:60:A:TYR:HD2	1:71:A:VAL:HB	4	0.15	0.02	0.15
(2,38)	1:37:A:THR:O	1:90:A:MET:N	4	0.14	0.02	0.14
(2,29)	1:41:A:ASP:O	1:86:A:SER:H	4	0.14	0.02	0.14
(2,42)	1:108:A:VAL:N	1:192:A:LYS:O	4	0.14	0.03	0.13
(2,97)	1:146:A:GLY:O	1:161:A:TRP:H	4	0.14	0.03	0.14
(2,17)	1:66:A:GLN:O	1:70:A:SER:H	4	0.14	0.03	0.12
(1,1907)	1:176:A:LYS:HA	1:179:A:GLN:HG2	4	0.13	0.02	0.14
(2,87)	1:152:A:ARG:H	1:155:A:GLU:O	4	0.13	0.03	0.12
(2,105)	1:172:A:THR:O	1:176:A:LYS:H	4	0.12	0.01	0.12
(1,1508)	1:118:A:THR:HG21	1:121:A:VAL:HB	3	0.3	0.1	0.35
(1,1508)	1:118:A:THR:HG22	1:121:A:VAL:HB	3	0.3	0.1	0.35
(1,1508)	1:118:A:THR:HG23	1:121:A:VAL:HB	3	0.3	0.1	0.35
(1,1082)	1:31:A:PRO:HG2	1:32:A:LEU:H	3	0.3	0.08	0.31
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD21	3	0.25	0.01	0.26
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD22	3	0.25	0.01	0.26
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD23	3	0.25	0.01	0.26
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG11	3	0.22	0.08	0.19

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG12	3	0.22	0.08	0.19
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG13	3	0.22	0.08	0.19
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG11	3	0.22	0.08	0.19
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG12	3	0.22	0.08	0.19
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG13	3	0.22	0.08	0.19
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG11	3	0.22	0.08	0.19
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG12	3	0.22	0.08	0.19
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG13	3	0.22	0.08	0.19
(1,2558)	1:78:A:VAL:HA	1:81:A:LEU:HG	3	0.21	0.08	0.16
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD21	3	0.21	0.05	0.19
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD22	3	0.21	0.05	0.19
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD23	3	0.21	0.05	0.19
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD21	3	0.21	0.05	0.19
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD22	3	0.21	0.05	0.19
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD23	3	0.21	0.05	0.19
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD21	3	0.21	0.05	0.19
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD22	3	0.21	0.05	0.19
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD23	3	0.21	0.05	0.19
(1,2767)	1:110:A:LYS:H	1:192:A:LYS:HG2	3	0.21	0.07	0.26
(1,2767)	1:110:A:LYS:H	1:192:A:LYS:HG3	3	0.21	0.07	0.26
(1,3259)	1:100:A:GLU:H	1:100:A:GLU:HG2	3	0.21	0.04	0.21
(1,3259)	1:100:A:GLU:H	1:100:A:GLU:HG3	3	0.21	0.04	0.21
(1,928)	1:43:A:SER:H	1:84:A:ARG:HD2	3	0.2	0.04	0.18
(1,928)	1:43:A:SER:H	1:84:A:ARG:HD3	3	0.2	0.04	0.18
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD11	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD12	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD13	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD21	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD22	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD23	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD11	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD12	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD13	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD21	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD22	3	0.2	0.06	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD23	3	0.2	0.06	0.2
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD21	3	0.2	0.04	0.22
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD22	3	0.2	0.04	0.22
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD23	3	0.2	0.04	0.22
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG11	3	0.2	0.02	0.21
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG12	3	0.2	0.02	0.21
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG13	3	0.2	0.02	0.21

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,495)	1:115:A:LYS:H	1:115:A:LYS:HD3	3	0.18	0.05	0.18
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB1	3	0.18	0.02	0.17
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB2	3	0.18	0.02	0.17
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB3	3	0.18	0.02	0.17
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD21	3	0.18	0.05	0.16
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD22	3	0.18	0.05	0.16
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD23	3	0.18	0.05	0.16
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD21	3	0.18	0.05	0.16
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD22	3	0.18	0.05	0.16
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD23	3	0.18	0.05	0.16
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG11	3	0.17	0.03	0.19
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG12	3	0.17	0.03	0.19
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG13	3	0.17	0.03	0.19
(1,2810)	1:23:A:LEU:HD11	1:24:A:PRO:HD2	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD11	1:24:A:PRO:HD3	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD12	1:24:A:PRO:HD2	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD12	1:24:A:PRO:HD3	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD13	1:24:A:PRO:HD2	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD13	1:24:A:PRO:HD3	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD21	1:24:A:PRO:HD2	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD21	1:24:A:PRO:HD3	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD22	1:24:A:PRO:HD2	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD22	1:24:A:PRO:HD3	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD23	1:24:A:PRO:HD2	3	0.17	0.04	0.17
(1,2810)	1:23:A:LEU:HD23	1:24:A:PRO:HD3	3	0.17	0.04	0.17
(1,3395)	1:115:A:LYS:H	1:115:A:LYS:HD2	3	0.17	0.02	0.17
(1,3395)	1:115:A:LYS:H	1:115:A:LYS:HD3	3	0.17	0.02	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD11	3	0.17	0.0	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD12	3	0.17	0.0	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD13	3	0.17	0.0	0.17
(1,3251)	1:97:A:LEU:HD11	1:100:A:GLU:HG2	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD11	1:100:A:GLU:HG3	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD12	1:100:A:GLU:HG2	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD12	1:100:A:GLU:HG3	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD13	1:100:A:GLU:HG2	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD13	1:100:A:GLU:HG3	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD21	1:100:A:GLU:HG2	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD21	1:100:A:GLU:HG3	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD22	1:100:A:GLU:HG2	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD22	1:100:A:GLU:HG3	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD23	1:100:A:GLU:HG2	3	0.16	0.02	0.16
(1,3251)	1:97:A:LEU:HD23	1:100:A:GLU:HG3	3	0.16	0.02	0.16

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1851)	1:195:A:GLU:HG2	1:200:A:PHE:HE1	3	0.15	0.04	0.17
(1,1851)	1:195:A:GLU:HG2	1:200:A:PHE:HE2	3	0.15	0.04	0.17
(1,1851)	1:195:A:GLU:HG3	1:200:A:PHE:HE1	3	0.15	0.04	0.17
(1,1851)	1:195:A:GLU:HG3	1:200:A:PHE:HE2	3	0.15	0.04	0.17
(2,40)	1:91:A:ARG:N	1:145:A:ILE:O	3	0.15	0.01	0.15
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG21	3	0.15	0.01	0.15
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG22	3	0.15	0.01	0.15
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG23	3	0.15	0.01	0.15
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG11	3	0.15	0.04	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG12	3	0.15	0.04	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG13	3	0.15	0.04	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG21	3	0.15	0.04	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG22	3	0.15	0.04	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG23	3	0.15	0.04	0.13
(1,601)	1:129:A:THR:HG21	1:134:A:PHE:H	3	0.15	0.03	0.16
(1,601)	1:129:A:THR:HG22	1:134:A:PHE:H	3	0.15	0.03	0.16
(1,601)	1:129:A:THR:HG23	1:134:A:PHE:H	3	0.15	0.03	0.16
(2,69)	1:126:A:LEU:O	1:130:A:ILE:H	3	0.15	0.01	0.14
(2,27)	1:71:A:VAL:O	1:75:A:ILE:H	3	0.14	0.02	0.15
(2,6)	1:38:A:PHE:N	1:60:A:TYR:O	3	0.14	0.01	0.14
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG21	3	0.14	0.02	0.15
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG22	3	0.14	0.02	0.15
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG23	3	0.14	0.02	0.15
(1,2638)	1:117:A:SER:HA	1:184:A:ILE:HA	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD11	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD12	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD13	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD11	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD12	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD13	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD11	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD12	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD13	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD11	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD12	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD13	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD11	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD12	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD13	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD11	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD12	3	0.13	0.02	0.14
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD13	3	0.13	0.02	0.14

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM71	3	0.12	0.02	0.11
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM72	3	0.12	0.02	0.11
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM73	3	0.12	0.02	0.11
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM71	3	0.12	0.02	0.11
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM72	3	0.12	0.02	0.11
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM73	3	0.12	0.02	0.11
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM71	3	0.12	0.02	0.11
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM72	3	0.12	0.02	0.11
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM73	3	0.12	0.02	0.11
(1,2637)	1:114:A:PRO:HG3	1:184:A:ILE:HA	3	0.1	0.0	0.1
(1,3518)	1:133:A:GLN:HG2	1:134:A:PHE:HA	2	0.84	0.14	0.84
(1,3518)	1:133:A:GLN:HG3	1:134:A:PHE:HA	2	0.84	0.14	0.84
(1,3217)	1:92:A:GLY:HA2	1:94:A:ARG:H	2	0.48	0.17	0.48
(1,3217)	1:92:A:GLY:HA3	1:94:A:ARG:H	2	0.48	0.17	0.48
(1,2957)	1:47:A:ALA:HB1	1:51:A:GLU:HB2	2	0.44	0.04	0.44
(1,2957)	1:47:A:ALA:HB1	1:51:A:GLU:HB3	2	0.44	0.04	0.44
(1,2957)	1:47:A:ALA:HB2	1:51:A:GLU:HB2	2	0.44	0.04	0.44
(1,2957)	1:47:A:ALA:HB2	1:51:A:GLU:HB3	2	0.44	0.04	0.44
(1,2957)	1:47:A:ALA:HB3	1:51:A:GLU:HB2	2	0.44	0.04	0.44
(1,2957)	1:47:A:ALA:HB3	1:51:A:GLU:HB3	2	0.44	0.04	0.44
(1,1568)	1:105:A:LYS:HA	1:105:A:LYS:HD2	2	0.38	0.03	0.38
(1,3225)	1:95:A:ARG:HG2	1:97:A:LEU:H	2	0.38	0.09	0.38
(1,3225)	1:95:A:ARG:HG3	1:97:A:LEU:H	2	0.38	0.09	0.38
(1,3279)	1:105:A:LYS:HA	1:105:A:LYS:HD2	2	0.36	0.11	0.36
(1,3279)	1:105:A:LYS:HA	1:105:A:LYS:HD3	2	0.36	0.11	0.36
(1,1368)	1:122:A:TRP:HH2	1:147:A:VAL:HB	2	0.32	0.16	0.32
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG11	2	0.3	0.04	0.3
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG12	2	0.3	0.04	0.3
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG13	2	0.3	0.04	0.3
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG21	2	0.3	0.04	0.3
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG22	2	0.3	0.04	0.3
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG23	2	0.3	0.04	0.3
(1,1329)	1:113:A:VAL:HB	1:157:A:VAL:HA	2	0.27	0.05	0.27
(1,2457)	1:113:A:VAL:HG21	1:186:A:PHE:HE1	2	0.27	0.1	0.27
(1,2457)	1:113:A:VAL:HG21	1:186:A:PHE:HE2	2	0.27	0.1	0.27
(1,2457)	1:113:A:VAL:HG22	1:186:A:PHE:HE1	2	0.27	0.1	0.27
(1,2457)	1:113:A:VAL:HG22	1:186:A:PHE:HE2	2	0.27	0.1	0.27
(1,2457)	1:113:A:VAL:HG23	1:186:A:PHE:HE1	2	0.27	0.1	0.27
(1,2457)	1:113:A:VAL:HG23	1:186:A:PHE:HE2	2	0.27	0.1	0.27
(1,1142)	1:188:A:ALA:HA	1:189:A:VAL:H	2	0.26	0.01	0.26
(1,332)	1:22:A:ALA:HA	1:23:A:LEU:H	2	0.24	0.12	0.24
(1,1614)	1:84:A:ARG:HA	1:84:A:ARG:HD2	2	0.23	0.03	0.23

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1614)	1:84:A:ARG:HA	1:84:A:ARG:HD3	2	0.23	0.03	0.23
(1,3826)	1:98:A:TRP:HH2	1:161:A:TRP:HZ3	2	0.23	0.09	0.23
(1,2659)	1:38:A:PHE:HD1	1:59:A:ILE:HG12	2	0.22	0.03	0.22
(1,2659)	1:38:A:PHE:HD2	1:59:A:ILE:HG12	2	0.22	0.03	0.22
(1,2759)	1:20:A:LEU:HA	1:22:A:ALA:H	2	0.22	0.03	0.22
(1,2042)	1:39:A:TRP:HB3	1:88:A:HIS:HD2	2	0.22	0.02	0.22
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG21	2	0.22	0.01	0.22
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG22	2	0.22	0.01	0.22
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG23	2	0.22	0.01	0.22
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG21	2	0.22	0.01	0.22
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG22	2	0.22	0.01	0.22
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG23	2	0.22	0.01	0.22
(1,1953)	1:16:A:LEU:HA	1:17:A:ASP:HB2	2	0.21	0.02	0.21
(1,1953)	1:16:A:LEU:HA	1:17:A:ASP:HB3	2	0.21	0.02	0.21
(1,915)	1:40:A:LEU:H	1:88:A:HIS:HD2	2	0.2	0.04	0.2
(1,1692)	1:37:A:THR:HG21	1:59:A:ILE:HB	2	0.2	0.02	0.2
(1,1692)	1:37:A:THR:HG22	1:59:A:ILE:HB	2	0.2	0.02	0.2
(1,1692)	1:37:A:THR:HG23	1:59:A:ILE:HB	2	0.2	0.02	0.2
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD11	2	0.2	0.02	0.2
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD12	2	0.2	0.02	0.2
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD13	2	0.2	0.02	0.2
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD11	2	0.2	0.02	0.2
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD12	2	0.2	0.02	0.2
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD13	2	0.2	0.02	0.2
(1,1937)	1:159:A:GLN:HB2	1:192:A:LYS:HG2	2	0.18	0.05	0.18
(1,1937)	1:159:A:GLN:HB2	1:192:A:LYS:HG3	2	0.18	0.05	0.18
(1,1937)	1:159:A:GLN:HB3	1:192:A:LYS:HG2	2	0.18	0.05	0.18
(1,1937)	1:159:A:GLN:HB3	1:192:A:LYS:HG3	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG11	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG12	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG13	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG21	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG22	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG23	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG11	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG12	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG13	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG21	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG22	2	0.18	0.05	0.18
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG23	2	0.18	0.05	0.18
(1,3375)	1:113:A:VAL:HG11	1:156:A:ASP:HB2	2	0.18	0.04	0.18
(1,3375)	1:113:A:VAL:HG12	1:156:A:ASP:HB2	2	0.18	0.04	0.18

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,3375)	1:113:A:VAL:HG13	1:156:A:ASP:HB2	2	0.18	0.04	0.18
(1,3375)	1:113:A:VAL:HG21	1:156:A:ASP:HB2	2	0.18	0.04	0.18
(1,3375)	1:113:A:VAL:HG22	1:156:A:ASP:HB2	2	0.18	0.04	0.18
(1,3375)	1:113:A:VAL:HG23	1:156:A:ASP:HB2	2	0.18	0.04	0.18
(1,808)	1:78:A:VAL:HA	1:81:A:LEU:H	2	0.18	0.02	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD11	2	0.18	0.0	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD12	2	0.18	0.0	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD13	2	0.18	0.0	0.18
(1,1143)	1:189:A:VAL:H	1:189:A:VAL:HB	2	0.18	0.08	0.18
(1,629)	1:123:A:LYS:HE2	1:124:A:GLU:H	2	0.17	0.0	0.17
(1,629)	1:123:A:LYS:HE3	1:124:A:GLU:H	2	0.17	0.0	0.17
(1,3294)	1:108:A:VAL:HG11	1:110:A:LYS:HD2	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG11	1:110:A:LYS:HD3	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG12	1:110:A:LYS:HD2	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG12	1:110:A:LYS:HD3	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG13	1:110:A:LYS:HD2	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG13	1:110:A:LYS:HD3	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG21	1:110:A:LYS:HD2	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG21	1:110:A:LYS:HD3	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG22	1:110:A:LYS:HD2	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG22	1:110:A:LYS:HD3	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG23	1:110:A:LYS:HD2	2	0.17	0.06	0.17
(1,3294)	1:108:A:VAL:HG23	1:110:A:LYS:HD3	2	0.17	0.06	0.17
(1,2608)	1:37:A:THR:HB	1:58:A:LYS:HD2	2	0.16	0.06	0.16
(1,2608)	1:37:A:THR:HB	1:58:A:LYS:HD3	2	0.16	0.06	0.16
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD11	2	0.16	0.04	0.16
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD12	2	0.16	0.04	0.16
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD13	2	0.16	0.04	0.16
(1,3253)	1:98:A:TRP:HE3	1:194:A:HIS:HB2	2	0.16	0.04	0.16
(1,3253)	1:98:A:TRP:HE3	1:194:A:HIS:HB3	2	0.16	0.04	0.16
(1,3761)	1:187:A:LYS:HG2	1:188:A:ALA:H	2	0.16	0.04	0.16
(1,3761)	1:187:A:LYS:HG3	1:188:A:ALA:H	2	0.16	0.04	0.16
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG11	2	0.16	0.02	0.16
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG12	2	0.16	0.02	0.16
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG13	2	0.16	0.02	0.16
(1,736)	1:97:A:LEU:H	1:103:A:ASN:HD22	2	0.15	0.04	0.15
(1,1330)	1:150:A:SER:HB2	1:157:A:VAL:HB	2	0.15	0.04	0.15
(1,196)	1:181:A:LEU:H	1:182:A:PRO:HD2	2	0.15	0.02	0.15
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG21	2	0.15	0.03	0.15
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG22	2	0.15	0.03	0.15
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG23	2	0.15	0.03	0.15
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG21	2	0.15	0.03	0.15

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG22	2	0.15	0.03	0.15
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG23	2	0.15	0.03	0.15
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG21	2	0.15	0.03	0.15
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG22	2	0.15	0.03	0.15
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG23	2	0.15	0.03	0.15
(1,1529)	1:113:A:VAL:HB	1:186:A:PHE:HE1	2	0.15	0.03	0.15
(1,1529)	1:113:A:VAL:HB	1:186:A:PHE:HE2	2	0.15	0.03	0.15
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG21	2	0.15	0.02	0.15
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG22	2	0.15	0.02	0.15
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG23	2	0.15	0.02	0.15
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG21	2	0.15	0.02	0.15
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG22	2	0.15	0.02	0.15
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG23	2	0.15	0.02	0.15
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD21	2	0.14	0.03	0.14
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD22	2	0.14	0.03	0.14
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD23	2	0.14	0.03	0.14
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD21	2	0.14	0.03	0.14
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD22	2	0.14	0.03	0.14
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD23	2	0.14	0.03	0.14
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD11	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD12	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD13	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD21	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD22	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD23	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD11	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD12	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD13	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD21	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD22	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD23	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD11	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD12	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD13	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD21	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD22	2	0.14	0.04	0.14
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD23	2	0.14	0.04	0.14
(1,2482)	1:110:A:LYS:HB2	1:110:A:LYS:HE2	2	0.14	0.01	0.14
(1,2482)	1:110:A:LYS:HB2	1:110:A:LYS:HE3	2	0.14	0.01	0.14
(2,101)	1:165:A:ALA:O	1:168:A:VAL:H	2	0.14	0.02	0.14
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD11	2	0.13	0.01	0.13
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD12	2	0.13	0.01	0.13

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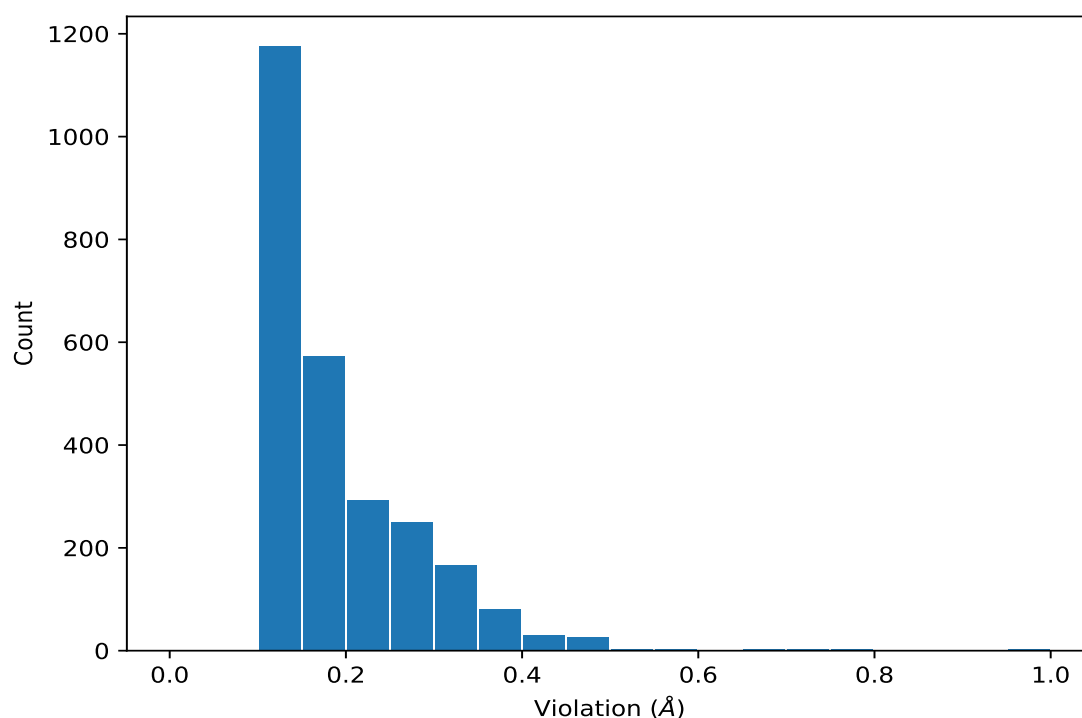
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD13	2	0.13	0.01	0.13
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD11	2	0.13	0.01	0.13
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD12	2	0.13	0.01	0.13
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD13	2	0.13	0.01	0.13
(1,2629)	1:42:A:ARG:HG2	1:43:A:SER:HA	2	0.13	0.03	0.13
(1,2629)	1:42:A:ARG:HG3	1:43:A:SER:HA	2	0.13	0.03	0.13
(1,111)	1:36:A:TRP:HH2	1:146:A:GLY:H	2	0.12	0.01	0.12
(1,1589)	1:128:A:ALA:HA	1:133:A:GLN:HG2	2	0.12	0.01	0.12
(2,70)	1:126:A:LEU:O	1:130:A:ILE:N	2	0.12	0.02	0.12
(1,3818)	1:98:A:TRP:HZ3	2:208:A:M7G:H2'	2	0.12	0.02	0.12
(2,63)	1:123:A:LYS:O	1:127:A:LEU:H	2	0.12	0.02	0.12
(1,2059)	1:188:A:ALA:HB1	1:190:A:PHE:HZ	2	0.12	0.0	0.12
(1,2059)	1:188:A:ALA:HB2	1:190:A:PHE:HZ	2	0.12	0.0	0.12
(1,2059)	1:188:A:ALA:HB3	1:190:A:PHE:HZ	2	0.12	0.0	0.12
(2,46)	1:110:A:LYS:N	1:190:A:PHE:O	2	0.11	0.0	0.11
(2,103)	1:167:A:LEU:O	1:170:A:GLU:H	2	0.11	0.0	0.11
(1,886)	1:34:A:SER:H	1:36:A:TRP:HD1	2	0.11	0.0	0.11

<sup>1</sup>Number of violated models, <sup>2</sup>Standard deviation

## 9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3518)	1:133:A:GLN:HG2	1:134:A:PHE:HA	7	0.98
(1,3518)	1:133:A:GLN:HG3	1:134:A:PHE:HA	7	0.98
(1,3828)	1:84:A:ARG:HH21	2:208:A:M7G:PB	4	0.79
(1,3828)	1:84:A:ARG:HH22	2:208:A:M7G:PB	4	0.79
(1,3518)	1:133:A:GLN:HG2	1:134:A:PHE:HA	10	0.71
(1,3518)	1:133:A:GLN:HG3	1:134:A:PHE:HA	10	0.71
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	1	0.65
(1,3217)	1:92:A:GLY:HA2	1:94:A:ARG:H	3	0.65
(1,3217)	1:92:A:GLY:HA3	1:94:A:ARG:H	3	0.65
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	7	0.6
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	5	0.55
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	2	0.52
(1,143)	1:185:A:ALA:HA	1:186:A:PHE:H	4	0.51
(1,89)	1:122:A:TRP:H	1:125:A:LEU:HG	10	0.51
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD11	10	0.49
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD12	10	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD13	10	0.49
(1,2957)	1:47:A:ALA:HB1	1:51:A:GLU:HB2	4	0.48
(1,2957)	1:47:A:ALA:HB1	1:51:A:GLU:HB3	4	0.48
(1,2957)	1:47:A:ALA:HB2	1:51:A:GLU:HB2	4	0.48
(1,2957)	1:47:A:ALA:HB2	1:51:A:GLU:HB3	4	0.48
(1,2957)	1:47:A:ALA:HB3	1:51:A:GLU:HB2	4	0.48
(1,2957)	1:47:A:ALA:HB3	1:51:A:GLU:HB3	4	0.48
(1,1368)	1:122:A:TRP:HH2	1:147:A:VAL:HB	5	0.48
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	1	0.47
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	1	0.47
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	5	0.47
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	5	0.47
(1,3225)	1:95:A:ARG:HG2	1:97:A:LEU:H	5	0.47
(1,3225)	1:95:A:ARG:HG3	1:97:A:LEU:H	5	0.47
(1,1910)	1:176:A:LYS:HA	1:179:A:GLN:HG3	2	0.47
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	4	0.46
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	4	0.46
(1,3279)	1:105:A:LYS:HA	1:105:A:LYS:HD2	9	0.46
(1,3279)	1:105:A:LYS:HA	1:105:A:LYS:HD3	9	0.46
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	3	0.45
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	3	0.45
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	3	0.45
(1,224)	1:113:A:VAL:HB	1:118:A:THR:H	2	0.45
(1,224)	1:113:A:VAL:HB	1:118:A:THR:H	8	0.45
(1,2317)	1:163:A:VAL:HG21	1:164:A:ASN:HB3	6	0.44
(1,2317)	1:163:A:VAL:HG22	1:164:A:ASN:HB3	6	0.44
(1,2317)	1:163:A:VAL:HG23	1:164:A:ASN:HB3	6	0.44
(1,2137)	1:65:A:VAL:HG11	1:130:A:ILE:HD11	3	0.43
(1,2137)	1:65:A:VAL:HG11	1:130:A:ILE:HD12	3	0.43
(1,2137)	1:65:A:VAL:HG11	1:130:A:ILE:HD13	3	0.43
(1,2137)	1:65:A:VAL:HG12	1:130:A:ILE:HD11	3	0.43
(1,2137)	1:65:A:VAL:HG12	1:130:A:ILE:HD12	3	0.43
(1,2137)	1:65:A:VAL:HG12	1:130:A:ILE:HD13	3	0.43
(1,2137)	1:65:A:VAL:HG13	1:130:A:ILE:HD11	3	0.43
(1,2137)	1:65:A:VAL:HG13	1:130:A:ILE:HD12	3	0.43
(1,2137)	1:65:A:VAL:HG13	1:130:A:ILE:HD13	3	0.43
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	7	0.41
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	7	0.41
(1,2957)	1:47:A:ALA:HB1	1:51:A:GLU:HB2	9	0.41
(1,2957)	1:47:A:ALA:HB1	1:51:A:GLU:HB3	9	0.41
(1,2957)	1:47:A:ALA:HB2	1:51:A:GLU:HB2	9	0.41
(1,2957)	1:47:A:ALA:HB2	1:51:A:GLU:HB3	9	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2957)	1:47:A:ALA:HB3	1:51:A:GLU:HB2	9	0.41
(1,2957)	1:47:A:ALA:HB3	1:51:A:GLU:HB3	9	0.41
(1,1568)	1:105:A:LYS:HA	1:105:A:LYS:HD2	10	0.41
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD11	6	0.41
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD12	6	0.41
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD13	6	0.41
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	8	0.4
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	8	0.4
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	10	0.4
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	10	0.4
(1,1508)	1:118:A:THR:HG21	1:121:A:VAL:HB	5	0.4
(1,1508)	1:118:A:THR:HG22	1:121:A:VAL:HB	5	0.4
(1,1508)	1:118:A:THR:HG23	1:121:A:VAL:HB	5	0.4
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	8	0.39
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	10	0.39
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	3	0.39
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	3	0.39
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	6	0.39
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	6	0.39
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG11	8	0.39
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG12	8	0.39
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG13	8	0.39
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG21	8	0.39
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG22	8	0.39
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG23	8	0.39
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG11	8	0.39
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG12	8	0.39
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG13	8	0.39
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG21	8	0.39
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG22	8	0.39
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG23	8	0.39
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG11	8	0.39
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG12	8	0.39
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG13	8	0.39
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG21	8	0.39
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG22	8	0.39
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG23	8	0.39
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG11	8	0.39
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG12	8	0.39
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG13	8	0.39
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG21	8	0.39
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG22	8	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG23	8	0.39
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG11	8	0.39
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG12	8	0.39
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG13	8	0.39
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG21	8	0.39
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG22	8	0.39
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG23	8	0.39
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG11	8	0.39
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG12	8	0.39
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG13	8	0.39
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG21	8	0.39
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG22	8	0.39
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG23	8	0.39
(1,1082)	1:31:A:PRO:HG2	1:32:A:LEU:H	8	0.39
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD11	4	0.39
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD12	4	0.39
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD13	4	0.39
(1,1910)	1:176:A:LYS:HA	1:179:A:GLN:HG3	9	0.38
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	9	0.37
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	9	0.37
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	9	0.37
(1,2457)	1:113:A:VAL:HG21	1:186:A:PHE:HE1	1	0.37
(1,2457)	1:113:A:VAL:HG21	1:186:A:PHE:HE2	1	0.37
(1,2457)	1:113:A:VAL:HG22	1:186:A:PHE:HE1	1	0.37
(1,2457)	1:113:A:VAL:HG22	1:186:A:PHE:HE2	1	0.37
(1,2457)	1:113:A:VAL:HG23	1:186:A:PHE:HE1	1	0.37
(1,2457)	1:113:A:VAL:HG23	1:186:A:PHE:HE2	1	0.37
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD21	1	0.37
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD22	1	0.37
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD23	1	0.37
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD21	1	0.37
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD22	1	0.37
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD23	1	0.37
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD21	1	0.37
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD22	1	0.37
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD23	1	0.37
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	2	0.36
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	2	0.36
(1,3377)	1:113:A:VAL:HG11	1:157:A:VAL:H	10	0.36
(1,3377)	1:113:A:VAL:HG12	1:157:A:VAL:H	10	0.36
(1,3377)	1:113:A:VAL:HG13	1:157:A:VAL:H	10	0.36
(1,3377)	1:113:A:VAL:HG21	1:157:A:VAL:H	10	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3377)	1:113:A:VAL:HG22	1:157:A:VAL:H	10	0.36
(1,3377)	1:113:A:VAL:HG23	1:157:A:VAL:H	10	0.36
(1,1986)	1:68:A:PHE:HZ	1:127:A:LEU:HB3	5	0.36
(1,332)	1:22:A:ALA:HA	1:23:A:LEU:H	5	0.36
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD11	3	0.36
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD12	3	0.36
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD13	3	0.36
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD11	8	0.36
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD12	8	0.36
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD13	8	0.36
(1,3620)	1:155:A:GLU:HB2	1:157:A:VAL:HG11	1	0.35
(1,3620)	1:155:A:GLU:HB2	1:157:A:VAL:HG12	1	0.35
(1,3620)	1:155:A:GLU:HB2	1:157:A:VAL:HG13	1	0.35
(1,3620)	1:155:A:GLU:HB2	1:157:A:VAL:HG21	1	0.35
(1,3620)	1:155:A:GLU:HB2	1:157:A:VAL:HG22	1	0.35
(1,3620)	1:155:A:GLU:HB2	1:157:A:VAL:HG23	1	0.35
(1,3620)	1:155:A:GLU:HB3	1:157:A:VAL:HG11	1	0.35
(1,3620)	1:155:A:GLU:HB3	1:157:A:VAL:HG12	1	0.35
(1,3620)	1:155:A:GLU:HB3	1:157:A:VAL:HG13	1	0.35
(1,3620)	1:155:A:GLU:HB3	1:157:A:VAL:HG21	1	0.35
(1,3620)	1:155:A:GLU:HB3	1:157:A:VAL:HG22	1	0.35
(1,3620)	1:155:A:GLU:HB3	1:157:A:VAL:HG23	1	0.35
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD21	5	0.35
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD22	5	0.35
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD23	5	0.35
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD21	5	0.35
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD22	5	0.35
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD23	5	0.35
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD21	5	0.35
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD22	5	0.35
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD23	5	0.35
(1,1568)	1:105:A:LYS:HA	1:105:A:LYS:HD2	9	0.35
(1,1508)	1:118:A:THR:HG21	1:121:A:VAL:HB	7	0.35
(1,1508)	1:118:A:THR:HG22	1:121:A:VAL:HB	7	0.35
(1,1508)	1:118:A:THR:HG23	1:121:A:VAL:HB	7	0.35
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	6	0.34
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG11	3	0.34
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG12	3	0.34
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG13	3	0.34
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG21	3	0.34
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG22	3	0.34
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG23	3	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG11	3	0.34
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG12	3	0.34
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG13	3	0.34
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG21	3	0.34
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG22	3	0.34
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG23	3	0.34
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG11	3	0.34
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG12	3	0.34
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG13	3	0.34
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG21	3	0.34
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG22	3	0.34
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG23	3	0.34
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG11	3	0.34
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG12	3	0.34
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG13	3	0.34
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG21	3	0.34
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG22	3	0.34
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG23	3	0.34
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG11	3	0.34
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG12	3	0.34
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG13	3	0.34
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG21	3	0.34
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG22	3	0.34
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG23	3	0.34
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG11	3	0.34
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG12	3	0.34
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG13	3	0.34
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG21	3	0.34
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG22	3	0.34
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG23	3	0.34
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG21	8	0.34
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG22	8	0.34
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG23	8	0.34
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG21	8	0.34
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG22	8	0.34
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG23	8	0.34
(1,1564)	1:105:A:LYS:HA	1:105:A:LYS:HD3	9	0.34
(1,2558)	1:78:A:VAL:HA	1:81:A:LEU:HG	5	0.33
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG11	10	0.33
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG12	10	0.33
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG13	10	0.33
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG11	10	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG12	10	0.33
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG13	10	0.33
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG11	10	0.33
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG12	10	0.33
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG13	10	0.33
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD11	2	0.33
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD12	2	0.33
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD13	2	0.33
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD11	2	0.33
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD12	2	0.33
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD13	2	0.33
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD11	2	0.33
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD12	2	0.33
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD13	2	0.33
(1,1299)	1:145:A:ILE:HD11	1:163:A:VAL:HB	6	0.33
(1,1299)	1:145:A:ILE:HD12	1:163:A:VAL:HB	6	0.33
(1,1299)	1:145:A:ILE:HD13	1:163:A:VAL:HB	6	0.33
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD11	5	0.33
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD12	5	0.33
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD13	5	0.33
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG11	1	0.33
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG12	1	0.33
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG13	1	0.33
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG21	1	0.33
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG22	1	0.33
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG23	1	0.33
(1,224)	1:113:A:VAL:HB	1:118:A:THR:H	9	0.33
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	8	0.32
(1,3826)	1:98:A:TRP:HH2	1:161:A:TRP:HZ3	9	0.32
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	9	0.32
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG11	7	0.32
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG12	7	0.32
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG13	7	0.32
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG21	7	0.32
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG22	7	0.32
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG23	7	0.32
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG11	7	0.32
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG12	7	0.32
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG13	7	0.32
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG21	7	0.32
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG22	7	0.32
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG23	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG11	7	0.32
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG12	7	0.32
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG13	7	0.32
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG21	7	0.32
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG22	7	0.32
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG23	7	0.32
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG11	7	0.32
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG12	7	0.32
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG13	7	0.32
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG21	7	0.32
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG22	7	0.32
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG23	7	0.32
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG11	7	0.32
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG12	7	0.32
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG13	7	0.32
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG21	7	0.32
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG22	7	0.32
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG23	7	0.32
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG11	7	0.32
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG12	7	0.32
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG13	7	0.32
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG21	7	0.32
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG22	7	0.32
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG23	7	0.32
(1,2631)	1:43:A:SER:HA	1:44:A:LEU:HG	7	0.32
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD11	5	0.32
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD12	5	0.32
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD13	5	0.32
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD11	5	0.32
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD12	5	0.32
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD13	5	0.32
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD11	5	0.32
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD12	5	0.32
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD13	5	0.32
(1,1329)	1:113:A:VAL:HB	1:157:A:VAL:HA	1	0.32
(1,794)	1:16:A:LEU:HD11	1:20:A:LEU:H	5	0.32
(1,794)	1:16:A:LEU:HD12	1:20:A:LEU:H	5	0.32
(1,794)	1:16:A:LEU:HD13	1:20:A:LEU:H	5	0.32
(1,794)	1:16:A:LEU:HD21	1:20:A:LEU:H	5	0.32
(1,794)	1:16:A:LEU:HD22	1:20:A:LEU:H	5	0.32
(1,794)	1:16:A:LEU:HD23	1:20:A:LEU:H	5	0.32
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD11	1	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD12	1	0.32
(1,275)	1:179:A:GLN:H	1:180:A:LEU:HD13	1	0.32
(1,146)	1:184:A:ILE:HB	1:186:A:PHE:H	10	0.32
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	5	0.31
(1,3217)	1:92:A:GLY:HA2	1:94:A:ARG:H	6	0.31
(1,3217)	1:92:A:GLY:HA3	1:94:A:ARG:H	6	0.31
(1,1612)	1:42:A:ARG:HG2	1:84:A:ARG:HA	8	0.31
(1,1612)	1:42:A:ARG:HG3	1:84:A:ARG:HA	8	0.31
(1,1082)	1:31:A:PRO:HG2	1:32:A:LEU:H	5	0.31
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	6	0.3
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	2	0.3
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	4	0.3
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	7	0.3
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	9	0.3
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	10	0.3
(1,1258)	1:134:A:PHE:HD1	1:173:A:VAL:HA	10	0.3
(1,1258)	1:134:A:PHE:HD2	1:173:A:VAL:HA	10	0.3
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	1	0.29
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	3	0.29
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG11	6	0.29
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG12	6	0.29
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG13	6	0.29
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG21	6	0.29
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG22	6	0.29
(1,3574)	1:147:A:VAL:HG11	1:158:A:VAL:HG23	6	0.29
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG11	6	0.29
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG12	6	0.29
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG13	6	0.29
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG21	6	0.29
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG22	6	0.29
(1,3574)	1:147:A:VAL:HG12	1:158:A:VAL:HG23	6	0.29
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG11	6	0.29
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG12	6	0.29
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG13	6	0.29
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG21	6	0.29
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG22	6	0.29
(1,3574)	1:147:A:VAL:HG13	1:158:A:VAL:HG23	6	0.29
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG11	6	0.29
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG12	6	0.29
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG13	6	0.29
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG21	6	0.29
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG22	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3574)	1:147:A:VAL:HG21	1:158:A:VAL:HG23	6	0.29
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG11	6	0.29
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG12	6	0.29
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG13	6	0.29
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG21	6	0.29
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG22	6	0.29
(1,3574)	1:147:A:VAL:HG22	1:158:A:VAL:HG23	6	0.29
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG11	6	0.29
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG12	6	0.29
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG13	6	0.29
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG21	6	0.29
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG22	6	0.29
(1,3574)	1:147:A:VAL:HG23	1:158:A:VAL:HG23	6	0.29
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD21	6	0.29
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD22	6	0.29
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD23	6	0.29
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD21	6	0.29
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD22	6	0.29
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD23	6	0.29
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD21	6	0.29
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD22	6	0.29
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD23	6	0.29
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	2	0.28
(2,75)	1:146:A:GLY:H	1:161:A:TRP:O	5	0.28
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	2	0.28
(1,3225)	1:95:A:ARG:HG2	1:97:A:LEU:H	8	0.28
(1,3225)	1:95:A:ARG:HG3	1:97:A:LEU:H	8	0.28
(1,3158)	1:81:A:LEU:HD11	1:85:A:CYS:H	5	0.28
(1,3158)	1:81:A:LEU:HD12	1:85:A:CYS:H	5	0.28
(1,3158)	1:81:A:LEU:HD13	1:85:A:CYS:H	5	0.28
(1,3158)	1:81:A:LEU:HD21	1:85:A:CYS:H	5	0.28
(1,3158)	1:81:A:LEU:HD22	1:85:A:CYS:H	5	0.28
(1,3158)	1:81:A:LEU:HD23	1:85:A:CYS:H	5	0.28
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG21	2	0.28
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG22	2	0.28
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG23	2	0.28
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG21	2	0.28
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG22	2	0.28
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG23	2	0.28
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD11	1	0.28
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD12	1	0.28
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD13	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD11	1	0.28
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD12	1	0.28
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD13	1	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD11	1	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD12	1	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD13	1	0.28
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD11	7	0.28
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD12	7	0.28
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD13	7	0.28
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD11	7	0.28
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD12	7	0.28
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD13	7	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD11	7	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD12	7	0.28
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD13	7	0.28
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD21	1	0.28
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD22	1	0.28
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD23	1	0.28
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD21	1	0.28
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD22	1	0.28
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD23	1	0.28
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD21	1	0.28
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD22	1	0.28
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD23	1	0.28
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD1	4	0.28
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD2	4	0.28
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD1	10	0.28
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD2	10	0.28
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	9	0.27
(1,3823)	1:199:A:ALA:HB1	2:208:A:M7G:H2'	2	0.27
(1,3823)	1:199:A:ALA:HB2	2:208:A:M7G:H2'	2	0.27
(1,3823)	1:199:A:ALA:HB3	2:208:A:M7G:H2'	2	0.27
(1,3823)	1:199:A:ALA:HB1	2:208:A:M7G:H2'	10	0.27
(1,3823)	1:199:A:ALA:HB2	2:208:A:M7G:H2'	10	0.27
(1,3823)	1:199:A:ALA:HB3	2:208:A:M7G:H2'	10	0.27
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	6	0.27
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	6	0.27
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	6	0.27
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG2	9	0.27
(1,3732)	1:179:A:GLN:H	1:179:A:GLN:HG3	9	0.27
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD11	6	0.27
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD12	6	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD13	6	0.27
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD21	6	0.27
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD22	6	0.27
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD23	6	0.27
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD11	6	0.27
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD12	6	0.27
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD13	6	0.27
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD21	6	0.27
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD22	6	0.27
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD23	6	0.27
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG11	9	0.27
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG12	9	0.27
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG13	9	0.27
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG11	9	0.27
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG12	9	0.27
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG13	9	0.27
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD2	1	0.27
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD3	1	0.27
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD2	4	0.27
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD3	4	0.27
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	1	0.26
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	10	0.26
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	7	0.26
(1,3259)	1:100:A:GLU:H	1:100:A:GLU:HG2	7	0.26
(1,3259)	1:100:A:GLU:H	1:100:A:GLU:HG3	7	0.26
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG11	7	0.26
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG12	7	0.26
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG13	7	0.26
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG21	7	0.26
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG22	7	0.26
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG23	7	0.26
(1,2807)	1:22:A:ALA:HA	1:23:A:LEU:HD11	4	0.26
(1,2807)	1:22:A:ALA:HA	1:23:A:LEU:HD12	4	0.26
(1,2807)	1:22:A:ALA:HA	1:23:A:LEU:HD13	4	0.26
(1,2807)	1:22:A:ALA:HA	1:23:A:LEU:HD21	4	0.26
(1,2807)	1:22:A:ALA:HA	1:23:A:LEU:HD22	4	0.26
(1,2807)	1:22:A:ALA:HA	1:23:A:LEU:HD23	4	0.26
(1,2767)	1:110:A:LYS:H	1:192:A:LYS:HG2	2	0.26
(1,2767)	1:110:A:LYS:H	1:192:A:LYS:HG3	2	0.26
(1,2767)	1:110:A:LYS:H	1:192:A:LYS:HG2	9	0.26
(1,2767)	1:110:A:LYS:H	1:192:A:LYS:HG3	9	0.26
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD21	2	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD22	2	0.26
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD23	2	0.26
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD21	7	0.26
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD22	7	0.26
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD23	7	0.26
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB2	2	0.26
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB3	2	0.26
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB2	2	0.26
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB3	2	0.26
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB2	2	0.26
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB3	2	0.26
(1,1614)	1:84:A:ARG:HA	1:84:A:ARG:HD2	6	0.26
(1,1614)	1:84:A:ARG:HA	1:84:A:ARG:HD3	6	0.26
(1,1142)	1:188:A:ALA:HA	1:189:A:VAL:H	1	0.26
(1,928)	1:43:A:SER:H	1:84:A:ARG:HD2	9	0.26
(1,928)	1:43:A:SER:H	1:84:A:ARG:HD3	9	0.26
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG11	7	0.26
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG12	7	0.26
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG13	7	0.26
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG21	7	0.26
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG22	7	0.26
(1,248)	1:112:A:LYS:H	1:189:A:VAL:HG23	7	0.26
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	3	0.25
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	4	0.25
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	4	0.25
(1,3823)	1:199:A:ALA:HB1	2:208:A:M7G:H2'	7	0.25
(1,3823)	1:199:A:ALA:HB2	2:208:A:M7G:H2'	7	0.25
(1,3823)	1:199:A:ALA:HB3	2:208:A:M7G:H2'	7	0.25
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	10	0.25
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	10	0.25
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	10	0.25
(1,3816)	1:98:A:TRP:HZ2	2:208:A:M7G:H3'	9	0.25
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM71	7	0.25
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM72	7	0.25
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM73	7	0.25
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM71	7	0.25
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM72	7	0.25
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM73	7	0.25
(1,3327)	1:110:A:LYS:HD2	1:157:A:VAL:HG11	2	0.25
(1,3327)	1:110:A:LYS:HD2	1:157:A:VAL:HG12	2	0.25
(1,3327)	1:110:A:LYS:HD2	1:157:A:VAL:HG13	2	0.25
(1,3327)	1:110:A:LYS:HD2	1:157:A:VAL:HG21	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3327)	1:110:A:LYS:HD2	1:157:A:VAL:HG22	2	0.25
(1,3327)	1:110:A:LYS:HD2	1:157:A:VAL:HG23	2	0.25
(1,3327)	1:110:A:LYS:HD3	1:157:A:VAL:HG11	2	0.25
(1,3327)	1:110:A:LYS:HD3	1:157:A:VAL:HG12	2	0.25
(1,3327)	1:110:A:LYS:HD3	1:157:A:VAL:HG13	2	0.25
(1,3327)	1:110:A:LYS:HD3	1:157:A:VAL:HG21	2	0.25
(1,3327)	1:110:A:LYS:HD3	1:157:A:VAL:HG22	2	0.25
(1,3327)	1:110:A:LYS:HD3	1:157:A:VAL:HG23	2	0.25
(1,3279)	1:105:A:LYS:HA	1:105:A:LYS:HD2	10	0.25
(1,3279)	1:105:A:LYS:HA	1:105:A:LYS:HD3	10	0.25
(1,3166)	1:81:A:LEU:HD11	1:151:A:VAL:HB	8	0.25
(1,3166)	1:81:A:LEU:HD12	1:151:A:VAL:HB	8	0.25
(1,3166)	1:81:A:LEU:HD13	1:151:A:VAL:HB	8	0.25
(1,3166)	1:81:A:LEU:HD21	1:151:A:VAL:HB	8	0.25
(1,3166)	1:81:A:LEU:HD22	1:151:A:VAL:HB	8	0.25
(1,3166)	1:81:A:LEU:HD23	1:151:A:VAL:HB	8	0.25
(1,2759)	1:20:A:LEU:HA	1:22:A:ALA:H	5	0.25
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG21	5	0.25
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG22	5	0.25
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG23	5	0.25
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG21	5	0.25
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG22	5	0.25
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG23	5	0.25
(1,2659)	1:38:A:PHE:HD1	1:59:A:ILE:HG12	9	0.25
(1,2659)	1:38:A:PHE:HD2	1:59:A:ILE:HG12	9	0.25
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG21	3	0.25
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG22	3	0.25
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG23	3	0.25
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG21	3	0.25
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG22	3	0.25
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG23	3	0.25
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB2	1	0.25
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB3	1	0.25
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB2	1	0.25
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB3	1	0.25
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB2	1	0.25
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB3	1	0.25
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD21	6	0.25
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD22	6	0.25
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD23	6	0.25
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD21	6	0.25
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD22	6	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD23	6	0.25
(1,1438)	1:47:A:ALA:HB1	1:51:A:GLU:HB3	9	0.25
(1,1438)	1:47:A:ALA:HB2	1:51:A:GLU:HB3	9	0.25
(1,1438)	1:47:A:ALA:HB3	1:51:A:GLU:HB3	9	0.25
(1,1143)	1:189:A:VAL:H	1:189:A:VAL:HB	6	0.25
(1,1142)	1:188:A:ALA:HA	1:189:A:VAL:H	8	0.25
(1,495)	1:115:A:LYS:H	1:115:A:LYS:HD3	4	0.25
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	2	0.24
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	7	0.24
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	8	0.24
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	3	0.24
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	9	0.24
(2,39)	1:91:A:ARG:H	1:145:A:ILE:O	2	0.24
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	3	0.24
(1,3029)	1:62:A:VAL:HG11	1:67:A:ILE:HB	6	0.24
(1,3029)	1:62:A:VAL:HG12	1:67:A:ILE:HB	6	0.24
(1,3029)	1:62:A:VAL:HG13	1:67:A:ILE:HB	6	0.24
(1,3029)	1:62:A:VAL:HG21	1:67:A:ILE:HB	6	0.24
(1,3029)	1:62:A:VAL:HG22	1:67:A:ILE:HB	6	0.24
(1,3029)	1:62:A:VAL:HG23	1:67:A:ILE:HB	6	0.24
(1,2745)	1:97:A:LEU:HB2	1:99:A:GLU:H	4	0.24
(1,2491)	1:105:A:LYS:H	1:105:A:LYS:HG2	9	0.24
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD11	3	0.24
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD12	3	0.24
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD13	3	0.24
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD11	3	0.24
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD12	3	0.24
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD13	3	0.24
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD11	3	0.24
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD12	3	0.24
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD13	3	0.24
(1,2042)	1:39:A:TRP:HB3	1:88:A:HIS:HD2	8	0.24
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG11	1	0.24
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG12	1	0.24
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG13	1	0.24
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG21	1	0.24
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG22	1	0.24
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG23	1	0.24
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG11	1	0.24
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG12	1	0.24
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG13	1	0.24
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG21	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG22	1	0.24
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG23	1	0.24
(1,1937)	1:159:A:GLN:HB2	1:192:A:LYS:HG2	1	0.24
(1,1937)	1:159:A:GLN:HB2	1:192:A:LYS:HG3	1	0.24
(1,1937)	1:159:A:GLN:HB3	1:192:A:LYS:HG2	1	0.24
(1,1937)	1:159:A:GLN:HB3	1:192:A:LYS:HG3	1	0.24
(1,1597)	1:90:A:MET:HE1	1:161:A:TRP:HE3	10	0.24
(1,1597)	1:90:A:MET:HE2	1:161:A:TRP:HE3	10	0.24
(1,1597)	1:90:A:MET:HE3	1:161:A:TRP:HE3	10	0.24
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD1	5	0.24
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD2	5	0.24
(2,85)	1:85:A:CYS:O	1:151:A:VAL:H	4	0.23
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	8	0.23
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	4	0.23
(1,3377)	1:113:A:VAL:HG11	1:157:A:VAL:H	3	0.23
(1,3377)	1:113:A:VAL:HG12	1:157:A:VAL:H	3	0.23
(1,3377)	1:113:A:VAL:HG13	1:157:A:VAL:H	3	0.23
(1,3377)	1:113:A:VAL:HG21	1:157:A:VAL:H	3	0.23
(1,3377)	1:113:A:VAL:HG22	1:157:A:VAL:H	3	0.23
(1,3377)	1:113:A:VAL:HG23	1:157:A:VAL:H	3	0.23
(1,3375)	1:113:A:VAL:HG11	1:156:A:ASP:HB2	5	0.23
(1,3375)	1:113:A:VAL:HG12	1:156:A:ASP:HB2	5	0.23
(1,3375)	1:113:A:VAL:HG13	1:156:A:ASP:HB2	5	0.23
(1,3375)	1:113:A:VAL:HG21	1:156:A:ASP:HB2	5	0.23
(1,3375)	1:113:A:VAL:HG22	1:156:A:ASP:HB2	5	0.23
(1,3375)	1:113:A:VAL:HG23	1:156:A:ASP:HB2	5	0.23
(1,3294)	1:108:A:VAL:HG11	1:110:A:LYS:HD2	3	0.23
(1,3294)	1:108:A:VAL:HG11	1:110:A:LYS:HD3	3	0.23
(1,3294)	1:108:A:VAL:HG12	1:110:A:LYS:HD2	3	0.23
(1,3294)	1:108:A:VAL:HG12	1:110:A:LYS:HD3	3	0.23
(1,3294)	1:108:A:VAL:HG13	1:110:A:LYS:HD2	3	0.23
(1,3294)	1:108:A:VAL:HG13	1:110:A:LYS:HD3	3	0.23
(1,3294)	1:108:A:VAL:HG21	1:110:A:LYS:HD2	3	0.23
(1,3294)	1:108:A:VAL:HG21	1:110:A:LYS:HD3	3	0.23
(1,3294)	1:108:A:VAL:HG22	1:110:A:LYS:HD2	3	0.23
(1,3294)	1:108:A:VAL:HG22	1:110:A:LYS:HD3	3	0.23
(1,3294)	1:108:A:VAL:HG23	1:110:A:LYS:HD2	3	0.23
(1,3294)	1:108:A:VAL:HG23	1:110:A:LYS:HD3	3	0.23
(1,3150)	1:81:A:LEU:H	1:81:A:LEU:HD11	6	0.23
(1,3150)	1:81:A:LEU:H	1:81:A:LEU:HD12	6	0.23
(1,3150)	1:81:A:LEU:H	1:81:A:LEU:HD13	6	0.23
(1,3150)	1:81:A:LEU:H	1:81:A:LEU:HD21	6	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3150)	1:81:A:LEU:H	1:81:A:LEU:HD22	6	0.23
(1,3150)	1:81:A:LEU:H	1:81:A:LEU:HD23	6	0.23
(1,2608)	1:37:A:THR:HB	1:58:A:LYS:HD2	8	0.23
(1,2608)	1:37:A:THR:HB	1:58:A:LYS:HD3	8	0.23
(1,2527)	1:43:A:SER:H	1:84:A:ARG:HB2	9	0.23
(1,2527)	1:43:A:SER:H	1:84:A:ARG:HB3	9	0.23
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD21	9	0.23
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD22	9	0.23
(1,2251)	1:178:A:HIS:H	1:180:A:LEU:HD23	9	0.23
(1,1953)	1:16:A:LEU:HA	1:17:A:ASP:HB2	10	0.23
(1,1953)	1:16:A:LEU:HA	1:17:A:ASP:HB3	10	0.23
(1,1910)	1:176:A:LYS:HA	1:179:A:GLN:HG3	5	0.23
(1,915)	1:40:A:LEU:H	1:88:A:HIS:HD2	6	0.23
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD21	2	0.23
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD22	2	0.23
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD23	2	0.23
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	9	0.22
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	3	0.22
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	5	0.22
(2,39)	1:91:A:ARG:H	1:145:A:ILE:O	4	0.22
(2,37)	1:37:A:THR:O	1:90:A:MET:H	2	0.22
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM71	8	0.22
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM72	8	0.22
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM73	8	0.22
(1,3166)	1:81:A:LEU:HD11	1:151:A:VAL:HB	5	0.22
(1,3166)	1:81:A:LEU:HD12	1:151:A:VAL:HB	5	0.22
(1,3166)	1:81:A:LEU:HD13	1:151:A:VAL:HB	5	0.22
(1,3166)	1:81:A:LEU:HD21	1:151:A:VAL:HB	5	0.22
(1,3166)	1:81:A:LEU:HD22	1:151:A:VAL:HB	5	0.22
(1,3166)	1:81:A:LEU:HD23	1:151:A:VAL:HB	5	0.22
(1,2810)	1:23:A:LEU:HD11	1:24:A:PRO:HD2	3	0.22
(1,2810)	1:23:A:LEU:HD11	1:24:A:PRO:HD3	3	0.22
(1,2810)	1:23:A:LEU:HD12	1:24:A:PRO:HD2	3	0.22
(1,2810)	1:23:A:LEU:HD12	1:24:A:PRO:HD3	3	0.22
(1,2810)	1:23:A:LEU:HD13	1:24:A:PRO:HD2	3	0.22
(1,2810)	1:23:A:LEU:HD13	1:24:A:PRO:HD3	3	0.22
(1,2810)	1:23:A:LEU:HD21	1:24:A:PRO:HD2	3	0.22
(1,2810)	1:23:A:LEU:HD21	1:24:A:PRO:HD3	3	0.22
(1,2810)	1:23:A:LEU:HD22	1:24:A:PRO:HD2	3	0.22
(1,2810)	1:23:A:LEU:HD22	1:24:A:PRO:HD3	3	0.22
(1,2810)	1:23:A:LEU:HD23	1:24:A:PRO:HD2	3	0.22
(1,2810)	1:23:A:LEU:HD23	1:24:A:PRO:HD3	3	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2745)	1:97:A:LEU:HB2	1:99:A:GLU:H	5	0.22
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	2	0.22
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	2	0.22
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	2	0.22
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	2	0.22
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	2	0.22
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	2	0.22
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG21	9	0.22
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG22	9	0.22
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG23	9	0.22
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG21	9	0.22
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG22	9	0.22
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG23	9	0.22
(1,2382)	1:69:A:TRP:HZ2	1:127:A:LEU:HG	1	0.22
(1,1329)	1:113:A:VAL:HB	1:157:A:VAL:HA	9	0.22
(1,765)	1:91:A:ARG:H	1:145:A:ILE:HG12	5	0.22
(1,765)	1:91:A:ARG:H	1:145:A:ILE:HG13	5	0.22
(1,496)	1:115:A:LYS:H	1:115:A:LYS:HD2	1	0.22
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD21	9	0.22
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD22	9	0.22
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD23	9	0.22
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	6	0.21
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	4	0.21
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	2	0.21
(2,45)	1:110:A:LYS:H	1:190:A:PHE:O	9	0.21
(2,39)	1:91:A:ARG:H	1:145:A:ILE:O	6	0.21
(1,3823)	1:199:A:ALA:HB1	2:208:A:M7G:H2'	5	0.21
(1,3823)	1:199:A:ALA:HB2	2:208:A:M7G:H2'	5	0.21
(1,3823)	1:199:A:ALA:HB3	2:208:A:M7G:H2'	5	0.21
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	6	0.21
(1,3672)	1:167:A:LEU:HA	1:168:A:VAL:HG11	10	0.21
(1,3672)	1:167:A:LEU:HA	1:168:A:VAL:HG12	10	0.21
(1,3672)	1:167:A:LEU:HA	1:168:A:VAL:HG13	10	0.21
(1,3672)	1:167:A:LEU:HA	1:168:A:VAL:HG21	10	0.21
(1,3672)	1:167:A:LEU:HA	1:168:A:VAL:HG22	10	0.21
(1,3672)	1:167:A:LEU:HA	1:168:A:VAL:HG23	10	0.21
(1,3259)	1:100:A:GLU:H	1:100:A:GLU:HG2	4	0.21
(1,3259)	1:100:A:GLU:H	1:100:A:GLU:HG3	4	0.21
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG11	8	0.21
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG12	8	0.21
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG13	8	0.21
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG21	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG22	8	0.21
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG23	8	0.21
(1,2745)	1:97:A:LEU:HB2	1:99:A:GLU:H	8	0.21
(1,2602)	1:56:A:LEU:HD21	1:97:A:LEU:HG	7	0.21
(1,2602)	1:56:A:LEU:HD22	1:97:A:LEU:HG	7	0.21
(1,2602)	1:56:A:LEU:HD23	1:97:A:LEU:HG	7	0.21
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG21	8	0.21
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG22	8	0.21
(1,2583)	1:38:A:PHE:HB2	1:71:A:VAL:HG23	8	0.21
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG21	8	0.21
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG22	8	0.21
(1,2583)	1:38:A:PHE:HB3	1:71:A:VAL:HG23	8	0.21
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD11	4	0.21
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD12	4	0.21
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD13	4	0.21
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD11	4	0.21
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD12	4	0.21
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD13	4	0.21
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB1	2	0.21
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB2	2	0.21
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB3	2	0.21
(1,1692)	1:37:A:THR:HG21	1:59:A:ILE:HB	6	0.21
(1,1692)	1:37:A:THR:HG22	1:59:A:ILE:HB	6	0.21
(1,1692)	1:37:A:THR:HG23	1:59:A:ILE:HB	6	0.21
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD1	8	0.21
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD2	8	0.21
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG11	3	0.21
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG12	3	0.21
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG13	3	0.21
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG11	7	0.21
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG12	7	0.21
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG13	7	0.21
(1,227)	1:114:A:PRO:HG2	1:118:A:THR:H	10	0.21
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	5	0.2
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	7	0.2
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	6	0.2
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	8	0.2
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM71	4	0.2
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM72	4	0.2
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM73	4	0.2
(1,3761)	1:187:A:LYS:HG2	1:188:A:ALA:H	8	0.2
(1,3761)	1:187:A:LYS:HG3	1:188:A:ALA:H	8	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3660)	1:165:A:ALA:HA	1:168:A:VAL:HG11	9	0.2
(1,3660)	1:165:A:ALA:HA	1:168:A:VAL:HG12	9	0.2
(1,3660)	1:165:A:ALA:HA	1:168:A:VAL:HG13	9	0.2
(1,3660)	1:165:A:ALA:HA	1:168:A:VAL:HG21	9	0.2
(1,3660)	1:165:A:ALA:HA	1:168:A:VAL:HG22	9	0.2
(1,3660)	1:165:A:ALA:HA	1:168:A:VAL:HG23	9	0.2
(1,3395)	1:115:A:LYS:H	1:115:A:LYS:HD2	2	0.2
(1,3395)	1:115:A:LYS:H	1:115:A:LYS:HD3	2	0.2
(1,3388)	1:114:A:PRO:HA	1:115:A:LYS:HD2	2	0.2
(1,3388)	1:114:A:PRO:HA	1:115:A:LYS:HD3	2	0.2
(1,3377)	1:113:A:VAL:HG11	1:157:A:VAL:H	4	0.2
(1,3377)	1:113:A:VAL:HG12	1:157:A:VAL:H	4	0.2
(1,3377)	1:113:A:VAL:HG13	1:157:A:VAL:H	4	0.2
(1,3377)	1:113:A:VAL:HG21	1:157:A:VAL:H	4	0.2
(1,3377)	1:113:A:VAL:HG22	1:157:A:VAL:H	4	0.2
(1,3377)	1:113:A:VAL:HG23	1:157:A:VAL:H	4	0.2
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG11	4	0.2
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG12	4	0.2
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG13	4	0.2
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG21	4	0.2
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG22	4	0.2
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG23	4	0.2
(1,3253)	1:98:A:TRP:HE3	1:194:A:HIS:HB2	3	0.2
(1,3253)	1:98:A:TRP:HE3	1:194:A:HIS:HB3	3	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD11	4	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD12	4	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD13	4	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD21	4	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD22	4	0.2
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD23	4	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD11	4	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD12	4	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD13	4	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD21	4	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD22	4	0.2
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD23	4	0.2
(1,3208)	1:89:A:LEU:HD11	1:130:A:ILE:HG21	6	0.2
(1,3208)	1:89:A:LEU:HD11	1:130:A:ILE:HG22	6	0.2
(1,3208)	1:89:A:LEU:HD11	1:130:A:ILE:HG23	6	0.2
(1,3208)	1:89:A:LEU:HD12	1:130:A:ILE:HG21	6	0.2
(1,3208)	1:89:A:LEU:HD12	1:130:A:ILE:HG22	6	0.2
(1,3208)	1:89:A:LEU:HD12	1:130:A:ILE:HG23	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3208)	1:89:A:LEU:HD13	1:130:A:ILE:HG21	6	0.2
(1,3208)	1:89:A:LEU:HD13	1:130:A:ILE:HG22	6	0.2
(1,3208)	1:89:A:LEU:HD13	1:130:A:ILE:HG23	6	0.2
(1,3208)	1:89:A:LEU:HD21	1:130:A:ILE:HG21	6	0.2
(1,3208)	1:89:A:LEU:HD21	1:130:A:ILE:HG22	6	0.2
(1,3208)	1:89:A:LEU:HD21	1:130:A:ILE:HG23	6	0.2
(1,3208)	1:89:A:LEU:HD22	1:130:A:ILE:HG21	6	0.2
(1,3208)	1:89:A:LEU:HD22	1:130:A:ILE:HG22	6	0.2
(1,3208)	1:89:A:LEU:HD22	1:130:A:ILE:HG23	6	0.2
(1,3208)	1:89:A:LEU:HD23	1:130:A:ILE:HG21	6	0.2
(1,3208)	1:89:A:LEU:HD23	1:130:A:ILE:HG22	6	0.2
(1,3208)	1:89:A:LEU:HD23	1:130:A:ILE:HG23	6	0.2
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD2	8	0.2
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD3	8	0.2
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD2	8	0.2
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD3	8	0.2
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD2	8	0.2
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD3	8	0.2
(1,2690)	1:31:A:PRO:HB2	1:64:A:THR:HG21	5	0.2
(1,2690)	1:31:A:PRO:HB2	1:64:A:THR:HG22	5	0.2
(1,2690)	1:31:A:PRO:HB2	1:64:A:THR:HG23	5	0.2
(1,2382)	1:69:A:TRP:HZ2	1:127:A:LEU:HG	8	0.2
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG21	6	0.2
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG22	6	0.2
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG23	6	0.2
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG21	6	0.2
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG22	6	0.2
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG23	6	0.2
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB2	3	0.2
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB3	3	0.2
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB2	3	0.2
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB3	3	0.2
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB2	3	0.2
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB3	3	0.2
(1,1857)	1:113:A:VAL:HG11	1:121:A:VAL:HB	8	0.2
(1,1857)	1:113:A:VAL:HG12	1:121:A:VAL:HB	8	0.2
(1,1857)	1:113:A:VAL:HG13	1:121:A:VAL:HB	8	0.2
(1,1614)	1:84:A:ARG:HA	1:84:A:ARG:HD2	7	0.2
(1,1614)	1:84:A:ARG:HA	1:84:A:ARG:HD3	7	0.2
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD11	1	0.2
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD12	1	0.2
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD13	1	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG11	8	0.2
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG12	8	0.2
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG13	8	0.2
(1,808)	1:78:A:VAL:HA	1:81:A:LEU:H	2	0.2
(1,784)	1:89:A:LEU:H	1:147:A:VAL:HB	1	0.2
(2,100)	1:107:A:GLY:O	1:162:A:ASN:N	6	0.19
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	1	0.19
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	7	0.19
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	10	0.19
(2,85)	1:85:A:CYS:O	1:151:A:VAL:H	1	0.19
(2,85)	1:85:A:CYS:O	1:151:A:VAL:H	2	0.19
(2,76)	1:146:A:GLY:N	1:161:A:TRP:O	5	0.19
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	1	0.19
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	7	0.19
(2,45)	1:110:A:LYS:H	1:190:A:PHE:O	2	0.19
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	10	0.19
(2,37)	1:37:A:THR:O	1:90:A:MET:H	9	0.19
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM71	5	0.19
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM72	5	0.19
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM73	5	0.19
(1,3735)	1:179:A:GLN:HG2	1:180:A:LEU:HA	3	0.19
(1,3735)	1:179:A:GLN:HG3	1:180:A:LEU:HA	3	0.19
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG11	9	0.19
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG12	9	0.19
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG13	9	0.19
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG21	9	0.19
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG22	9	0.19
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG23	9	0.19
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG11	9	0.19
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG12	9	0.19
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG13	9	0.19
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG21	9	0.19
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG22	9	0.19
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG23	9	0.19
(1,3251)	1:97:A:LEU:HD11	1:100:A:GLU:HG2	3	0.19
(1,3251)	1:97:A:LEU:HD11	1:100:A:GLU:HG3	3	0.19
(1,3251)	1:97:A:LEU:HD12	1:100:A:GLU:HG2	3	0.19
(1,3251)	1:97:A:LEU:HD12	1:100:A:GLU:HG3	3	0.19
(1,3251)	1:97:A:LEU:HD13	1:100:A:GLU:HG2	3	0.19
(1,3251)	1:97:A:LEU:HD13	1:100:A:GLU:HG3	3	0.19
(1,3251)	1:97:A:LEU:HD21	1:100:A:GLU:HG2	3	0.19
(1,3251)	1:97:A:LEU:HD21	1:100:A:GLU:HG3	3	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3251)	1:97:A:LEU:HD22	1:100:A:GLU:HG2	3	0.19
(1,3251)	1:97:A:LEU:HD22	1:100:A:GLU:HG3	3	0.19
(1,3251)	1:97:A:LEU:HD23	1:100:A:GLU:HG2	3	0.19
(1,3251)	1:97:A:LEU:HD23	1:100:A:GLU:HG3	3	0.19
(1,3171)	1:83:A:LEU:HD21	1:84:A:ARG:HG2	4	0.19
(1,3171)	1:83:A:LEU:HD21	1:84:A:ARG:HG3	4	0.19
(1,3171)	1:83:A:LEU:HD22	1:84:A:ARG:HG2	4	0.19
(1,3171)	1:83:A:LEU:HD22	1:84:A:ARG:HG3	4	0.19
(1,3171)	1:83:A:LEU:HD23	1:84:A:ARG:HG2	4	0.19
(1,3171)	1:83:A:LEU:HD23	1:84:A:ARG:HG3	4	0.19
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD2	2	0.19
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD3	2	0.19
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD2	2	0.19
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD3	2	0.19
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD2	2	0.19
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD3	2	0.19
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD2	3	0.19
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD3	3	0.19
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD2	3	0.19
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD3	3	0.19
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD2	3	0.19
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD3	3	0.19
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD2	5	0.19
(1,2798)	1:8:A:ALA:HB1	1:9:A:PRO:HD3	5	0.19
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD2	5	0.19
(1,2798)	1:8:A:ALA:HB2	1:9:A:PRO:HD3	5	0.19
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD2	5	0.19
(1,2798)	1:8:A:ALA:HB3	1:9:A:PRO:HD3	5	0.19
(1,2759)	1:20:A:LEU:HA	1:22:A:ALA:H	1	0.19
(1,2659)	1:38:A:PHE:HD1	1:59:A:ILE:HG12	8	0.19
(1,2659)	1:38:A:PHE:HD2	1:59:A:ILE:HG12	8	0.19
(1,2602)	1:56:A:LEU:HD21	1:97:A:LEU:HG	9	0.19
(1,2602)	1:56:A:LEU:HD22	1:97:A:LEU:HG	9	0.19
(1,2602)	1:56:A:LEU:HD23	1:97:A:LEU:HG	9	0.19
(1,2357)	1:141:A:ASP:H	1:167:A:LEU:HD11	7	0.19
(1,2357)	1:141:A:ASP:H	1:167:A:LEU:HD12	7	0.19
(1,2357)	1:141:A:ASP:H	1:167:A:LEU:HD13	7	0.19
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG11	2	0.19
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG12	2	0.19
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG13	2	0.19
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG11	2	0.19
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG12	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG13	2	0.19
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG11	2	0.19
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG12	2	0.19
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG13	2	0.19
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD21	3	0.19
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD22	3	0.19
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD23	3	0.19
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD21	3	0.19
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD22	3	0.19
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD23	3	0.19
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD21	3	0.19
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD22	3	0.19
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD23	3	0.19
(1,2042)	1:39:A:TRP:HB3	1:88:A:HIS:HD2	6	0.19
(1,1953)	1:16:A:LEU:HA	1:17:A:ASP:HB2	9	0.19
(1,1953)	1:16:A:LEU:HA	1:17:A:ASP:HB3	9	0.19
(1,1851)	1:195:A:GLU:HG2	1:200:A:PHE:HE1	9	0.19
(1,1851)	1:195:A:GLU:HG2	1:200:A:PHE:HE2	9	0.19
(1,1851)	1:195:A:GLU:HG3	1:200:A:PHE:HE1	9	0.19
(1,1851)	1:195:A:GLU:HG3	1:200:A:PHE:HE2	9	0.19
(1,1784)	1:32:A:LEU:HD21	1:65:A:VAL:HA	1	0.19
(1,1784)	1:32:A:LEU:HD22	1:65:A:VAL:HA	1	0.19
(1,1784)	1:32:A:LEU:HD23	1:65:A:VAL:HA	1	0.19
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG11	7	0.19
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG12	7	0.19
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG13	7	0.19
(1,1330)	1:150:A:SER:HB2	1:157:A:VAL:HB	2	0.19
(1,1082)	1:31:A:PRO:HG2	1:32:A:LEU:H	4	0.19
(1,736)	1:97:A:LEU:H	1:103:A:ASN:HD22	5	0.19
(1,409)	1:164:A:ASN:H	1:167:A:LEU:HD11	10	0.19
(1,409)	1:164:A:ASN:H	1:167:A:LEU:HD12	10	0.19
(1,409)	1:164:A:ASN:H	1:167:A:LEU:HD13	10	0.19
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	3	0.18
(2,97)	1:146:A:GLY:O	1:161:A:TRP:H	9	0.18
(2,87)	1:152:A:ARG:H	1:155:A:GLU:O	7	0.18
(2,85)	1:85:A:CYS:O	1:151:A:VAL:H	3	0.18
(2,42)	1:108:A:VAL:N	1:192:A:LYS:O	8	0.18
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	7	0.18
(2,37)	1:37:A:THR:O	1:90:A:MET:H	4	0.18
(2,37)	1:37:A:THR:O	1:90:A:MET:H	8	0.18
(2,17)	1:66:A:GLN:O	1:70:A:SER:H	2	0.18
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	6	0.18
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	2	0.18
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	2	0.18
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	2	0.18
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM71	5	0.18
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM72	5	0.18
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM73	5	0.18
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM71	5	0.18
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM72	5	0.18
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM73	5	0.18
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG11	8	0.18
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG12	8	0.18
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG13	8	0.18
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG21	8	0.18
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG22	8	0.18
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG23	8	0.18
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG11	8	0.18
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG12	8	0.18
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG13	8	0.18
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG21	8	0.18
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG22	8	0.18
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG23	8	0.18
(1,3588)	1:148:A:SER:HB2	1:161:A:TRP:HE1	1	0.18
(1,3588)	1:148:A:SER:HB3	1:161:A:TRP:HE1	1	0.18
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG11	2	0.18
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG12	2	0.18
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG13	2	0.18
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG21	2	0.18
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG22	2	0.18
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG23	2	0.18
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD11	1	0.18
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD12	1	0.18
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD13	1	0.18
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD21	1	0.18
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD22	1	0.18
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD23	1	0.18
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD11	1	0.18
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD12	1	0.18
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD13	1	0.18
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD21	1	0.18
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD22	1	0.18
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD23	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD11	1	0.18
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD12	1	0.18
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD13	1	0.18
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD21	1	0.18
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD22	1	0.18
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD23	1	0.18
(1,3156)	1:81:A:LEU:HG	1:151:A:VAL:HG11	5	0.18
(1,3156)	1:81:A:LEU:HG	1:151:A:VAL:HG12	5	0.18
(1,3156)	1:81:A:LEU:HG	1:151:A:VAL:HG13	5	0.18
(1,3156)	1:81:A:LEU:HG	1:151:A:VAL:HG21	5	0.18
(1,3156)	1:81:A:LEU:HG	1:151:A:VAL:HG22	5	0.18
(1,3156)	1:81:A:LEU:HG	1:151:A:VAL:HG23	5	0.18
(1,2924)	1:41:A:ASP:HB2	1:56:A:LEU:HB2	2	0.18
(1,2924)	1:41:A:ASP:HB2	1:56:A:LEU:HB3	2	0.18
(1,2924)	1:41:A:ASP:HB3	1:56:A:LEU:HB2	2	0.18
(1,2924)	1:41:A:ASP:HB3	1:56:A:LEU:HB3	2	0.18
(1,2817)	1:30:A:VAL:HG11	1:31:A:PRO:HG3	4	0.18
(1,2817)	1:30:A:VAL:HG12	1:31:A:PRO:HG3	4	0.18
(1,2817)	1:30:A:VAL:HG13	1:31:A:PRO:HG3	4	0.18
(1,2817)	1:30:A:VAL:HG21	1:31:A:PRO:HG3	4	0.18
(1,2817)	1:30:A:VAL:HG22	1:31:A:PRO:HG3	4	0.18
(1,2817)	1:30:A:VAL:HG23	1:31:A:PRO:HG3	4	0.18
(1,2817)	1:30:A:VAL:HG11	1:31:A:PRO:HG3	5	0.18
(1,2817)	1:30:A:VAL:HG12	1:31:A:PRO:HG3	5	0.18
(1,2817)	1:30:A:VAL:HG13	1:31:A:PRO:HG3	5	0.18
(1,2817)	1:30:A:VAL:HG21	1:31:A:PRO:HG3	5	0.18
(1,2817)	1:30:A:VAL:HG22	1:31:A:PRO:HG3	5	0.18
(1,2817)	1:30:A:VAL:HG23	1:31:A:PRO:HG3	5	0.18
(1,2580)	1:60:A:TYR:HD1	1:71:A:VAL:HB	1	0.18
(1,2580)	1:60:A:TYR:HD2	1:71:A:VAL:HB	1	0.18
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD21	6	0.18
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD22	6	0.18
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD23	6	0.18
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD21	6	0.18
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD22	6	0.18
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD23	6	0.18
(1,2446)	1:114:A:PRO:HG3	1:116:A:ASP:H	10	0.18
(1,2382)	1:69:A:TRP:HZ2	1:127:A:LEU:HG	6	0.18
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD11	5	0.18
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD12	5	0.18
(1,2248)	1:179:A:GLN:HB2	1:180:A:LEU:HD13	5	0.18
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD11	5	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD12	5	0.18
(1,2248)	1:179:A:GLN:HB3	1:180:A:LEU:HD13	5	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD11	5	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD12	5	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD13	5	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD11	10	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD12	10	0.18
(1,2244)	1:180:A:LEU:H	1:180:A:LEU:HD13	10	0.18
(1,1986)	1:68:A:PHE:HZ	1:127:A:LEU:HB3	10	0.18
(1,1910)	1:176:A:LYS:HA	1:179:A:GLN:HG3	4	0.18
(1,1794)	1:72:A:TYR:HB3	1:75:A:ILE:HD11	3	0.18
(1,1794)	1:72:A:TYR:HB3	1:75:A:ILE:HD12	3	0.18
(1,1794)	1:72:A:TYR:HB3	1:75:A:ILE:HD13	3	0.18
(1,1692)	1:37:A:THR:HG21	1:59:A:ILE:HB	3	0.18
(1,1692)	1:37:A:THR:HG22	1:59:A:ILE:HB	3	0.18
(1,1692)	1:37:A:THR:HG23	1:59:A:ILE:HB	3	0.18
(1,1467)	1:128:A:ALA:HB1	1:180:A:LEU:HG	2	0.18
(1,1467)	1:128:A:ALA:HB2	1:180:A:LEU:HG	2	0.18
(1,1467)	1:128:A:ALA:HB3	1:180:A:LEU:HG	2	0.18
(1,1420)	1:142:A:ASP:HA	1:167:A:LEU:HD21	9	0.18
(1,1420)	1:142:A:ASP:HA	1:167:A:LEU:HD22	9	0.18
(1,1420)	1:142:A:ASP:HA	1:167:A:LEU:HD23	9	0.18
(1,928)	1:43:A:SER:H	1:84:A:ARG:HD2	7	0.18
(1,928)	1:43:A:SER:H	1:84:A:ARG:HD3	7	0.18
(1,665)	1:109:A:TRP:HE1	1:168:A:VAL:HB	10	0.18
(1,660)	1:66:A:GLN:HA	1:66:A:GLN:HE21	6	0.18
(1,496)	1:115:A:LYS:H	1:115:A:LYS:HD2	2	0.18
(1,495)	1:115:A:LYS:H	1:115:A:LYS:HD3	3	0.18
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	5	0.17
(2,77)	1:89:A:LEU:O	1:147:A:VAL:H	8	0.17
(2,51)	1:117:A:SER:O	1:121:A:VAL:H	1	0.17
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	10	0.17
(2,45)	1:110:A:LYS:H	1:190:A:PHE:O	5	0.17
(2,40)	1:91:A:ARG:N	1:145:A:ILE:O	2	0.17
(2,38)	1:37:A:THR:O	1:90:A:MET:N	2	0.17
(2,37)	1:37:A:THR:O	1:90:A:MET:H	1	0.17
(2,37)	1:37:A:THR:O	1:90:A:MET:H	6	0.17
(2,27)	1:71:A:VAL:O	1:75:A:ILE:H	3	0.17
(1,3823)	1:199:A:ALA:HB1	2:208:A:M7G:H2'	6	0.17
(1,3823)	1:199:A:ALA:HB2	2:208:A:M7G:H2'	6	0.17
(1,3823)	1:199:A:ALA:HB3	2:208:A:M7G:H2'	6	0.17
(1,3823)	1:199:A:ALA:HB1	2:208:A:M7G:H2'	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3823)	1:199:A:ALA:HB2	2:208:A:M7G:H2'	9	0.17
(1,3823)	1:199:A:ALA:HB3	2:208:A:M7G:H2'	9	0.17
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM71	5	0.17
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM72	5	0.17
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM73	5	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG11	6	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG12	6	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG13	6	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG21	6	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG22	6	0.17
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG23	6	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG11	6	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG12	6	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG13	6	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG21	6	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG22	6	0.17
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG23	6	0.17
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG11	10	0.17
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG12	10	0.17
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG13	10	0.17
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG21	10	0.17
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG22	10	0.17
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG23	10	0.17
(1,3395)	1:115:A:LYS:H	1:115:A:LYS:HD2	5	0.17
(1,3395)	1:115:A:LYS:H	1:115:A:LYS:HD3	5	0.17
(1,3377)	1:113:A:VAL:HG11	1:157:A:VAL:H	6	0.17
(1,3377)	1:113:A:VAL:HG12	1:157:A:VAL:H	6	0.17
(1,3377)	1:113:A:VAL:HG13	1:157:A:VAL:H	6	0.17
(1,3377)	1:113:A:VAL:HG21	1:157:A:VAL:H	6	0.17
(1,3377)	1:113:A:VAL:HG22	1:157:A:VAL:H	6	0.17
(1,3377)	1:113:A:VAL:HG23	1:157:A:VAL:H	6	0.17
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG11	4	0.17
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG12	4	0.17
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG13	4	0.17
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG21	4	0.17
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG22	4	0.17
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG23	4	0.17
(1,3166)	1:81:A:LEU:HD11	1:151:A:VAL:HB	10	0.17
(1,3166)	1:81:A:LEU:HD12	1:151:A:VAL:HB	10	0.17
(1,3166)	1:81:A:LEU:HD13	1:151:A:VAL:HB	10	0.17
(1,3166)	1:81:A:LEU:HD21	1:151:A:VAL:HB	10	0.17
(1,3166)	1:81:A:LEU:HD22	1:151:A:VAL:HB	10	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3166)	1:81:A:LEU:HD23	1:151:A:VAL:HB	10	0.17
(1,2810)	1:23:A:LEU:HD11	1:24:A:PRO:HD2	7	0.17
(1,2810)	1:23:A:LEU:HD11	1:24:A:PRO:HD3	7	0.17
(1,2810)	1:23:A:LEU:HD12	1:24:A:PRO:HD2	7	0.17
(1,2810)	1:23:A:LEU:HD12	1:24:A:PRO:HD3	7	0.17
(1,2810)	1:23:A:LEU:HD13	1:24:A:PRO:HD2	7	0.17
(1,2810)	1:23:A:LEU:HD13	1:24:A:PRO:HD3	7	0.17
(1,2810)	1:23:A:LEU:HD21	1:24:A:PRO:HD2	7	0.17
(1,2810)	1:23:A:LEU:HD21	1:24:A:PRO:HD3	7	0.17
(1,2810)	1:23:A:LEU:HD22	1:24:A:PRO:HD2	7	0.17
(1,2810)	1:23:A:LEU:HD22	1:24:A:PRO:HD3	7	0.17
(1,2810)	1:23:A:LEU:HD23	1:24:A:PRO:HD2	7	0.17
(1,2810)	1:23:A:LEU:HD23	1:24:A:PRO:HD3	7	0.17
(1,2764)	1:113:A:VAL:HG11	1:186:A:PHE:HE1	2	0.17
(1,2764)	1:113:A:VAL:HG11	1:186:A:PHE:HE2	2	0.17
(1,2764)	1:113:A:VAL:HG12	1:186:A:PHE:HE1	2	0.17
(1,2764)	1:113:A:VAL:HG12	1:186:A:PHE:HE2	2	0.17
(1,2764)	1:113:A:VAL:HG13	1:186:A:PHE:HE1	2	0.17
(1,2764)	1:113:A:VAL:HG13	1:186:A:PHE:HE2	2	0.17
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	5	0.17
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	5	0.17
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	5	0.17
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	5	0.17
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	5	0.17
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	5	0.17
(1,2602)	1:56:A:LEU:HD21	1:97:A:LEU:HG	5	0.17
(1,2602)	1:56:A:LEU:HD22	1:97:A:LEU:HG	5	0.17
(1,2602)	1:56:A:LEU:HD23	1:97:A:LEU:HG	5	0.17
(1,2547)	1:40:A:LEU:HD21	1:87:A:TYR:HE1	7	0.17
(1,2547)	1:40:A:LEU:HD21	1:87:A:TYR:HE2	7	0.17
(1,2547)	1:40:A:LEU:HD22	1:87:A:TYR:HE1	7	0.17
(1,2547)	1:40:A:LEU:HD22	1:87:A:TYR:HE2	7	0.17
(1,2547)	1:40:A:LEU:HD23	1:87:A:TYR:HE1	7	0.17
(1,2547)	1:40:A:LEU:HD23	1:87:A:TYR:HE2	7	0.17
(1,2457)	1:113:A:VAL:HG21	1:186:A:PHE:HE1	9	0.17
(1,2457)	1:113:A:VAL:HG21	1:186:A:PHE:HE2	9	0.17
(1,2457)	1:113:A:VAL:HG22	1:186:A:PHE:HE1	9	0.17
(1,2457)	1:113:A:VAL:HG22	1:186:A:PHE:HE2	9	0.17
(1,2457)	1:113:A:VAL:HG23	1:186:A:PHE:HE1	9	0.17
(1,2457)	1:113:A:VAL:HG23	1:186:A:PHE:HE2	9	0.17
(1,2370)	1:129:A:THR:HG21	1:160:A:VAL:HG11	3	0.17
(1,2370)	1:129:A:THR:HG21	1:160:A:VAL:HG12	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2370)	1:129:A:THR:HG21	1:160:A:VAL:HG13	3	0.17
(1,2370)	1:129:A:THR:HG21	1:160:A:VAL:HG21	3	0.17
(1,2370)	1:129:A:THR:HG21	1:160:A:VAL:HG22	3	0.17
(1,2370)	1:129:A:THR:HG21	1:160:A:VAL:HG23	3	0.17
(1,2370)	1:129:A:THR:HG22	1:160:A:VAL:HG11	3	0.17
(1,2370)	1:129:A:THR:HG22	1:160:A:VAL:HG12	3	0.17
(1,2370)	1:129:A:THR:HG22	1:160:A:VAL:HG13	3	0.17
(1,2370)	1:129:A:THR:HG22	1:160:A:VAL:HG21	3	0.17
(1,2370)	1:129:A:THR:HG22	1:160:A:VAL:HG22	3	0.17
(1,2370)	1:129:A:THR:HG22	1:160:A:VAL:HG23	3	0.17
(1,2370)	1:129:A:THR:HG23	1:160:A:VAL:HG11	3	0.17
(1,2370)	1:129:A:THR:HG23	1:160:A:VAL:HG12	3	0.17
(1,2370)	1:129:A:THR:HG23	1:160:A:VAL:HG13	3	0.17
(1,2370)	1:129:A:THR:HG23	1:160:A:VAL:HG21	3	0.17
(1,2370)	1:129:A:THR:HG23	1:160:A:VAL:HG22	3	0.17
(1,2370)	1:129:A:THR:HG23	1:160:A:VAL:HG23	3	0.17
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG11	1	0.17
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG12	1	0.17
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG13	1	0.17
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG11	1	0.17
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG12	1	0.17
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG13	1	0.17
(1,2300)	1:139:A:ALA:HB1	1:170:A:GLU:HG2	9	0.17
(1,2300)	1:139:A:ALA:HB1	1:170:A:GLU:HG3	9	0.17
(1,2300)	1:139:A:ALA:HB2	1:170:A:GLU:HG2	9	0.17
(1,2300)	1:139:A:ALA:HB2	1:170:A:GLU:HG3	9	0.17
(1,2300)	1:139:A:ALA:HB3	1:170:A:GLU:HG2	9	0.17
(1,2300)	1:139:A:ALA:HB3	1:170:A:GLU:HG3	9	0.17
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD11	10	0.17
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD12	10	0.17
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD13	10	0.17
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD11	10	0.17
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD12	10	0.17
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD13	10	0.17
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD11	10	0.17
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD12	10	0.17
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD13	10	0.17
(1,1910)	1:176:A:LYS:HA	1:179:A:GLN:HG3	1	0.17
(1,1886)	1:60:A:TYR:HB2	1:71:A:VAL:HG11	6	0.17
(1,1886)	1:60:A:TYR:HB2	1:71:A:VAL:HG12	6	0.17
(1,1886)	1:60:A:TYR:HB2	1:71:A:VAL:HG13	6	0.17
(1,1858)	1:113:A:VAL:HG11	1:156:A:ASP:HB2	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1858)	1:113:A:VAL:HG12	1:156:A:ASP:HB2	7	0.17
(1,1858)	1:113:A:VAL:HG13	1:156:A:ASP:HB2	7	0.17
(1,1851)	1:195:A:GLU:HG2	1:200:A:PHE:HE1	1	0.17
(1,1851)	1:195:A:GLU:HG2	1:200:A:PHE:HE2	1	0.17
(1,1851)	1:195:A:GLU:HG3	1:200:A:PHE:HE1	1	0.17
(1,1851)	1:195:A:GLU:HG3	1:200:A:PHE:HE2	1	0.17
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB1	8	0.17
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB2	8	0.17
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB3	8	0.17
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD2	6	0.17
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD3	6	0.17
(1,1529)	1:113:A:VAL:HB	1:186:A:PHE:HE1	3	0.17
(1,1529)	1:113:A:VAL:HB	1:186:A:PHE:HE2	3	0.17
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG11	8	0.17
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG12	8	0.17
(1,1382)	1:126:A:LEU:H	1:147:A:VAL:HG13	8	0.17
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG21	5	0.17
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG22	5	0.17
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG23	5	0.17
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG21	5	0.17
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG22	5	0.17
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG23	5	0.17
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG21	5	0.17
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG22	5	0.17
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG23	5	0.17
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG11	2	0.17
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG12	2	0.17
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG13	2	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD11	5	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD12	5	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD13	5	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD11	8	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD12	8	0.17
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD13	8	0.17
(1,928)	1:43:A:SER:H	1:84:A:ARG:HD2	6	0.17
(1,928)	1:43:A:SER:H	1:84:A:ARG:HD3	6	0.17
(1,646)	1:110:A:LYS:HD2	1:111:A:MET:H	6	0.17
(1,646)	1:110:A:LYS:HD3	1:111:A:MET:H	6	0.17
(1,629)	1:123:A:LYS:HE2	1:124:A:GLU:H	1	0.17
(1,629)	1:123:A:LYS:HE3	1:124:A:GLU:H	1	0.17
(1,629)	1:123:A:LYS:HE2	1:124:A:GLU:H	6	0.17
(1,629)	1:123:A:LYS:HE3	1:124:A:GLU:H	6	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,601)	1:129:A:THR:HG21	1:134:A:PHE:H	4	0.17
(1,601)	1:129:A:THR:HG22	1:134:A:PHE:H	4	0.17
(1,601)	1:129:A:THR:HG23	1:134:A:PHE:H	4	0.17
(1,496)	1:115:A:LYS:H	1:115:A:LYS:HD2	5	0.17
(2,96)	1:109:A:TRP:O	1:160:A:VAL:N	2	0.16
(2,96)	1:109:A:TRP:O	1:160:A:VAL:N	9	0.16
(2,86)	1:85:A:CYS:O	1:151:A:VAL:N	2	0.16
(2,86)	1:85:A:CYS:O	1:151:A:VAL:N	3	0.16
(2,86)	1:85:A:CYS:O	1:151:A:VAL:N	4	0.16
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	3	0.16
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	9	0.16
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	10	0.16
(2,69)	1:126:A:LEU:O	1:130:A:ILE:H	8	0.16
(2,47)	1:111:A:MET:H	1:158:A:VAL:O	8	0.16
(2,39)	1:91:A:ARG:H	1:145:A:ILE:O	8	0.16
(2,29)	1:41:A:ASP:O	1:86:A:SER:H	2	0.16
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	4	0.16
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	8	0.16
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	8	0.16
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	8	0.16
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM71	10	0.16
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM72	10	0.16
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM73	10	0.16
(1,3604)	1:150:A:SER:H	1:157:A:VAL:HG11	9	0.16
(1,3604)	1:150:A:SER:H	1:157:A:VAL:HG12	9	0.16
(1,3604)	1:150:A:SER:H	1:157:A:VAL:HG13	9	0.16
(1,3604)	1:150:A:SER:H	1:157:A:VAL:HG21	9	0.16
(1,3604)	1:150:A:SER:H	1:157:A:VAL:HG22	9	0.16
(1,3604)	1:150:A:SER:H	1:157:A:VAL:HG23	9	0.16
(1,3581)	1:148:A:SER:H	1:158:A:VAL:HG11	5	0.16
(1,3581)	1:148:A:SER:H	1:158:A:VAL:HG12	5	0.16
(1,3581)	1:148:A:SER:H	1:158:A:VAL:HG13	5	0.16
(1,3581)	1:148:A:SER:H	1:158:A:VAL:HG21	5	0.16
(1,3581)	1:148:A:SER:H	1:158:A:VAL:HG22	5	0.16
(1,3581)	1:148:A:SER:H	1:158:A:VAL:HG23	5	0.16
(1,3259)	1:100:A:GLU:H	1:100:A:GLU:HG2	2	0.16
(1,3259)	1:100:A:GLU:H	1:100:A:GLU:HG3	2	0.16
(1,3251)	1:97:A:LEU:HD11	1:100:A:GLU:HG2	10	0.16
(1,3251)	1:97:A:LEU:HD11	1:100:A:GLU:HG3	10	0.16
(1,3251)	1:97:A:LEU:HD12	1:100:A:GLU:HG2	10	0.16
(1,3251)	1:97:A:LEU:HD12	1:100:A:GLU:HG3	10	0.16
(1,3251)	1:97:A:LEU:HD13	1:100:A:GLU:HG2	10	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3251)	1:97:A:LEU:HD13	1:100:A:GLU:HG3	10	0.16
(1,3251)	1:97:A:LEU:HD21	1:100:A:GLU:HG2	10	0.16
(1,3251)	1:97:A:LEU:HD21	1:100:A:GLU:HG3	10	0.16
(1,3251)	1:97:A:LEU:HD22	1:100:A:GLU:HG2	10	0.16
(1,3251)	1:97:A:LEU:HD22	1:100:A:GLU:HG3	10	0.16
(1,3251)	1:97:A:LEU:HD23	1:100:A:GLU:HG2	10	0.16
(1,3251)	1:97:A:LEU:HD23	1:100:A:GLU:HG3	10	0.16
(1,3158)	1:81:A:LEU:HD11	1:85:A:CYS:H	1	0.16
(1,3158)	1:81:A:LEU:HD12	1:85:A:CYS:H	1	0.16
(1,3158)	1:81:A:LEU:HD13	1:85:A:CYS:H	1	0.16
(1,3158)	1:81:A:LEU:HD21	1:85:A:CYS:H	1	0.16
(1,3158)	1:81:A:LEU:HD22	1:85:A:CYS:H	1	0.16
(1,3158)	1:81:A:LEU:HD23	1:85:A:CYS:H	1	0.16
(1,2817)	1:30:A:VAL:HG11	1:31:A:PRO:HG3	8	0.16
(1,2817)	1:30:A:VAL:HG12	1:31:A:PRO:HG3	8	0.16
(1,2817)	1:30:A:VAL:HG13	1:31:A:PRO:HG3	8	0.16
(1,2817)	1:30:A:VAL:HG21	1:31:A:PRO:HG3	8	0.16
(1,2817)	1:30:A:VAL:HG22	1:31:A:PRO:HG3	8	0.16
(1,2817)	1:30:A:VAL:HG23	1:31:A:PRO:HG3	8	0.16
(1,2803)	1:20:A:LEU:HA	1:20:A:LEU:HD11	6	0.16
(1,2803)	1:20:A:LEU:HA	1:20:A:LEU:HD12	6	0.16
(1,2803)	1:20:A:LEU:HA	1:20:A:LEU:HD13	6	0.16
(1,2803)	1:20:A:LEU:HA	1:20:A:LEU:HD21	6	0.16
(1,2803)	1:20:A:LEU:HA	1:20:A:LEU:HD22	6	0.16
(1,2803)	1:20:A:LEU:HA	1:20:A:LEU:HD23	6	0.16
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	7	0.16
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	7	0.16
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	7	0.16
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	7	0.16
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	7	0.16
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	7	0.16
(1,2629)	1:42:A:ARG:HG2	1:43:A:SER:HA	5	0.16
(1,2629)	1:42:A:ARG:HG3	1:43:A:SER:HA	5	0.16
(1,2602)	1:56:A:LEU:HD21	1:97:A:LEU:HG	6	0.16
(1,2602)	1:56:A:LEU:HD22	1:97:A:LEU:HG	6	0.16
(1,2602)	1:56:A:LEU:HD23	1:97:A:LEU:HG	6	0.16
(1,2580)	1:60:A:TYR:HD1	1:71:A:VAL:HB	3	0.16
(1,2580)	1:60:A:TYR:HD2	1:71:A:VAL:HB	3	0.16
(1,2558)	1:78:A:VAL:HA	1:81:A:LEU:HG	2	0.16
(1,2382)	1:69:A:TRP:HZ2	1:127:A:LEU:HG	10	0.16
(1,2341)	1:83:A:LEU:HD11	1:152:A:ARG:HA	8	0.16
(1,2341)	1:83:A:LEU:HD12	1:152:A:ARG:HA	8	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2341)	1:83:A:LEU:HD13	1:152:A:ARG:HA	8	0.16
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG21	7	0.16
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG22	7	0.16
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG23	7	0.16
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG21	7	0.16
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG22	7	0.16
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG23	7	0.16
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD21	6	0.16
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD22	6	0.16
(1,2175)	1:53:A:ALA:HB1	1:97:A:LEU:HD23	6	0.16
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD21	6	0.16
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD22	6	0.16
(1,2175)	1:53:A:ALA:HB2	1:97:A:LEU:HD23	6	0.16
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD21	6	0.16
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD22	6	0.16
(1,2175)	1:53:A:ALA:HB3	1:97:A:LEU:HD23	6	0.16
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG21	3	0.16
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG22	3	0.16
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG23	3	0.16
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG21	3	0.16
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG22	3	0.16
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG23	3	0.16
(1,2074)	1:39:A:TRP:HH2	1:58:A:LYS:HD2	2	0.16
(1,2074)	1:39:A:TRP:HH2	1:58:A:LYS:HD3	2	0.16
(1,1972)	1:72:A:TYR:HE1	1:123:A:LYS:HB2	1	0.16
(1,1972)	1:72:A:TYR:HE2	1:123:A:LYS:HB2	1	0.16
(1,1914)	1:35:A:PRO:HA	1:63:A:GLN:HG2	5	0.16
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD21	3	0.16
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD22	3	0.16
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD23	3	0.16
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD21	3	0.16
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD22	3	0.16
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD23	3	0.16
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	3	0.16
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	3	0.16
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	3	0.16
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB1	9	0.16
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB2	9	0.16
(1,1722)	1:114:A:PRO:HG3	1:185:A:ALA:HB3	9	0.16
(1,1595)	1:90:A:MET:HE1	1:161:A:TRP:HZ2	1	0.16
(1,1595)	1:90:A:MET:HE2	1:161:A:TRP:HZ2	1	0.16
(1,1595)	1:90:A:MET:HE3	1:161:A:TRP:HZ2	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1508)	1:118:A:THR:HG21	1:121:A:VAL:HB	8	0.16
(1,1508)	1:118:A:THR:HG22	1:121:A:VAL:HB	8	0.16
(1,1508)	1:118:A:THR:HG23	1:121:A:VAL:HB	8	0.16
(1,1368)	1:122:A:TRP:HH2	1:147:A:VAL:HB	1	0.16
(1,1331)	1:150:A:SER:HB3	1:157:A:VAL:HB	1	0.16
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD11	10	0.16
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD12	10	0.16
(1,1243)	1:65:A:VAL:HA	1:130:A:ILE:HD13	10	0.16
(1,915)	1:40:A:LEU:H	1:88:A:HIS:HD2	8	0.16
(1,814)	1:81:A:LEU:H	1:81:A:LEU:HD21	6	0.16
(1,814)	1:81:A:LEU:H	1:81:A:LEU:HD22	6	0.16
(1,814)	1:81:A:LEU:H	1:81:A:LEU:HD23	6	0.16
(1,808)	1:78:A:VAL:HA	1:81:A:LEU:H	6	0.16
(1,743)	1:94:A:ARG:H	1:94:A:ARG:HG2	6	0.16
(1,743)	1:94:A:ARG:H	1:94:A:ARG:HG3	6	0.16
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG21	9	0.16
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG22	9	0.16
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG23	9	0.16
(1,601)	1:129:A:THR:HG21	1:134:A:PHE:H	8	0.16
(1,601)	1:129:A:THR:HG22	1:134:A:PHE:H	8	0.16
(1,601)	1:129:A:THR:HG23	1:134:A:PHE:H	8	0.16
(1,426)	1:110:A:LYS:HD2	1:158:A:VAL:H	6	0.16
(1,426)	1:110:A:LYS:HD3	1:158:A:VAL:H	6	0.16
(1,224)	1:113:A:VAL:HB	1:118:A:THR:H	1	0.16
(1,196)	1:181:A:LEU:H	1:182:A:PRO:HD2	4	0.16
(1,145)	1:186:A:PHE:H	1:189:A:VAL:HG11	4	0.16
(1,145)	1:186:A:PHE:H	1:189:A:VAL:HG12	4	0.16
(1,145)	1:186:A:PHE:H	1:189:A:VAL:HG13	4	0.16
(1,145)	1:186:A:PHE:H	1:189:A:VAL:HG21	4	0.16
(1,145)	1:186:A:PHE:H	1:189:A:VAL:HG22	4	0.16
(1,145)	1:186:A:PHE:H	1:189:A:VAL:HG23	4	0.16
(2,101)	1:165:A:ALA:O	1:168:A:VAL:H	4	0.15
(2,86)	1:85:A:CYS:O	1:151:A:VAL:N	1	0.15
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	1	0.15
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	6	0.15
(2,45)	1:110:A:LYS:H	1:190:A:PHE:O	6	0.15
(2,45)	1:110:A:LYS:H	1:190:A:PHE:O	10	0.15
(2,42)	1:108:A:VAL:N	1:192:A:LYS:O	7	0.15
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	9	0.15
(2,40)	1:91:A:ARG:N	1:145:A:ILE:O	4	0.15
(2,38)	1:37:A:THR:O	1:90:A:MET:N	8	0.15
(2,37)	1:37:A:THR:O	1:90:A:MET:H	3	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:41:A:ASP:O	1:86:A:SER:H	3	0.15
(2,27)	1:71:A:VAL:O	1:75:A:ILE:H	1	0.15
(2,6)	1:38:A:PHE:N	1:60:A:TYR:O	2	0.15
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM71	8	0.15
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM72	8	0.15
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM73	8	0.15
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM71	8	0.15
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM72	8	0.15
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM73	8	0.15
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM71	8	0.15
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM72	8	0.15
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM73	8	0.15
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM71	2	0.15
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM72	2	0.15
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM73	2	0.15
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM71	2	0.15
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM72	2	0.15
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM73	2	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG11	5	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG12	5	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG13	5	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG21	5	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG22	5	0.15
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG23	5	0.15
(1,3487)	1:126:A:LEU:HD11	1:147:A:VAL:HB	5	0.15
(1,3487)	1:126:A:LEU:HD12	1:147:A:VAL:HB	5	0.15
(1,3487)	1:126:A:LEU:HD13	1:147:A:VAL:HB	5	0.15
(1,3487)	1:126:A:LEU:HD21	1:147:A:VAL:HB	5	0.15
(1,3487)	1:126:A:LEU:HD22	1:147:A:VAL:HB	5	0.15
(1,3487)	1:126:A:LEU:HD23	1:147:A:VAL:HB	5	0.15
(1,3395)	1:115:A:LYS:H	1:115:A:LYS:HD2	1	0.15
(1,3395)	1:115:A:LYS:H	1:115:A:LYS:HD3	1	0.15
(1,3341)	1:111:A:MET:HG2	1:186:A:PHE:HE1	9	0.15
(1,3341)	1:111:A:MET:HG2	1:186:A:PHE:HE2	9	0.15
(1,3341)	1:111:A:MET:HG3	1:186:A:PHE:HE1	9	0.15
(1,3341)	1:111:A:MET:HG3	1:186:A:PHE:HE2	9	0.15
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD11	2	0.15
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD12	2	0.15
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD13	2	0.15
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD11	2	0.15
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD12	2	0.15
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD13	2	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD11	2	0.15
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD12	2	0.15
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD13	2	0.15
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD11	2	0.15
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD12	2	0.15
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD13	2	0.15
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD11	2	0.15
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD12	2	0.15
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD13	2	0.15
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD11	2	0.15
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD12	2	0.15
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD13	2	0.15
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG11	10	0.15
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG12	10	0.15
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG13	10	0.15
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG21	10	0.15
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG22	10	0.15
(1,3175)	1:85:A:CYS:H	1:151:A:VAL:HG23	10	0.15
(1,3167)	1:81:A:LEU:HD11	1:151:A:VAL:HG11	9	0.15
(1,3167)	1:81:A:LEU:HD11	1:151:A:VAL:HG12	9	0.15
(1,3167)	1:81:A:LEU:HD11	1:151:A:VAL:HG13	9	0.15
(1,3167)	1:81:A:LEU:HD11	1:151:A:VAL:HG21	9	0.15
(1,3167)	1:81:A:LEU:HD11	1:151:A:VAL:HG22	9	0.15
(1,3167)	1:81:A:LEU:HD11	1:151:A:VAL:HG23	9	0.15
(1,3167)	1:81:A:LEU:HD12	1:151:A:VAL:HG11	9	0.15
(1,3167)	1:81:A:LEU:HD12	1:151:A:VAL:HG12	9	0.15
(1,3167)	1:81:A:LEU:HD12	1:151:A:VAL:HG13	9	0.15
(1,3167)	1:81:A:LEU:HD12	1:151:A:VAL:HG21	9	0.15
(1,3167)	1:81:A:LEU:HD12	1:151:A:VAL:HG22	9	0.15
(1,3167)	1:81:A:LEU:HD12	1:151:A:VAL:HG23	9	0.15
(1,3167)	1:81:A:LEU:HD13	1:151:A:VAL:HG11	9	0.15
(1,3167)	1:81:A:LEU:HD13	1:151:A:VAL:HG12	9	0.15
(1,3167)	1:81:A:LEU:HD13	1:151:A:VAL:HG13	9	0.15
(1,3167)	1:81:A:LEU:HD13	1:151:A:VAL:HG21	9	0.15
(1,3167)	1:81:A:LEU:HD13	1:151:A:VAL:HG22	9	0.15
(1,3167)	1:81:A:LEU:HD13	1:151:A:VAL:HG23	9	0.15
(1,3167)	1:81:A:LEU:HD21	1:151:A:VAL:HG11	9	0.15
(1,3167)	1:81:A:LEU:HD21	1:151:A:VAL:HG12	9	0.15
(1,3167)	1:81:A:LEU:HD21	1:151:A:VAL:HG13	9	0.15
(1,3167)	1:81:A:LEU:HD21	1:151:A:VAL:HG21	9	0.15
(1,3167)	1:81:A:LEU:HD21	1:151:A:VAL:HG22	9	0.15
(1,3167)	1:81:A:LEU:HD21	1:151:A:VAL:HG23	9	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3167)	1:81:A:LEU:HD22	1:151:A:VAL:HG11	9	0.15
(1,3167)	1:81:A:LEU:HD22	1:151:A:VAL:HG12	9	0.15
(1,3167)	1:81:A:LEU:HD22	1:151:A:VAL:HG13	9	0.15
(1,3167)	1:81:A:LEU:HD22	1:151:A:VAL:HG21	9	0.15
(1,3167)	1:81:A:LEU:HD22	1:151:A:VAL:HG22	9	0.15
(1,3167)	1:81:A:LEU:HD22	1:151:A:VAL:HG23	9	0.15
(1,3167)	1:81:A:LEU:HD23	1:151:A:VAL:HG11	9	0.15
(1,3167)	1:81:A:LEU:HD23	1:151:A:VAL:HG12	9	0.15
(1,3167)	1:81:A:LEU:HD23	1:151:A:VAL:HG13	9	0.15
(1,3167)	1:81:A:LEU:HD23	1:151:A:VAL:HG21	9	0.15
(1,3167)	1:81:A:LEU:HD23	1:151:A:VAL:HG22	9	0.15
(1,3167)	1:81:A:LEU:HD23	1:151:A:VAL:HG23	9	0.15
(1,3158)	1:81:A:LEU:HD11	1:85:A:CYS:H	3	0.15
(1,3158)	1:81:A:LEU:HD12	1:85:A:CYS:H	3	0.15
(1,3158)	1:81:A:LEU:HD13	1:85:A:CYS:H	3	0.15
(1,3158)	1:81:A:LEU:HD21	1:85:A:CYS:H	3	0.15
(1,3158)	1:81:A:LEU:HD22	1:85:A:CYS:H	3	0.15
(1,3158)	1:81:A:LEU:HD23	1:85:A:CYS:H	3	0.15
(1,3158)	1:81:A:LEU:HD11	1:85:A:CYS:H	8	0.15
(1,3158)	1:81:A:LEU:HD12	1:85:A:CYS:H	8	0.15
(1,3158)	1:81:A:LEU:HD13	1:85:A:CYS:H	8	0.15
(1,3158)	1:81:A:LEU:HD21	1:85:A:CYS:H	8	0.15
(1,3158)	1:81:A:LEU:HD22	1:85:A:CYS:H	8	0.15
(1,3158)	1:81:A:LEU:HD23	1:85:A:CYS:H	8	0.15
(1,3029)	1:62:A:VAL:HG11	1:67:A:ILE:HB	1	0.15
(1,3029)	1:62:A:VAL:HG12	1:67:A:ILE:HB	1	0.15
(1,3029)	1:62:A:VAL:HG13	1:67:A:ILE:HB	1	0.15
(1,3029)	1:62:A:VAL:HG21	1:67:A:ILE:HB	1	0.15
(1,3029)	1:62:A:VAL:HG22	1:67:A:ILE:HB	1	0.15
(1,3029)	1:62:A:VAL:HG23	1:67:A:ILE:HB	1	0.15
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	1	0.15
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	1	0.15
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	1	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	1	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	1	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	1	0.15
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	8	0.15
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	8	0.15
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	8	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	8	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	8	0.15
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2638)	1:117:A:SER:HA	1:184:A:ILE:HA	4	0.15
(1,2558)	1:78:A:VAL:HA	1:81:A:LEU:HG	6	0.15
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD21	4	0.15
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD22	4	0.15
(1,2372)	1:128:A:ALA:HB1	1:180:A:LEU:HD23	4	0.15
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD21	4	0.15
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD22	4	0.15
(1,2372)	1:128:A:ALA:HB2	1:180:A:LEU:HD23	4	0.15
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD21	4	0.15
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD22	4	0.15
(1,2372)	1:128:A:ALA:HB3	1:180:A:LEU:HD23	4	0.15
(1,2341)	1:83:A:LEU:HD11	1:152:A:ARG:HA	6	0.15
(1,2341)	1:83:A:LEU:HD12	1:152:A:ARG:HA	6	0.15
(1,2341)	1:83:A:LEU:HD13	1:152:A:ARG:HA	6	0.15
(1,2333)	1:110:A:LYS:HD2	1:159:A:GLN:HA	6	0.15
(1,2333)	1:110:A:LYS:HD3	1:159:A:GLN:HA	6	0.15
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD11	6	0.15
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD12	6	0.15
(1,2202)	1:59:A:ILE:HD11	1:75:A:ILE:HD13	6	0.15
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD11	6	0.15
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD12	6	0.15
(1,2202)	1:59:A:ILE:HD12	1:75:A:ILE:HD13	6	0.15
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD11	6	0.15
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD12	6	0.15
(1,2202)	1:59:A:ILE:HD13	1:75:A:ILE:HD13	6	0.15
(1,2180)	1:108:A:VAL:HB	1:159:A:GLN:HA	1	0.15
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG21	3	0.15
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG22	3	0.15
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG23	3	0.15
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG21	4	0.15
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG22	4	0.15
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG23	4	0.15
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	7	0.15
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	7	0.15
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	7	0.15
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	8	0.15
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	8	0.15
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	8	0.15
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	9	0.15
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	9	0.15
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	9	0.15
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	10	0.15
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	10	0.15
(1,1582)	1:37:A:THR:HG21	1:93:A:GLU:HA	3	0.15
(1,1582)	1:37:A:THR:HG22	1:93:A:GLU:HA	3	0.15
(1,1582)	1:37:A:THR:HG23	1:93:A:GLU:HA	3	0.15
(1,1573)	1:104:A:ALA:HB1	1:200:A:PHE:HZ	4	0.15
(1,1573)	1:104:A:ALA:HB2	1:200:A:PHE:HZ	4	0.15
(1,1573)	1:104:A:ALA:HB3	1:200:A:PHE:HZ	4	0.15
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD1	1	0.15
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD2	1	0.15
(1,1332)	1:150:A:SER:H	1:157:A:VAL:HB	1	0.15
(1,1259)	1:134:A:PHE:HE1	1:173:A:VAL:HA	10	0.15
(1,1259)	1:134:A:PHE:HE2	1:173:A:VAL:HA	10	0.15
(1,659)	1:28:A:GLY:HA2	1:66:A:GLN:HE21	6	0.15
(1,659)	1:28:A:GLY:HA3	1:66:A:GLN:HE21	6	0.15
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG21	7	0.15
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG22	7	0.15
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG23	7	0.15
(1,570)	1:139:A:ALA:H	1:168:A:VAL:HA	1	0.15
(2,100)	1:107:A:GLY:O	1:162:A:ASN:N	3	0.14
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	4	0.14
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	7	0.14
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	8	0.14
(2,97)	1:146:A:GLY:O	1:161:A:TRP:H	2	0.14
(2,85)	1:85:A:CYS:O	1:151:A:VAL:H	9	0.14
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	10	0.14
(2,70)	1:126:A:LEU:O	1:130:A:ILE:N	8	0.14
(2,69)	1:126:A:LEU:O	1:130:A:ILE:H	3	0.14
(2,69)	1:126:A:LEU:O	1:130:A:ILE:H	4	0.14
(2,51)	1:117:A:SER:O	1:121:A:VAL:H	4	0.14
(2,51)	1:117:A:SER:O	1:121:A:VAL:H	10	0.14
(2,48)	1:111:A:MET:N	1:158:A:VAL:O	2	0.14
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	3	0.14
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	4	0.14
(2,40)	1:91:A:ARG:N	1:145:A:ILE:O	6	0.14
(2,39)	1:91:A:ARG:H	1:145:A:ILE:O	5	0.14
(2,37)	1:37:A:THR:O	1:90:A:MET:H	5	0.14
(2,37)	1:37:A:THR:O	1:90:A:MET:H	10	0.14
(2,18)	1:66:A:GLN:O	1:70:A:SER:N	2	0.14
(2,6)	1:38:A:PHE:N	1:60:A:TYR:O	6	0.14
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	3	0.14
(1,3826)	1:98:A:TRP:HH2	1:161:A:TRP:HZ3	1	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3818)	1:98:A:TRP:HZ3	2:208:A:M7G:H2'	3	0.14
(1,3803)	1:47:A:ALA:HB1	2:208:A:M7G:H1'	9	0.14
(1,3803)	1:47:A:ALA:HB2	2:208:A:M7G:H1'	9	0.14
(1,3803)	1:47:A:ALA:HB3	2:208:A:M7G:H1'	9	0.14
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG11	4	0.14
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG12	4	0.14
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG13	4	0.14
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG21	4	0.14
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG22	4	0.14
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG23	4	0.14
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG11	4	0.14
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG12	4	0.14
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG13	4	0.14
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG21	4	0.14
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG22	4	0.14
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG23	4	0.14
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG11	3	0.14
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG12	3	0.14
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG13	3	0.14
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG21	3	0.14
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG22	3	0.14
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG23	3	0.14
(1,3547)	1:142:A:ASP:HA	1:163:A:VAL:HG11	6	0.14
(1,3547)	1:142:A:ASP:HA	1:163:A:VAL:HG12	6	0.14
(1,3547)	1:142:A:ASP:HA	1:163:A:VAL:HG13	6	0.14
(1,3547)	1:142:A:ASP:HA	1:163:A:VAL:HG21	6	0.14
(1,3547)	1:142:A:ASP:HA	1:163:A:VAL:HG22	6	0.14
(1,3547)	1:142:A:ASP:HA	1:163:A:VAL:HG23	6	0.14
(1,3375)	1:113:A:VAL:HG11	1:156:A:ASP:HB2	7	0.14
(1,3375)	1:113:A:VAL:HG12	1:156:A:ASP:HB2	7	0.14
(1,3375)	1:113:A:VAL:HG13	1:156:A:ASP:HB2	7	0.14
(1,3375)	1:113:A:VAL:HG21	1:156:A:ASP:HB2	7	0.14
(1,3375)	1:113:A:VAL:HG22	1:156:A:ASP:HB2	7	0.14
(1,3375)	1:113:A:VAL:HG23	1:156:A:ASP:HB2	7	0.14
(1,3313)	1:108:A:VAL:HG11	1:194:A:HIS:HE1	1	0.14
(1,3313)	1:108:A:VAL:HG12	1:194:A:HIS:HE1	1	0.14
(1,3313)	1:108:A:VAL:HG13	1:194:A:HIS:HE1	1	0.14
(1,3313)	1:108:A:VAL:HG21	1:194:A:HIS:HE1	1	0.14
(1,3313)	1:108:A:VAL:HG22	1:194:A:HIS:HE1	1	0.14
(1,3313)	1:108:A:VAL:HG23	1:194:A:HIS:HE1	1	0.14
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD11	8	0.14
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD12	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD13	8	0.14
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD11	8	0.14
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD12	8	0.14
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD13	8	0.14
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD11	8	0.14
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD12	8	0.14
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD13	8	0.14
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD11	8	0.14
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD12	8	0.14
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD13	8	0.14
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD11	8	0.14
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD12	8	0.14
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD13	8	0.14
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD11	8	0.14
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD12	8	0.14
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD13	8	0.14
(1,3275)	1:105:A:LYS:H	1:105:A:LYS:HG2	9	0.14
(1,3275)	1:105:A:LYS:H	1:105:A:LYS:HG3	9	0.14
(1,2817)	1:30:A:VAL:HG11	1:31:A:PRO:HG3	10	0.14
(1,2817)	1:30:A:VAL:HG12	1:31:A:PRO:HG3	10	0.14
(1,2817)	1:30:A:VAL:HG13	1:31:A:PRO:HG3	10	0.14
(1,2817)	1:30:A:VAL:HG21	1:31:A:PRO:HG3	10	0.14
(1,2817)	1:30:A:VAL:HG22	1:31:A:PRO:HG3	10	0.14
(1,2817)	1:30:A:VAL:HG23	1:31:A:PRO:HG3	10	0.14
(1,2712)	1:39:A:TRP:HZ2	1:58:A:LYS:HE3	7	0.14
(1,2638)	1:117:A:SER:HA	1:184:A:ILE:HA	5	0.14
(1,2482)	1:110:A:LYS:HB2	1:110:A:LYS:HE2	9	0.14
(1,2482)	1:110:A:LYS:HB2	1:110:A:LYS:HE3	9	0.14
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG11	4	0.14
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG12	4	0.14
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG13	4	0.14
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG11	4	0.14
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG12	4	0.14
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG13	4	0.14
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG11	9	0.14
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG12	9	0.14
(1,2346)	1:129:A:THR:HG21	1:147:A:VAL:HG13	9	0.14
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG11	9	0.14
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG12	9	0.14
(1,2346)	1:129:A:THR:HG22	1:147:A:VAL:HG13	9	0.14
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG11	9	0.14
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG12	9	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2346)	1:129:A:THR:HG23	1:147:A:VAL:HG13	9	0.14
(1,2177)	1:50:A:ALA:HB1	1:51:A:GLU:HG2	4	0.14
(1,2177)	1:50:A:ALA:HB1	1:51:A:GLU:HG3	4	0.14
(1,2177)	1:50:A:ALA:HB2	1:51:A:GLU:HG2	4	0.14
(1,2177)	1:50:A:ALA:HB2	1:51:A:GLU:HG3	4	0.14
(1,2177)	1:50:A:ALA:HB3	1:51:A:GLU:HG2	4	0.14
(1,2177)	1:50:A:ALA:HB3	1:51:A:GLU:HG3	4	0.14
(1,2023)	1:145:A:ILE:HD11	1:161:A:TRP:HD1	4	0.14
(1,2023)	1:145:A:ILE:HD12	1:161:A:TRP:HD1	4	0.14
(1,2023)	1:145:A:ILE:HD13	1:161:A:TRP:HD1	4	0.14
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD11	7	0.14
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD12	7	0.14
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD13	7	0.14
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD11	7	0.14
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD12	7	0.14
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD13	7	0.14
(1,1907)	1:176:A:LYS:HA	1:179:A:GLN:HG2	3	0.14
(1,1907)	1:176:A:LYS:HA	1:179:A:GLN:HG2	6	0.14
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	1	0.14
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	1	0.14
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	1	0.14
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	2	0.14
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	2	0.14
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	2	0.14
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	4	0.14
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	4	0.14
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	4	0.14
(1,1803)	1:71:A:VAL:HG21	1:72:A:TYR:HA	5	0.14
(1,1803)	1:71:A:VAL:HG22	1:72:A:TYR:HA	5	0.14
(1,1803)	1:71:A:VAL:HG23	1:72:A:TYR:HA	5	0.14
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD2	7	0.14
(1,1621)	1:83:A:LEU:HB2	1:84:A:ARG:HD3	7	0.14
(1,1612)	1:42:A:ARG:HG2	1:84:A:ARG:HA	2	0.14
(1,1612)	1:42:A:ARG:HG3	1:84:A:ARG:HA	2	0.14
(1,1608)	1:68:A:PHE:HD1	1:89:A:LEU:HD21	7	0.14
(1,1608)	1:68:A:PHE:HD1	1:89:A:LEU:HD22	7	0.14
(1,1608)	1:68:A:PHE:HD1	1:89:A:LEU:HD23	7	0.14
(1,1608)	1:68:A:PHE:HD2	1:89:A:LEU:HD21	7	0.14
(1,1608)	1:68:A:PHE:HD2	1:89:A:LEU:HD22	7	0.14
(1,1608)	1:68:A:PHE:HD2	1:89:A:LEU:HD23	7	0.14
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG11	10	0.14
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG12	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1276)	1:165:A:ALA:HA	1:168:A:VAL:HG13	10	0.14
(1,1241)	1:7:A:ALA:HA	1:8:A:ALA:H	8	0.14
(1,1209)	1:30:A:VAL:H	1:30:A:VAL:HB	10	0.14
(1,748)	1:39:A:TRP:HZ2	1:95:A:ARG:H	10	0.14
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG21	6	0.14
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG22	6	0.14
(1,625)	1:125:A:LEU:H	1:177:A:ILE:HG23	6	0.14
(1,496)	1:115:A:LYS:H	1:115:A:LYS:HD2	10	0.14
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD21	7	0.14
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD22	7	0.14
(1,276)	1:179:A:GLN:H	1:180:A:LEU:HD23	7	0.14
(1,35)	1:143:A:GLU:HB2	1:163:A:VAL:H	1	0.14
(2,105)	1:172:A:THR:O	1:176:A:LYS:H	6	0.13
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	5	0.13
(2,97)	1:146:A:GLY:O	1:161:A:TRP:H	1	0.13
(2,96)	1:109:A:TRP:O	1:160:A:VAL:N	4	0.13
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	8	0.13
(2,85)	1:85:A:CYS:O	1:151:A:VAL:H	6	0.13
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	8	0.13
(2,63)	1:123:A:LYS:O	1:127:A:LEU:H	5	0.13
(2,61)	1:122:A:TRP:O	1:126:A:LEU:H	9	0.13
(2,59)	1:121:A:VAL:O	1:125:A:LEU:H	10	0.13
(2,48)	1:111:A:MET:N	1:158:A:VAL:O	4	0.13
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	2	0.13
(2,38)	1:37:A:THR:O	1:90:A:MET:N	1	0.13
(2,29)	1:41:A:ASP:O	1:86:A:SER:H	1	0.13
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	5	0.13
(2,3)	1:37:A:THR:H	1:90:A:MET:O	3	0.13
(1,3823)	1:199:A:ALA:HB1	2:208:A:M7G:H2'	1	0.13
(1,3823)	1:199:A:ALA:HB2	2:208:A:M7G:H2'	1	0.13
(1,3823)	1:199:A:ALA:HB3	2:208:A:M7G:H2'	1	0.13
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	4	0.13
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	4	0.13
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	4	0.13
(1,3746)	1:181:A:LEU:HD11	1:184:A:ILE:HB	4	0.13
(1,3746)	1:181:A:LEU:HD12	1:184:A:ILE:HB	4	0.13
(1,3746)	1:181:A:LEU:HD13	1:184:A:ILE:HB	4	0.13
(1,3746)	1:181:A:LEU:HD21	1:184:A:ILE:HB	4	0.13
(1,3746)	1:181:A:LEU:HD22	1:184:A:ILE:HB	4	0.13
(1,3746)	1:181:A:LEU:HD23	1:184:A:ILE:HB	4	0.13
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG11	10	0.13
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG12	10	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG13	10	0.13
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG21	10	0.13
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG22	10	0.13
(1,3608)	1:150:A:SER:HB2	1:157:A:VAL:HG23	10	0.13
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG11	10	0.13
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG12	10	0.13
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG13	10	0.13
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG21	10	0.13
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG22	10	0.13
(1,3608)	1:150:A:SER:HB3	1:157:A:VAL:HG23	10	0.13
(1,3554)	1:143:A:GLU:H	1:163:A:VAL:HG11	2	0.13
(1,3554)	1:143:A:GLU:H	1:163:A:VAL:HG12	2	0.13
(1,3554)	1:143:A:GLU:H	1:163:A:VAL:HG13	2	0.13
(1,3554)	1:143:A:GLU:H	1:163:A:VAL:HG21	2	0.13
(1,3554)	1:143:A:GLU:H	1:163:A:VAL:HG22	2	0.13
(1,3554)	1:143:A:GLU:H	1:163:A:VAL:HG23	2	0.13
(1,3419)	1:118:A:THR:HB	1:151:A:VAL:HG11	5	0.13
(1,3419)	1:118:A:THR:HB	1:151:A:VAL:HG12	5	0.13
(1,3419)	1:118:A:THR:HB	1:151:A:VAL:HG13	5	0.13
(1,3419)	1:118:A:THR:HB	1:151:A:VAL:HG21	5	0.13
(1,3419)	1:118:A:THR:HB	1:151:A:VAL:HG22	5	0.13
(1,3419)	1:118:A:THR:HB	1:151:A:VAL:HG23	5	0.13
(1,3407)	1:117:A:SER:HB2	1:118:A:THR:H	6	0.13
(1,3407)	1:117:A:SER:HB3	1:118:A:THR:H	6	0.13
(1,3377)	1:113:A:VAL:HG11	1:157:A:VAL:H	7	0.13
(1,3377)	1:113:A:VAL:HG12	1:157:A:VAL:H	7	0.13
(1,3377)	1:113:A:VAL:HG13	1:157:A:VAL:H	7	0.13
(1,3377)	1:113:A:VAL:HG21	1:157:A:VAL:H	7	0.13
(1,3377)	1:113:A:VAL:HG22	1:157:A:VAL:H	7	0.13
(1,3377)	1:113:A:VAL:HG23	1:157:A:VAL:H	7	0.13
(1,3345)	1:111:A:MET:HE1	1:173:A:VAL:HG11	9	0.13
(1,3345)	1:111:A:MET:HE1	1:173:A:VAL:HG12	9	0.13
(1,3345)	1:111:A:MET:HE1	1:173:A:VAL:HG13	9	0.13
(1,3345)	1:111:A:MET:HE1	1:173:A:VAL:HG21	9	0.13
(1,3345)	1:111:A:MET:HE1	1:173:A:VAL:HG22	9	0.13
(1,3345)	1:111:A:MET:HE1	1:173:A:VAL:HG23	9	0.13
(1,3345)	1:111:A:MET:HE2	1:173:A:VAL:HG11	9	0.13
(1,3345)	1:111:A:MET:HE2	1:173:A:VAL:HG12	9	0.13
(1,3345)	1:111:A:MET:HE2	1:173:A:VAL:HG13	9	0.13
(1,3345)	1:111:A:MET:HE2	1:173:A:VAL:HG21	9	0.13
(1,3345)	1:111:A:MET:HE2	1:173:A:VAL:HG22	9	0.13
(1,3345)	1:111:A:MET:HE2	1:173:A:VAL:HG23	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3345)	1:111:A:MET:HE3	1:173:A:VAL:HG11	9	0.13
(1,3345)	1:111:A:MET:HE3	1:173:A:VAL:HG12	9	0.13
(1,3345)	1:111:A:MET:HE3	1:173:A:VAL:HG13	9	0.13
(1,3345)	1:111:A:MET:HE3	1:173:A:VAL:HG21	9	0.13
(1,3345)	1:111:A:MET:HE3	1:173:A:VAL:HG22	9	0.13
(1,3345)	1:111:A:MET:HE3	1:173:A:VAL:HG23	9	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG11	6	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG12	6	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG13	6	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG21	6	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG22	6	0.13
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG23	6	0.13
(1,3251)	1:97:A:LEU:HD11	1:100:A:GLU:HG2	5	0.13
(1,3251)	1:97:A:LEU:HD11	1:100:A:GLU:HG3	5	0.13
(1,3251)	1:97:A:LEU:HD12	1:100:A:GLU:HG2	5	0.13
(1,3251)	1:97:A:LEU:HD12	1:100:A:GLU:HG3	5	0.13
(1,3251)	1:97:A:LEU:HD13	1:100:A:GLU:HG2	5	0.13
(1,3251)	1:97:A:LEU:HD13	1:100:A:GLU:HG3	5	0.13
(1,3251)	1:97:A:LEU:HD21	1:100:A:GLU:HG2	5	0.13
(1,3251)	1:97:A:LEU:HD21	1:100:A:GLU:HG3	5	0.13
(1,3251)	1:97:A:LEU:HD22	1:100:A:GLU:HG2	5	0.13
(1,3251)	1:97:A:LEU:HD22	1:100:A:GLU:HG3	5	0.13
(1,3251)	1:97:A:LEU:HD23	1:100:A:GLU:HG2	5	0.13
(1,3251)	1:97:A:LEU:HD23	1:100:A:GLU:HG3	5	0.13
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD11	5	0.13
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD12	5	0.13
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD13	5	0.13
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD21	5	0.13
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD22	5	0.13
(1,3230)	1:95:A:ARG:HD2	1:97:A:LEU:HD23	5	0.13
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD11	5	0.13
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD12	5	0.13
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD13	5	0.13
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD21	5	0.13
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD22	5	0.13
(1,3230)	1:95:A:ARG:HD3	1:97:A:LEU:HD23	5	0.13
(1,3170)	1:83:A:LEU:HD11	1:152:A:ARG:HB2	4	0.13
(1,3170)	1:83:A:LEU:HD11	1:152:A:ARG:HB3	4	0.13
(1,3170)	1:83:A:LEU:HD12	1:152:A:ARG:HB2	4	0.13
(1,3170)	1:83:A:LEU:HD12	1:152:A:ARG:HB3	4	0.13
(1,3170)	1:83:A:LEU:HD13	1:152:A:ARG:HB2	4	0.13
(1,3170)	1:83:A:LEU:HD13	1:152:A:ARG:HB3	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3158)	1:81:A:LEU:HD11	1:85:A:CYS:H	9	0.13
(1,3158)	1:81:A:LEU:HD12	1:85:A:CYS:H	9	0.13
(1,3158)	1:81:A:LEU:HD13	1:85:A:CYS:H	9	0.13
(1,3158)	1:81:A:LEU:HD21	1:85:A:CYS:H	9	0.13
(1,3158)	1:81:A:LEU:HD22	1:85:A:CYS:H	9	0.13
(1,3158)	1:81:A:LEU:HD23	1:85:A:CYS:H	9	0.13
(1,3029)	1:62:A:VAL:HG11	1:67:A:ILE:HB	3	0.13
(1,3029)	1:62:A:VAL:HG12	1:67:A:ILE:HB	3	0.13
(1,3029)	1:62:A:VAL:HG13	1:67:A:ILE:HB	3	0.13
(1,3029)	1:62:A:VAL:HG21	1:67:A:ILE:HB	3	0.13
(1,3029)	1:62:A:VAL:HG22	1:67:A:ILE:HB	3	0.13
(1,3029)	1:62:A:VAL:HG23	1:67:A:ILE:HB	3	0.13
(1,2892)	1:39:A:TRP:HH2	1:56:A:LEU:HD11	2	0.13
(1,2892)	1:39:A:TRP:HH2	1:56:A:LEU:HD12	2	0.13
(1,2892)	1:39:A:TRP:HH2	1:56:A:LEU:HD13	2	0.13
(1,2892)	1:39:A:TRP:HH2	1:56:A:LEU:HD21	2	0.13
(1,2892)	1:39:A:TRP:HH2	1:56:A:LEU:HD22	2	0.13
(1,2892)	1:39:A:TRP:HH2	1:56:A:LEU:HD23	2	0.13
(1,2810)	1:23:A:LEU:HD11	1:24:A:PRO:HD2	5	0.13
(1,2810)	1:23:A:LEU:HD11	1:24:A:PRO:HD3	5	0.13
(1,2810)	1:23:A:LEU:HD12	1:24:A:PRO:HD2	5	0.13
(1,2810)	1:23:A:LEU:HD12	1:24:A:PRO:HD3	5	0.13
(1,2810)	1:23:A:LEU:HD13	1:24:A:PRO:HD2	5	0.13
(1,2810)	1:23:A:LEU:HD13	1:24:A:PRO:HD3	5	0.13
(1,2810)	1:23:A:LEU:HD21	1:24:A:PRO:HD2	5	0.13
(1,2810)	1:23:A:LEU:HD21	1:24:A:PRO:HD3	5	0.13
(1,2810)	1:23:A:LEU:HD22	1:24:A:PRO:HD2	5	0.13
(1,2810)	1:23:A:LEU:HD22	1:24:A:PRO:HD3	5	0.13
(1,2810)	1:23:A:LEU:HD23	1:24:A:PRO:HD2	5	0.13
(1,2810)	1:23:A:LEU:HD23	1:24:A:PRO:HD3	5	0.13
(1,2744)	1:21:A:SER:HA	1:22:A:ALA:HB1	10	0.13
(1,2744)	1:21:A:SER:HA	1:22:A:ALA:HB2	10	0.13
(1,2744)	1:21:A:SER:HA	1:22:A:ALA:HB3	10	0.13
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	4	0.13
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	4	0.13
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	4	0.13
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	4	0.13
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	4	0.13
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	4	0.13
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	9	0.13
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	9	0.13
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	9	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	9	0.13
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	9	0.13
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	9	0.13
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG21	6	0.13
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG22	6	0.13
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG23	6	0.13
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG21	6	0.13
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG22	6	0.13
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG23	6	0.13
(1,2580)	1:60:A:TYR:HD1	1:71:A:VAL:HB	2	0.13
(1,2580)	1:60:A:TYR:HD2	1:71:A:VAL:HB	2	0.13
(1,2580)	1:60:A:TYR:HD1	1:71:A:VAL:HB	7	0.13
(1,2580)	1:60:A:TYR:HD2	1:71:A:VAL:HB	7	0.13
(1,2482)	1:110:A:LYS:HB2	1:110:A:LYS:HE2	3	0.13
(1,2482)	1:110:A:LYS:HB2	1:110:A:LYS:HE3	3	0.13
(1,2327)	1:109:A:TRP:HH2	1:144:A:ILE:HD11	6	0.13
(1,2327)	1:109:A:TRP:HH2	1:144:A:ILE:HD12	6	0.13
(1,2327)	1:109:A:TRP:HH2	1:144:A:ILE:HD13	6	0.13
(1,2313)	1:165:A:ALA:HA	1:168:A:VAL:HB	8	0.13
(1,2311)	1:165:A:ALA:HA	1:191:A:TYR:HE1	6	0.13
(1,2311)	1:165:A:ALA:HA	1:191:A:TYR:HE2	6	0.13
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG21	4	0.13
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG22	4	0.13
(1,2160)	1:132:A:GLU:HB2	1:135:A:THR:HG23	4	0.13
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG21	4	0.13
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG22	4	0.13
(1,2160)	1:132:A:GLU:HB3	1:135:A:THR:HG23	4	0.13
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG11	7	0.13
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG12	7	0.13
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG13	7	0.13
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG21	7	0.13
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG22	7	0.13
(1,2033)	1:186:A:PHE:HD1	1:189:A:VAL:HG23	7	0.13
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG11	7	0.13
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG12	7	0.13
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG13	7	0.13
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG21	7	0.13
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG22	7	0.13
(1,2033)	1:186:A:PHE:HD2	1:189:A:VAL:HG23	7	0.13
(1,1986)	1:68:A:PHE:HZ	1:127:A:LEU:HB3	2	0.13
(1,1986)	1:68:A:PHE:HZ	1:127:A:LEU:HB3	3	0.13
(1,1937)	1:159:A:GLN:HB2	1:192:A:LYS:HG2	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1937)	1:159:A:GLN:HB2	1:192:A:LYS:HG3	6	0.13
(1,1937)	1:159:A:GLN:HB3	1:192:A:LYS:HG2	6	0.13
(1,1937)	1:159:A:GLN:HB3	1:192:A:LYS:HG3	6	0.13
(1,1907)	1:176:A:LYS:HA	1:179:A:GLN:HG2	8	0.13
(1,1877)	1:110:A:LYS:HE2	1:190:A:PHE:HE1	4	0.13
(1,1877)	1:110:A:LYS:HE2	1:190:A:PHE:HE2	4	0.13
(1,1877)	1:110:A:LYS:HE3	1:190:A:PHE:HE1	4	0.13
(1,1877)	1:110:A:LYS:HE3	1:190:A:PHE:HE2	4	0.13
(1,1797)	1:59:A:ILE:HG12	1:75:A:ILE:HD11	9	0.13
(1,1797)	1:59:A:ILE:HG12	1:75:A:ILE:HD12	9	0.13
(1,1797)	1:59:A:ILE:HG12	1:75:A:ILE:HD13	9	0.13
(1,1589)	1:128:A:ALA:HA	1:133:A:GLN:HG2	10	0.13
(1,1586)	1:90:A:MET:HA	1:129:A:THR:HG21	10	0.13
(1,1586)	1:90:A:MET:HA	1:129:A:THR:HG22	10	0.13
(1,1586)	1:90:A:MET:HA	1:129:A:THR:HG23	10	0.13
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD1	9	0.13
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD2	9	0.13
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG11	6	0.13
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG12	6	0.13
(1,1380)	1:122:A:TRP:HH2	1:147:A:VAL:HG13	6	0.13
(1,1202)	1:206:A:LYS:HA	1:207:A:HIS:H	2	0.13
(1,732)	1:97:A:LEU:H	1:100:A:GLU:HG2	6	0.13
(1,354)	1:169:A:GLY:H	1:170:A:GLU:HG2	5	0.13
(1,354)	1:169:A:GLY:H	1:170:A:GLU:HG3	5	0.13
(1,332)	1:22:A:ALA:HA	1:23:A:LEU:H	3	0.13
(1,251)	1:112:A:LYS:H	1:186:A:PHE:HB3	4	0.13
(1,196)	1:181:A:LEU:H	1:182:A:PRO:HD2	8	0.13
(1,111)	1:36:A:TRP:HH2	1:146:A:GLY:H	7	0.13
(2,105)	1:172:A:THR:O	1:176:A:LYS:H	8	0.12
(2,101)	1:165:A:ALA:O	1:168:A:VAL:H	6	0.12
(2,100)	1:107:A:GLY:O	1:162:A:ASN:N	4	0.12
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	1	0.12
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	9	0.12
(2,96)	1:109:A:TRP:O	1:160:A:VAL:N	10	0.12
(2,95)	1:109:A:TRP:O	1:160:A:VAL:H	3	0.12
(2,87)	1:152:A:ARG:H	1:155:A:GLU:O	10	0.12
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	1	0.12
(2,71)	1:128:A:ALA:O	1:131:A:GLY:H	9	0.12
(2,57)	1:120:A:THR:O	1:124:A:GLU:H	8	0.12
(2,51)	1:117:A:SER:O	1:121:A:VAL:H	3	0.12
(2,51)	1:117:A:SER:O	1:121:A:VAL:H	6	0.12
(2,48)	1:111:A:MET:N	1:158:A:VAL:O	9	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,43)	1:109:A:TRP:H	1:160:A:VAL:O	9	0.12
(2,39)	1:91:A:ARG:H	1:145:A:ILE:O	1	0.12
(2,39)	1:91:A:ARG:H	1:145:A:ILE:O	3	0.12
(2,38)	1:37:A:THR:O	1:90:A:MET:N	4	0.12
(2,29)	1:41:A:ASP:O	1:86:A:SER:H	4	0.12
(2,17)	1:66:A:GLN:O	1:70:A:SER:H	4	0.12
(2,17)	1:66:A:GLN:O	1:70:A:SER:H	5	0.12
(2,17)	1:66:A:GLN:O	1:70:A:SER:H	10	0.12
(2,6)	1:38:A:PHE:N	1:60:A:TYR:O	4	0.12
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	1	0.12
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	8	0.12
(2,5)	1:38:A:PHE:H	1:60:A:TYR:O	10	0.12
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM71	7	0.12
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM72	7	0.12
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM73	7	0.12
(1,3789)	1:43:A:SER:H	2:208:A:M7G:H51	4	0.12
(1,3761)	1:187:A:LYS:HG2	1:188:A:ALA:H	7	0.12
(1,3761)	1:187:A:LYS:HG3	1:188:A:ALA:H	7	0.12
(1,3674)	1:167:A:LEU:HB2	1:170:A:GLU:HG2	10	0.12
(1,3674)	1:167:A:LEU:HB2	1:170:A:GLU:HG3	10	0.12
(1,3674)	1:167:A:LEU:HB3	1:170:A:GLU:HG2	10	0.12
(1,3674)	1:167:A:LEU:HB3	1:170:A:GLU:HG3	10	0.12
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG11	7	0.12
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG12	7	0.12
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG13	7	0.12
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG21	7	0.12
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG22	7	0.12
(1,3255)	1:98:A:TRP:HZ3	1:108:A:VAL:HG23	7	0.12
(1,3253)	1:98:A:TRP:HE3	1:194:A:HIS:HB2	5	0.12
(1,3253)	1:98:A:TRP:HE3	1:194:A:HIS:HB3	5	0.12
(1,3228)	1:95:A:ARG:HD2	1:97:A:LEU:H	7	0.12
(1,3228)	1:95:A:ARG:HD3	1:97:A:LEU:H	7	0.12
(1,3166)	1:81:A:LEU:HD11	1:151:A:VAL:HB	9	0.12
(1,3166)	1:81:A:LEU:HD12	1:151:A:VAL:HB	9	0.12
(1,3166)	1:81:A:LEU:HD13	1:151:A:VAL:HB	9	0.12
(1,3166)	1:81:A:LEU:HD21	1:151:A:VAL:HB	9	0.12
(1,3166)	1:81:A:LEU:HD22	1:151:A:VAL:HB	9	0.12
(1,3166)	1:81:A:LEU:HD23	1:151:A:VAL:HB	9	0.12
(1,2822)	1:30:A:VAL:HG11	1:66:A:GLN:HE22	2	0.12
(1,2822)	1:30:A:VAL:HG12	1:66:A:GLN:HE22	2	0.12
(1,2822)	1:30:A:VAL:HG13	1:66:A:GLN:HE22	2	0.12
(1,2822)	1:30:A:VAL:HG21	1:66:A:GLN:HE22	2	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2822)	1:30:A:VAL:HG22	1:66:A:GLN:HE22	2	0.12
(1,2822)	1:30:A:VAL:HG23	1:66:A:GLN:HE22	2	0.12
(1,2811)	1:29:A:GLY:H	1:30:A:VAL:HG11	2	0.12
(1,2811)	1:29:A:GLY:H	1:30:A:VAL:HG12	2	0.12
(1,2811)	1:29:A:GLY:H	1:30:A:VAL:HG13	2	0.12
(1,2811)	1:29:A:GLY:H	1:30:A:VAL:HG21	2	0.12
(1,2811)	1:29:A:GLY:H	1:30:A:VAL:HG22	2	0.12
(1,2811)	1:29:A:GLY:H	1:30:A:VAL:HG23	2	0.12
(1,2745)	1:97:A:LEU:HB2	1:99:A:GLU:H	2	0.12
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG21	10	0.12
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG22	10	0.12
(1,2665)	1:38:A:PHE:HD1	1:59:A:ILE:HG23	10	0.12
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG21	10	0.12
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG22	10	0.12
(1,2665)	1:38:A:PHE:HD2	1:59:A:ILE:HG23	10	0.12
(1,2626)	1:42:A:ARG:HG2	1:44:A:LEU:HD11	4	0.12
(1,2626)	1:42:A:ARG:HG2	1:44:A:LEU:HD12	4	0.12
(1,2626)	1:42:A:ARG:HG2	1:44:A:LEU:HD13	4	0.12
(1,2626)	1:42:A:ARG:HG3	1:44:A:LEU:HD11	4	0.12
(1,2626)	1:42:A:ARG:HG3	1:44:A:LEU:HD12	4	0.12
(1,2626)	1:42:A:ARG:HG3	1:44:A:LEU:HD13	4	0.12
(1,2602)	1:56:A:LEU:HD21	1:97:A:LEU:HG	3	0.12
(1,2602)	1:56:A:LEU:HD22	1:97:A:LEU:HG	3	0.12
(1,2602)	1:56:A:LEU:HD23	1:97:A:LEU:HG	3	0.12
(1,2600)	1:56:A:LEU:HG	1:97:A:LEU:HG	4	0.12
(1,2512)	1:128:A:ALA:HA	1:180:A:LEU:HG	2	0.12
(1,2485)	1:181:A:LEU:HD21	1:186:A:PHE:HZ	4	0.12
(1,2485)	1:181:A:LEU:HD22	1:186:A:PHE:HZ	4	0.12
(1,2485)	1:181:A:LEU:HD23	1:186:A:PHE:HZ	4	0.12
(1,2436)	1:118:A:THR:HA	1:121:A:VAL:HB	7	0.12
(1,2429)	1:120:A:THR:HG21	1:124:A:GLU:HG3	3	0.12
(1,2429)	1:120:A:THR:HG22	1:124:A:GLU:HG3	3	0.12
(1,2429)	1:120:A:THR:HG23	1:124:A:GLU:HG3	3	0.12
(1,2382)	1:69:A:TRP:HZ2	1:127:A:LEU:HG	9	0.12
(1,2359)	1:141:A:ASP:HB2	1:167:A:LEU:HG	5	0.12
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG11	5	0.12
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG12	5	0.12
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG13	5	0.12
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG11	5	0.12
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG12	5	0.12
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG13	5	0.12
(1,2341)	1:83:A:LEU:HD11	1:152:A:ARG:HA	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2341)	1:83:A:LEU:HD12	1:152:A:ARG:HA	1	0.12
(1,2341)	1:83:A:LEU:HD13	1:152:A:ARG:HA	1	0.12
(1,2341)	1:83:A:LEU:HD11	1:152:A:ARG:HA	2	0.12
(1,2341)	1:83:A:LEU:HD12	1:152:A:ARG:HA	2	0.12
(1,2341)	1:83:A:LEU:HD13	1:152:A:ARG:HA	2	0.12
(1,2312)	1:165:A:ALA:HA	1:168:A:VAL:HG21	9	0.12
(1,2312)	1:165:A:ALA:HA	1:168:A:VAL:HG22	9	0.12
(1,2312)	1:165:A:ALA:HA	1:168:A:VAL:HG23	9	0.12
(1,2130)	1:121:A:VAL:HG21	1:186:A:PHE:HE1	5	0.12
(1,2130)	1:121:A:VAL:HG21	1:186:A:PHE:HE2	5	0.12
(1,2130)	1:121:A:VAL:HG22	1:186:A:PHE:HE1	5	0.12
(1,2130)	1:121:A:VAL:HG22	1:186:A:PHE:HE2	5	0.12
(1,2130)	1:121:A:VAL:HG23	1:186:A:PHE:HE1	5	0.12
(1,2130)	1:121:A:VAL:HG23	1:186:A:PHE:HE2	5	0.12
(1,2059)	1:188:A:ALA:HB1	1:190:A:PHE:HZ	2	0.12
(1,2059)	1:188:A:ALA:HB2	1:190:A:PHE:HZ	2	0.12
(1,2059)	1:188:A:ALA:HB3	1:190:A:PHE:HZ	2	0.12
(1,2058)	1:175:A:GLU:HA	1:178:A:HIS:HD2	5	0.12
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD11	1	0.12
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD12	1	0.12
(1,1964)	1:60:A:TYR:HE1	1:67:A:ILE:HD13	1	0.12
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD11	1	0.12
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD12	1	0.12
(1,1964)	1:60:A:TYR:HE2	1:67:A:ILE:HD13	1	0.12
(1,1954)	1:20:A:LEU:HA	1:21:A:SER:HB2	10	0.12
(1,1954)	1:20:A:LEU:HA	1:21:A:SER:HB3	10	0.12
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB2	8	0.12
(1,1894)	1:177:A:ILE:HG21	1:181:A:LEU:HB3	8	0.12
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB2	8	0.12
(1,1894)	1:177:A:ILE:HG22	1:181:A:LEU:HB3	8	0.12
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB2	8	0.12
(1,1894)	1:177:A:ILE:HG23	1:181:A:LEU:HB3	8	0.12
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD21	1	0.12
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD22	1	0.12
(1,1820)	1:134:A:PHE:HE1	1:180:A:LEU:HD23	1	0.12
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD21	1	0.12
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD22	1	0.12
(1,1820)	1:134:A:PHE:HE2	1:180:A:LEU:HD23	1	0.12
(1,1630)	1:83:A:LEU:HD21	1:84:A:ARG:HD2	5	0.12
(1,1630)	1:83:A:LEU:HD21	1:84:A:ARG:HD3	5	0.12
(1,1630)	1:83:A:LEU:HD22	1:84:A:ARG:HD2	5	0.12
(1,1630)	1:83:A:LEU:HD22	1:84:A:ARG:HD3	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1630)	1:83:A:LEU:HD23	1:84:A:ARG:HD2	5	0.12
(1,1630)	1:83:A:LEU:HD23	1:84:A:ARG:HD3	5	0.12
(1,1612)	1:42:A:ARG:HG2	1:84:A:ARG:HA	7	0.12
(1,1612)	1:42:A:ARG:HG3	1:84:A:ARG:HA	7	0.12
(1,1589)	1:128:A:ALA:HA	1:133:A:GLN:HG2	7	0.12
(1,1529)	1:113:A:VAL:HB	1:186:A:PHE:HE1	6	0.12
(1,1529)	1:113:A:VAL:HB	1:186:A:PHE:HE2	6	0.12
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD11	10	0.12
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD12	10	0.12
(1,1419)	1:142:A:ASP:HA	1:167:A:LEU:HD13	10	0.12
(1,1373)	1:125:A:LEU:HB2	1:147:A:VAL:HG21	9	0.12
(1,1373)	1:125:A:LEU:HB2	1:147:A:VAL:HG22	9	0.12
(1,1373)	1:125:A:LEU:HB2	1:147:A:VAL:HG23	9	0.12
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG21	1	0.12
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG22	1	0.12
(1,1371)	1:129:A:THR:HG21	1:147:A:VAL:HG23	1	0.12
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG21	1	0.12
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG22	1	0.12
(1,1371)	1:129:A:THR:HG22	1:147:A:VAL:HG23	1	0.12
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG21	1	0.12
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG22	1	0.12
(1,1371)	1:129:A:THR:HG23	1:147:A:VAL:HG23	1	0.12
(1,1370)	1:129:A:THR:HG21	1:147:A:VAL:HB	3	0.12
(1,1370)	1:129:A:THR:HG22	1:147:A:VAL:HB	3	0.12
(1,1370)	1:129:A:THR:HG23	1:147:A:VAL:HB	3	0.12
(1,927)	1:42:A:ARG:HA	1:43:A:SER:H	9	0.12
(1,495)	1:115:A:LYS:H	1:115:A:LYS:HD3	2	0.12
(1,111)	1:36:A:TRP:HH2	1:146:A:GLY:H	8	0.12
(2,105)	1:172:A:THR:O	1:176:A:LYS:H	9	0.11
(2,103)	1:167:A:LEU:O	1:170:A:GLU:H	6	0.11
(2,103)	1:167:A:LEU:O	1:170:A:GLU:H	8	0.11
(2,100)	1:107:A:GLY:O	1:162:A:ASN:N	5	0.11
(2,100)	1:107:A:GLY:O	1:162:A:ASN:N	7	0.11
(2,100)	1:107:A:GLY:O	1:162:A:ASN:N	8	0.11
(2,96)	1:109:A:TRP:O	1:160:A:VAL:N	7	0.11
(2,91)	1:111:A:MET:O	1:158:A:VAL:H	6	0.11
(2,89)	1:150:A:SER:O	1:157:A:VAL:H	10	0.11
(2,87)	1:152:A:ARG:H	1:155:A:GLU:O	4	0.11
(2,86)	1:85:A:CYS:O	1:151:A:VAL:N	6	0.11
(2,86)	1:85:A:CYS:O	1:151:A:VAL:N	9	0.11
(2,85)	1:85:A:CYS:O	1:151:A:VAL:H	8	0.11
(2,70)	1:126:A:LEU:O	1:130:A:ILE:N	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,55)	1:119:A:SER:O	1:123:A:LYS:H	10	0.11
(2,49)	1:113:A:VAL:H	1:156:A:ASP:O	8	0.11
(2,48)	1:111:A:MET:N	1:158:A:VAL:O	3	0.11
(2,46)	1:110:A:LYS:N	1:190:A:PHE:O	2	0.11
(2,46)	1:110:A:LYS:N	1:190:A:PHE:O	10	0.11
(2,42)	1:108:A:VAL:N	1:192:A:LYS:O	4	0.11
(2,42)	1:108:A:VAL:N	1:192:A:LYS:O	10	0.11
(2,41)	1:108:A:VAL:H	1:192:A:LYS:O	5	0.11
(2,27)	1:71:A:VAL:O	1:75:A:ILE:H	2	0.11
(2,1)	1:36:A:TRP:H	1:62:A:VAL:O	5	0.11
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM71	4	0.11
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM72	4	0.11
(1,3817)	1:98:A:TRP:HZ2	2:208:A:M7G:HM73	4	0.11
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM71	5	0.11
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM72	5	0.11
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM73	5	0.11
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM71	5	0.11
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM72	5	0.11
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM73	5	0.11
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM71	5	0.11
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM72	5	0.11
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM73	5	0.11
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM71	8	0.11
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM72	8	0.11
(1,3808)	1:97:A:LEU:HA	2:208:A:M7G:HM73	8	0.11
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG11	4	0.11
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG12	4	0.11
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG13	4	0.11
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG21	4	0.11
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG22	4	0.11
(1,3559)	1:143:A:GLU:HB3	1:163:A:VAL:HG23	4	0.11
(1,3482)	1:126:A:LEU:HA	1:147:A:VAL:HG11	2	0.11
(1,3482)	1:126:A:LEU:HA	1:147:A:VAL:HG12	2	0.11
(1,3482)	1:126:A:LEU:HA	1:147:A:VAL:HG13	2	0.11
(1,3482)	1:126:A:LEU:HA	1:147:A:VAL:HG21	2	0.11
(1,3482)	1:126:A:LEU:HA	1:147:A:VAL:HG22	2	0.11
(1,3482)	1:126:A:LEU:HA	1:147:A:VAL:HG23	2	0.11
(1,3459)	1:123:A:LYS:HE2	1:127:A:LEU:HD11	1	0.11
(1,3459)	1:123:A:LYS:HE2	1:127:A:LEU:HD12	1	0.11
(1,3459)	1:123:A:LYS:HE2	1:127:A:LEU:HD13	1	0.11
(1,3459)	1:123:A:LYS:HE2	1:127:A:LEU:HD21	1	0.11
(1,3459)	1:123:A:LYS:HE2	1:127:A:LEU:HD22	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3459)	1:123:A:LYS:HE2	1:127:A:LEU:HD23	1	0.11
(1,3459)	1:123:A:LYS:HE3	1:127:A:LEU:HD11	1	0.11
(1,3459)	1:123:A:LYS:HE3	1:127:A:LEU:HD12	1	0.11
(1,3459)	1:123:A:LYS:HE3	1:127:A:LEU:HD13	1	0.11
(1,3459)	1:123:A:LYS:HE3	1:127:A:LEU:HD21	1	0.11
(1,3459)	1:123:A:LYS:HE3	1:127:A:LEU:HD22	1	0.11
(1,3459)	1:123:A:LYS:HE3	1:127:A:LEU:HD23	1	0.11
(1,3381)	1:113:A:VAL:HG11	1:158:A:VAL:HG11	10	0.11
(1,3381)	1:113:A:VAL:HG11	1:158:A:VAL:HG12	10	0.11
(1,3381)	1:113:A:VAL:HG11	1:158:A:VAL:HG13	10	0.11
(1,3381)	1:113:A:VAL:HG11	1:158:A:VAL:HG21	10	0.11
(1,3381)	1:113:A:VAL:HG11	1:158:A:VAL:HG22	10	0.11
(1,3381)	1:113:A:VAL:HG11	1:158:A:VAL:HG23	10	0.11
(1,3381)	1:113:A:VAL:HG12	1:158:A:VAL:HG11	10	0.11
(1,3381)	1:113:A:VAL:HG12	1:158:A:VAL:HG12	10	0.11
(1,3381)	1:113:A:VAL:HG12	1:158:A:VAL:HG13	10	0.11
(1,3381)	1:113:A:VAL:HG12	1:158:A:VAL:HG21	10	0.11
(1,3381)	1:113:A:VAL:HG12	1:158:A:VAL:HG22	10	0.11
(1,3381)	1:113:A:VAL:HG12	1:158:A:VAL:HG23	10	0.11
(1,3381)	1:113:A:VAL:HG13	1:158:A:VAL:HG11	10	0.11
(1,3381)	1:113:A:VAL:HG13	1:158:A:VAL:HG12	10	0.11
(1,3381)	1:113:A:VAL:HG13	1:158:A:VAL:HG13	10	0.11
(1,3381)	1:113:A:VAL:HG13	1:158:A:VAL:HG21	10	0.11
(1,3381)	1:113:A:VAL:HG13	1:158:A:VAL:HG22	10	0.11
(1,3381)	1:113:A:VAL:HG13	1:158:A:VAL:HG23	10	0.11
(1,3381)	1:113:A:VAL:HG21	1:158:A:VAL:HG11	10	0.11
(1,3381)	1:113:A:VAL:HG21	1:158:A:VAL:HG12	10	0.11
(1,3381)	1:113:A:VAL:HG21	1:158:A:VAL:HG13	10	0.11
(1,3381)	1:113:A:VAL:HG21	1:158:A:VAL:HG21	10	0.11
(1,3381)	1:113:A:VAL:HG21	1:158:A:VAL:HG22	10	0.11
(1,3381)	1:113:A:VAL:HG21	1:158:A:VAL:HG23	10	0.11
(1,3381)	1:113:A:VAL:HG22	1:158:A:VAL:HG11	10	0.11
(1,3381)	1:113:A:VAL:HG22	1:158:A:VAL:HG12	10	0.11
(1,3381)	1:113:A:VAL:HG22	1:158:A:VAL:HG13	10	0.11
(1,3381)	1:113:A:VAL:HG22	1:158:A:VAL:HG21	10	0.11
(1,3381)	1:113:A:VAL:HG22	1:158:A:VAL:HG22	10	0.11
(1,3381)	1:113:A:VAL:HG22	1:158:A:VAL:HG23	10	0.11
(1,3381)	1:113:A:VAL:HG23	1:158:A:VAL:HG11	10	0.11
(1,3381)	1:113:A:VAL:HG23	1:158:A:VAL:HG12	10	0.11
(1,3381)	1:113:A:VAL:HG23	1:158:A:VAL:HG13	10	0.11
(1,3381)	1:113:A:VAL:HG23	1:158:A:VAL:HG21	10	0.11
(1,3381)	1:113:A:VAL:HG23	1:158:A:VAL:HG22	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3381)	1:113:A:VAL:HG23	1:158:A:VAL:HG23	10	0.11
(1,3294)	1:108:A:VAL:HG11	1:110:A:LYS:HD2	6	0.11
(1,3294)	1:108:A:VAL:HG11	1:110:A:LYS:HD3	6	0.11
(1,3294)	1:108:A:VAL:HG12	1:110:A:LYS:HD2	6	0.11
(1,3294)	1:108:A:VAL:HG12	1:110:A:LYS:HD3	6	0.11
(1,3294)	1:108:A:VAL:HG13	1:110:A:LYS:HD2	6	0.11
(1,3294)	1:108:A:VAL:HG13	1:110:A:LYS:HD3	6	0.11
(1,3294)	1:108:A:VAL:HG21	1:110:A:LYS:HD2	6	0.11
(1,3294)	1:108:A:VAL:HG21	1:110:A:LYS:HD3	6	0.11
(1,3294)	1:108:A:VAL:HG22	1:110:A:LYS:HD2	6	0.11
(1,3294)	1:108:A:VAL:HG22	1:110:A:LYS:HD3	6	0.11
(1,3294)	1:108:A:VAL:HG23	1:110:A:LYS:HD2	6	0.11
(1,3294)	1:108:A:VAL:HG23	1:110:A:LYS:HD3	6	0.11
(1,3234)	1:96:A:PRO:HB2	1:103:A:ASN:HD21	4	0.11
(1,3234)	1:96:A:PRO:HB2	1:103:A:ASN:HD22	4	0.11
(1,3234)	1:96:A:PRO:HB3	1:103:A:ASN:HD21	4	0.11
(1,3234)	1:96:A:PRO:HB3	1:103:A:ASN:HD22	4	0.11
(1,3222)	1:95:A:ARG:HA	1:95:A:ARG:HD2	4	0.11
(1,3222)	1:95:A:ARG:HA	1:95:A:ARG:HD3	4	0.11
(1,3158)	1:81:A:LEU:HD11	1:85:A:CYS:H	10	0.11
(1,3158)	1:81:A:LEU:HD12	1:85:A:CYS:H	10	0.11
(1,3158)	1:81:A:LEU:HD13	1:85:A:CYS:H	10	0.11
(1,3158)	1:81:A:LEU:HD21	1:85:A:CYS:H	10	0.11
(1,3158)	1:81:A:LEU:HD22	1:85:A:CYS:H	10	0.11
(1,3158)	1:81:A:LEU:HD23	1:85:A:CYS:H	10	0.11
(1,3029)	1:62:A:VAL:HG11	1:67:A:ILE:HB	5	0.11
(1,3029)	1:62:A:VAL:HG12	1:67:A:ILE:HB	5	0.11
(1,3029)	1:62:A:VAL:HG13	1:67:A:ILE:HB	5	0.11
(1,3029)	1:62:A:VAL:HG21	1:67:A:ILE:HB	5	0.11
(1,3029)	1:62:A:VAL:HG22	1:67:A:ILE:HB	5	0.11
(1,3029)	1:62:A:VAL:HG23	1:67:A:ILE:HB	5	0.11
(1,2908)	1:40:A:LEU:HD11	1:81:A:LEU:HD11	6	0.11
(1,2908)	1:40:A:LEU:HD11	1:81:A:LEU:HD12	6	0.11
(1,2908)	1:40:A:LEU:HD11	1:81:A:LEU:HD13	6	0.11
(1,2908)	1:40:A:LEU:HD11	1:81:A:LEU:HD21	6	0.11
(1,2908)	1:40:A:LEU:HD11	1:81:A:LEU:HD22	6	0.11
(1,2908)	1:40:A:LEU:HD11	1:81:A:LEU:HD23	6	0.11
(1,2908)	1:40:A:LEU:HD12	1:81:A:LEU:HD11	6	0.11
(1,2908)	1:40:A:LEU:HD12	1:81:A:LEU:HD12	6	0.11
(1,2908)	1:40:A:LEU:HD12	1:81:A:LEU:HD13	6	0.11
(1,2908)	1:40:A:LEU:HD12	1:81:A:LEU:HD21	6	0.11
(1,2908)	1:40:A:LEU:HD12	1:81:A:LEU:HD22	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2908)	1:40:A:LEU:HD12	1:81:A:LEU:HD23	6	0.11
(1,2908)	1:40:A:LEU:HD13	1:81:A:LEU:HD11	6	0.11
(1,2908)	1:40:A:LEU:HD13	1:81:A:LEU:HD12	6	0.11
(1,2908)	1:40:A:LEU:HD13	1:81:A:LEU:HD13	6	0.11
(1,2908)	1:40:A:LEU:HD13	1:81:A:LEU:HD21	6	0.11
(1,2908)	1:40:A:LEU:HD13	1:81:A:LEU:HD22	6	0.11
(1,2908)	1:40:A:LEU:HD13	1:81:A:LEU:HD23	6	0.11
(1,2908)	1:40:A:LEU:HD21	1:81:A:LEU:HD11	6	0.11
(1,2908)	1:40:A:LEU:HD21	1:81:A:LEU:HD12	6	0.11
(1,2908)	1:40:A:LEU:HD21	1:81:A:LEU:HD13	6	0.11
(1,2908)	1:40:A:LEU:HD21	1:81:A:LEU:HD21	6	0.11
(1,2908)	1:40:A:LEU:HD21	1:81:A:LEU:HD22	6	0.11
(1,2908)	1:40:A:LEU:HD21	1:81:A:LEU:HD23	6	0.11
(1,2908)	1:40:A:LEU:HD22	1:81:A:LEU:HD11	6	0.11
(1,2908)	1:40:A:LEU:HD22	1:81:A:LEU:HD12	6	0.11
(1,2908)	1:40:A:LEU:HD22	1:81:A:LEU:HD13	6	0.11
(1,2908)	1:40:A:LEU:HD22	1:81:A:LEU:HD21	6	0.11
(1,2908)	1:40:A:LEU:HD22	1:81:A:LEU:HD22	6	0.11
(1,2908)	1:40:A:LEU:HD22	1:81:A:LEU:HD23	6	0.11
(1,2908)	1:40:A:LEU:HD23	1:81:A:LEU:HD11	6	0.11
(1,2908)	1:40:A:LEU:HD23	1:81:A:LEU:HD12	6	0.11
(1,2908)	1:40:A:LEU:HD23	1:81:A:LEU:HD13	6	0.11
(1,2908)	1:40:A:LEU:HD23	1:81:A:LEU:HD21	6	0.11
(1,2908)	1:40:A:LEU:HD23	1:81:A:LEU:HD22	6	0.11
(1,2908)	1:40:A:LEU:HD23	1:81:A:LEU:HD23	6	0.11
(1,2893)	1:39:A:TRP:HH2	1:58:A:LYS:HE2	10	0.11
(1,2893)	1:39:A:TRP:HH2	1:58:A:LYS:HE3	10	0.11
(1,2767)	1:110:A:LYS:H	1:192:A:LYS:HG2	5	0.11
(1,2767)	1:110:A:LYS:H	1:192:A:LYS:HG3	5	0.11
(1,2754)	1:110:A:LYS:HB3	1:188:A:ALA:HB1	6	0.11
(1,2754)	1:110:A:LYS:HB3	1:188:A:ALA:HB2	6	0.11
(1,2754)	1:110:A:LYS:HB3	1:188:A:ALA:HB3	6	0.11
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	10	0.11
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	10	0.11
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	10	0.11
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	10	0.11
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	10	0.11
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	10	0.11
(1,2638)	1:117:A:SER:HA	1:184:A:ILE:HA	8	0.11
(1,2637)	1:114:A:PRO:HG3	1:184:A:ILE:HA	2	0.11
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD21	10	0.11
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD22	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2520)	1:38:A:PHE:HD1	1:89:A:LEU:HD23	10	0.11
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD21	10	0.11
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD22	10	0.11
(1,2520)	1:38:A:PHE:HD2	1:89:A:LEU:HD23	10	0.11
(1,2458)	1:78:A:VAL:HG11	1:149:A:VAL:HG11	10	0.11
(1,2458)	1:78:A:VAL:HG11	1:149:A:VAL:HG12	10	0.11
(1,2458)	1:78:A:VAL:HG11	1:149:A:VAL:HG13	10	0.11
(1,2458)	1:78:A:VAL:HG12	1:149:A:VAL:HG11	10	0.11
(1,2458)	1:78:A:VAL:HG12	1:149:A:VAL:HG12	10	0.11
(1,2458)	1:78:A:VAL:HG12	1:149:A:VAL:HG13	10	0.11
(1,2458)	1:78:A:VAL:HG13	1:149:A:VAL:HG11	10	0.11
(1,2458)	1:78:A:VAL:HG13	1:149:A:VAL:HG12	10	0.11
(1,2458)	1:78:A:VAL:HG13	1:149:A:VAL:HG13	10	0.11
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG11	2	0.11
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG12	2	0.11
(1,2349)	1:134:A:PHE:HE1	1:147:A:VAL:HG13	2	0.11
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG11	2	0.11
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG12	2	0.11
(1,2349)	1:134:A:PHE:HE2	1:147:A:VAL:HG13	2	0.11
(1,2328)	1:144:A:ILE:HD11	1:173:A:VAL:HG21	1	0.11
(1,2328)	1:144:A:ILE:HD11	1:173:A:VAL:HG22	1	0.11
(1,2328)	1:144:A:ILE:HD11	1:173:A:VAL:HG23	1	0.11
(1,2328)	1:144:A:ILE:HD12	1:173:A:VAL:HG21	1	0.11
(1,2328)	1:144:A:ILE:HD12	1:173:A:VAL:HG22	1	0.11
(1,2328)	1:144:A:ILE:HD12	1:173:A:VAL:HG23	1	0.11
(1,2328)	1:144:A:ILE:HD13	1:173:A:VAL:HG21	1	0.11
(1,2328)	1:144:A:ILE:HD13	1:173:A:VAL:HG22	1	0.11
(1,2328)	1:144:A:ILE:HD13	1:173:A:VAL:HG23	1	0.11
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG21	1	0.11
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG22	1	0.11
(1,2219)	1:134:A:PHE:HE1	1:147:A:VAL:HG23	1	0.11
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG21	1	0.11
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG22	1	0.11
(1,2219)	1:134:A:PHE:HE2	1:147:A:VAL:HG23	1	0.11
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG21	8	0.11
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG22	8	0.11
(1,2139)	1:32:A:LEU:HB2	1:64:A:THR:HG23	8	0.11
(1,2093)	1:98:A:TRP:HD1	1:161:A:TRP:HE3	7	0.11
(1,2059)	1:188:A:ALA:HB1	1:190:A:PHE:HZ	9	0.11
(1,2059)	1:188:A:ALA:HB2	1:190:A:PHE:HZ	9	0.11
(1,2059)	1:188:A:ALA:HB3	1:190:A:PHE:HZ	9	0.11
(1,1887)	1:33:A:HIS:HB3	1:132:A:GLU:HB2	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1887)	1:33:A:HIS:HB3	1:132:A:GLU:HB3	2	0.11
(1,1815)	1:115:A:LYS:HD3	1:155:A:GLU:HA	3	0.11
(1,1779)	1:31:A:PRO:HB2	1:64:A:THR:HA	8	0.11
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD1	2	0.11
(1,1455)	1:129:A:THR:HB	1:134:A:PHE:HD2	2	0.11
(1,1405)	1:144:A:ILE:HD11	1:162:A:ASN:HB3	4	0.11
(1,1405)	1:144:A:ILE:HD12	1:162:A:ASN:HB3	4	0.11
(1,1405)	1:144:A:ILE:HD13	1:162:A:ASN:HB3	4	0.11
(1,1330)	1:150:A:SER:HB2	1:157:A:VAL:HB	5	0.11
(1,1237)	1:16:A:LEU:H	1:17:A:ASP:H	3	0.11
(1,996)	1:37:A:THR:HG21	1:60:A:TYR:H	6	0.11
(1,996)	1:37:A:THR:HG22	1:60:A:TYR:H	6	0.11
(1,996)	1:37:A:THR:HG23	1:60:A:TYR:H	6	0.11
(1,886)	1:34:A:SER:H	1:36:A:TRP:HD1	1	0.11
(1,736)	1:97:A:LEU:H	1:103:A:ASN:HD22	8	0.11
(1,718)	1:100:A:GLU:H	1:103:A:ASN:HB2	4	0.11
(1,718)	1:100:A:GLU:H	1:103:A:ASN:HB3	4	0.11
(1,601)	1:129:A:THR:HG21	1:134:A:PHE:H	3	0.11
(1,601)	1:129:A:THR:HG22	1:134:A:PHE:H	3	0.11
(1,601)	1:129:A:THR:HG23	1:134:A:PHE:H	3	0.11
(1,410)	1:164:A:ASN:H	1:167:A:LEU:HD21	3	0.11
(1,410)	1:164:A:ASN:H	1:167:A:LEU:HD22	3	0.11
(1,410)	1:164:A:ASN:H	1:167:A:LEU:HD23	3	0.11
(1,389)	1:106:A:GLY:HA3	1:165:A:ALA:H	5	0.11
(1,364)	1:167:A:LEU:HD21	1:168:A:VAL:H	5	0.11
(1,364)	1:167:A:LEU:HD22	1:168:A:VAL:H	5	0.11
(1,364)	1:167:A:LEU:HD23	1:168:A:VAL:H	5	0.11
(2,106)	1:172:A:THR:O	1:176:A:LYS:N	6	0.1
(2,105)	1:172:A:THR:O	1:176:A:LYS:H	4	0.1
(2,100)	1:107:A:GLY:O	1:162:A:ASN:N	1	0.1
(2,99)	1:107:A:GLY:O	1:162:A:ASN:H	10	0.1
(2,97)	1:146:A:GLY:O	1:161:A:TRP:H	6	0.1
(2,87)	1:152:A:ARG:H	1:155:A:GLU:O	8	0.1
(2,73)	1:145:A:ILE:H	1:161:A:TRP:O	2	0.1
(2,63)	1:123:A:LYS:O	1:127:A:LEU:H	8	0.1
(2,51)	1:117:A:SER:O	1:121:A:VAL:H	9	0.1
(2,48)	1:111:A:MET:N	1:158:A:VAL:O	1	0.1
(2,9)	1:40:A:LEU:H	1:57:A:LYS:O	3	0.1
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM71	7	0.1
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM72	7	0.1
(1,3820)	1:161:A:TRP:HZ2	2:208:A:M7G:HM73	7	0.1
(1,3818)	1:98:A:TRP:HZ3	2:208:A:M7G:H2'	1	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM71	4	0.1
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM72	4	0.1
(1,3809)	1:97:A:LEU:HD21	2:208:A:M7G:HM73	4	0.1
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM71	4	0.1
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM72	4	0.1
(1,3809)	1:97:A:LEU:HD22	2:208:A:M7G:HM73	4	0.1
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM71	4	0.1
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM72	4	0.1
(1,3809)	1:97:A:LEU:HD23	2:208:A:M7G:HM73	4	0.1
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM71	8	0.1
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM72	8	0.1
(1,3806)	1:52:A:CYS:HB2	2:208:A:M7G:HM73	8	0.1
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM71	8	0.1
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM72	8	0.1
(1,3806)	1:52:A:CYS:HB3	2:208:A:M7G:HM73	8	0.1
(1,3704)	1:173:A:VAL:HG11	1:174:A:LEU:HD21	10	0.1
(1,3704)	1:173:A:VAL:HG11	1:174:A:LEU:HD22	10	0.1
(1,3704)	1:173:A:VAL:HG11	1:174:A:LEU:HD23	10	0.1
(1,3704)	1:173:A:VAL:HG12	1:174:A:LEU:HD21	10	0.1
(1,3704)	1:173:A:VAL:HG12	1:174:A:LEU:HD22	10	0.1
(1,3704)	1:173:A:VAL:HG12	1:174:A:LEU:HD23	10	0.1
(1,3704)	1:173:A:VAL:HG13	1:174:A:LEU:HD21	10	0.1
(1,3704)	1:173:A:VAL:HG13	1:174:A:LEU:HD22	10	0.1
(1,3704)	1:173:A:VAL:HG13	1:174:A:LEU:HD23	10	0.1
(1,3704)	1:173:A:VAL:HG21	1:174:A:LEU:HD21	10	0.1
(1,3704)	1:173:A:VAL:HG21	1:174:A:LEU:HD22	10	0.1
(1,3704)	1:173:A:VAL:HG21	1:174:A:LEU:HD23	10	0.1
(1,3704)	1:173:A:VAL:HG22	1:174:A:LEU:HD21	10	0.1
(1,3704)	1:173:A:VAL:HG22	1:174:A:LEU:HD22	10	0.1
(1,3704)	1:173:A:VAL:HG22	1:174:A:LEU:HD23	10	0.1
(1,3704)	1:173:A:VAL:HG23	1:174:A:LEU:HD21	10	0.1
(1,3704)	1:173:A:VAL:HG23	1:174:A:LEU:HD22	10	0.1
(1,3704)	1:173:A:VAL:HG23	1:174:A:LEU:HD23	10	0.1
(1,3553)	1:143:A:GLU:H	1:162:A:ASN:HB2	9	0.1
(1,3553)	1:143:A:GLU:H	1:162:A:ASN:HB3	9	0.1
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD11	2	0.1
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD12	2	0.1
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD13	2	0.1
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD21	2	0.1
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD22	2	0.1
(1,3426)	1:120:A:THR:HG21	1:181:A:LEU:HD23	2	0.1
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD11	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD12	2	0.1
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD13	2	0.1
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD21	2	0.1
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD22	2	0.1
(1,3426)	1:120:A:THR:HG22	1:181:A:LEU:HD23	2	0.1
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD11	2	0.1
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD12	2	0.1
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD13	2	0.1
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD21	2	0.1
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD22	2	0.1
(1,3426)	1:120:A:THR:HG23	1:181:A:LEU:HD23	2	0.1
(1,3324)	1:109:A:TRP:HH2	1:168:A:VAL:HG11	1	0.1
(1,3324)	1:109:A:TRP:HH2	1:168:A:VAL:HG12	1	0.1
(1,3324)	1:109:A:TRP:HH2	1:168:A:VAL:HG13	1	0.1
(1,3324)	1:109:A:TRP:HH2	1:168:A:VAL:HG21	1	0.1
(1,3324)	1:109:A:TRP:HH2	1:168:A:VAL:HG22	1	0.1
(1,3324)	1:109:A:TRP:HH2	1:168:A:VAL:HG23	1	0.1
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD11	1	0.1
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD12	1	0.1
(1,3295)	1:108:A:VAL:HG11	1:145:A:ILE:HD13	1	0.1
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD11	1	0.1
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD12	1	0.1
(1,3295)	1:108:A:VAL:HG12	1:145:A:ILE:HD13	1	0.1
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD11	1	0.1
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD12	1	0.1
(1,3295)	1:108:A:VAL:HG13	1:145:A:ILE:HD13	1	0.1
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD11	1	0.1
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD12	1	0.1
(1,3295)	1:108:A:VAL:HG21	1:145:A:ILE:HD13	1	0.1
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD11	1	0.1
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD12	1	0.1
(1,3295)	1:108:A:VAL:HG22	1:145:A:ILE:HD13	1	0.1
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD11	1	0.1
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD12	1	0.1
(1,3295)	1:108:A:VAL:HG23	1:145:A:ILE:HD13	1	0.1
(1,3284)	1:107:A:GLY:H	1:108:A:VAL:HG11	8	0.1
(1,3284)	1:107:A:GLY:H	1:108:A:VAL:HG12	8	0.1
(1,3284)	1:107:A:GLY:H	1:108:A:VAL:HG13	8	0.1
(1,3284)	1:107:A:GLY:H	1:108:A:VAL:HG21	8	0.1
(1,3284)	1:107:A:GLY:H	1:108:A:VAL:HG22	8	0.1
(1,3284)	1:107:A:GLY:H	1:108:A:VAL:HG23	8	0.1
(1,3166)	1:81:A:LEU:HD11	1:151:A:VAL:HB	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3166)	1:81:A:LEU:HD12	1:151:A:VAL:HB	2	0.1
(1,3166)	1:81:A:LEU:HD13	1:151:A:VAL:HB	2	0.1
(1,3166)	1:81:A:LEU:HD21	1:151:A:VAL:HB	2	0.1
(1,3166)	1:81:A:LEU:HD22	1:151:A:VAL:HB	2	0.1
(1,3166)	1:81:A:LEU:HD23	1:151:A:VAL:HB	2	0.1
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD21	3	0.1
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD22	3	0.1
(1,2737)	1:17:A:ASP:HB2	1:20:A:LEU:HD23	3	0.1
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD21	3	0.1
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD22	3	0.1
(1,2737)	1:17:A:ASP:HB3	1:20:A:LEU:HD23	3	0.1
(1,2704)	1:73:A:ASN:HA	1:73:A:ASN:HD22	3	0.1
(1,2651)	1:39:A:TRP:HB3	1:56:A:LEU:HD11	4	0.1
(1,2651)	1:39:A:TRP:HB3	1:56:A:LEU:HD12	4	0.1
(1,2651)	1:39:A:TRP:HB3	1:56:A:LEU:HD13	4	0.1
(1,2637)	1:114:A:PRO:HG3	1:184:A:ILE:HA	7	0.1
(1,2637)	1:114:A:PRO:HG3	1:184:A:ILE:HA	9	0.1
(1,2629)	1:42:A:ARG:HG2	1:43:A:SER:HA	2	0.1
(1,2629)	1:42:A:ARG:HG3	1:43:A:SER:HA	2	0.1
(1,2608)	1:37:A:THR:HB	1:58:A:LYS:HD2	2	0.1
(1,2608)	1:37:A:THR:HB	1:58:A:LYS:HD3	2	0.1
(1,2602)	1:56:A:LEU:HD21	1:97:A:LEU:HG	1	0.1
(1,2602)	1:56:A:LEU:HD22	1:97:A:LEU:HG	1	0.1
(1,2602)	1:56:A:LEU:HD23	1:97:A:LEU:HG	1	0.1
(1,2514)	1:89:A:LEU:HD11	1:130:A:ILE:HG21	4	0.1
(1,2514)	1:89:A:LEU:HD11	1:130:A:ILE:HG22	4	0.1
(1,2514)	1:89:A:LEU:HD11	1:130:A:ILE:HG23	4	0.1
(1,2514)	1:89:A:LEU:HD12	1:130:A:ILE:HG21	4	0.1
(1,2514)	1:89:A:LEU:HD12	1:130:A:ILE:HG22	4	0.1
(1,2514)	1:89:A:LEU:HD12	1:130:A:ILE:HG23	4	0.1
(1,2514)	1:89:A:LEU:HD13	1:130:A:ILE:HG21	4	0.1
(1,2514)	1:89:A:LEU:HD13	1:130:A:ILE:HG22	4	0.1
(1,2514)	1:89:A:LEU:HD13	1:130:A:ILE:HG23	4	0.1
(1,2507)	1:133:A:GLN:HA	1:133:A:GLN:HE21	8	0.1
(1,2410)	1:125:A:LEU:HD11	1:177:A:ILE:HB	2	0.1
(1,2410)	1:125:A:LEU:HD12	1:177:A:ILE:HB	2	0.1
(1,2410)	1:125:A:LEU:HD13	1:177:A:ILE:HB	2	0.1
(1,2410)	1:125:A:LEU:HD21	1:177:A:ILE:HB	2	0.1
(1,2410)	1:125:A:LEU:HD22	1:177:A:ILE:HB	2	0.1
(1,2410)	1:125:A:LEU:HD23	1:177:A:ILE:HB	2	0.1
(1,2341)	1:83:A:LEU:HD11	1:152:A:ARG:HA	3	0.1
(1,2341)	1:83:A:LEU:HD12	1:152:A:ARG:HA	3	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2341)	1:83:A:LEU:HD13	1:152:A:ARG:HA	3	0.1
(1,1907)	1:176:A:LYS:HA	1:179:A:GLN:HG2	10	0.1
(1,1851)	1:195:A:GLU:HG2	1:200:A:PHE:HE1	8	0.1
(1,1851)	1:195:A:GLU:HG2	1:200:A:PHE:HE2	8	0.1
(1,1851)	1:195:A:GLU:HG3	1:200:A:PHE:HE1	8	0.1
(1,1851)	1:195:A:GLU:HG3	1:200:A:PHE:HE2	8	0.1
(1,1812)	1:113:A:VAL:HG21	1:115:A:LYS:HA	3	0.1
(1,1812)	1:113:A:VAL:HG22	1:115:A:LYS:HA	3	0.1
(1,1812)	1:113:A:VAL:HG23	1:115:A:LYS:HA	3	0.1
(1,1632)	1:83:A:LEU:HD21	1:153:A:ASP:HA	9	0.1
(1,1632)	1:83:A:LEU:HD22	1:153:A:ASP:HA	9	0.1
(1,1632)	1:83:A:LEU:HD23	1:153:A:ASP:HA	9	0.1
(1,1612)	1:42:A:ARG:HG2	1:84:A:ARG:HA	10	0.1
(1,1612)	1:42:A:ARG:HG3	1:84:A:ARG:HA	10	0.1
(1,1440)	1:138:A:ALA:HB1	1:142:A:ASP:HB2	6	0.1
(1,1440)	1:138:A:ALA:HB2	1:142:A:ASP:HB2	6	0.1
(1,1440)	1:138:A:ALA:HB3	1:142:A:ASP:HB2	6	0.1
(1,1195)	1:97:A:LEU:H	1:103:A:ASN:HD21	7	0.1
(1,1143)	1:189:A:VAL:H	1:189:A:VAL:HB	8	0.1
(1,1115)	1:20:A:LEU:H	1:20:A:LEU:HB2	6	0.1
(1,1048)	1:60:A:TYR:HE1	1:71:A:VAL:H	6	0.1
(1,1048)	1:60:A:TYR:HE2	1:71:A:VAL:H	6	0.1
(1,886)	1:34:A:SER:H	1:36:A:TRP:HD1	5	0.1
(1,722)	1:97:A:LEU:HB2	1:100:A:GLU:H	5	0.1
(1,224)	1:113:A:VAL:HB	1:118:A:THR:H	6	0.1
(1,192)	1:48:A:THR:HG21	1:49:A:ALA:H	8	0.1
(1,192)	1:48:A:THR:HG22	1:49:A:ALA:H	8	0.1
(1,192)	1:48:A:THR:HG23	1:49:A:ALA:H	8	0.1
(1,142)	1:186:A:PHE:H	1:186:A:PHE:HD1	10	0.1
(1,142)	1:186:A:PHE:H	1:186:A:PHE:HD2	10	0.1

## 10 Dihedral-angle violation analysis

No dihedral-angle restraints found