WORLDWIDE wwPDB PROTEIN DATA BANK

Full wwPDB NMR Structure Validation Report ⓘ

Jun 4, 2023 – 10:17 AM EDT

PDB ID	:	2N73
BMRB ID	:	25791
Title	:	Solution structure of the ACBD3:PI4KB complex
Authors	:	Veverka, V.; Hexnerova, R.
Deposited on	:	2015-09-02

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

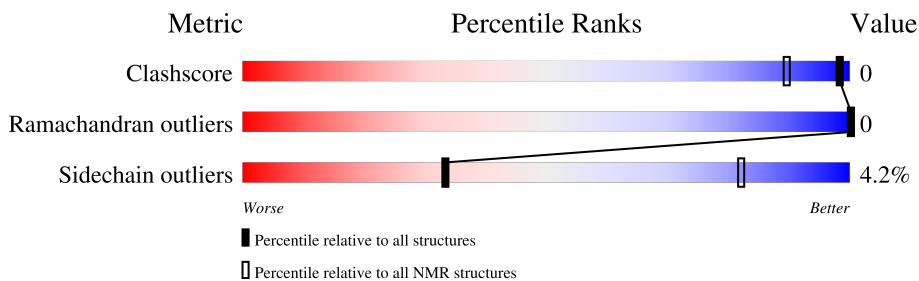|		
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance ⓘ

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

The overall completeness of chemical shifts assignment is 91%.

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	Percentile Ranks	Value
Clashscore		0
Ramachandran outliers		0
Sidechain outliers		4.2%

Worse   *Better*

▮ Percentile relative to all structures
◻ Percentile relative to all NMR structures

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

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

Mol	Chain	Length	Quality of chain
1	A	69	71% • 26%
2	B	80	22% 78%

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2 Ensemble composition and analysis ⓘ

This entry contains 45 models. Model 24 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	**Residue range (total)**	**Backbone RMSD (Å)**	**Medoid model**
1	A:4-A:54, B:155-B:172 (69)	0.27	24

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 7 clusters and 7 single-model clusters were found.

Cluster number	Models
1	1, 6, 7, 8, 9, 15, 22, 23, 26, 33, 40, 41
2	16, 18, 24, 25, 28, 34, 39
3	2, 10, 11, 30, 32, 35
4	5, 13, 19, 31, 37, 45
5	12, 14, 36
6	4, 43
7	29, 42
Single-model clusters	3; 17; 20; 21; 27; 38; 44

3 Entry composition ⓘ

There are 2 unique types of molecules in this entry. The entry contains 2283 atoms, of which 1141 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Golgi resident protein GCP60.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	69	1148	362	565	106	112	3	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP Q9H3P7

- Molecule 2 is a protein called Phosphatidylinositol 4-kinase beta.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
2	B	80	1135	348	576	93	115	3	0

There are 4 discrepancies between the modelled and reference sequences:

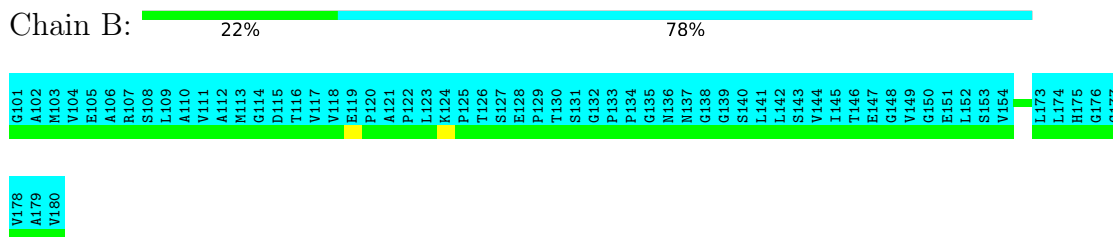| Chain	Residue	Modelled	Actual	Comment	Reference
B	101	GLY	-	expression tag	UNP A0A0B4J1S8
B	102	ALA	-	expression tag	UNP A0A0B4J1S8
B	103	MET	-	expression tag	UNP A0A0B4J1S8
B	104	VAL	-	expression tag	UNP A0A0B4J1S8

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: Golgi resident protein GCP60

Chain A:

71%   .   26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

- Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

22%   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177
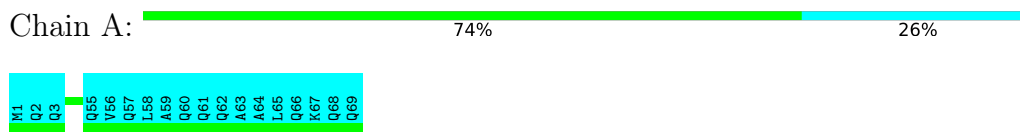
V178 A179 V180
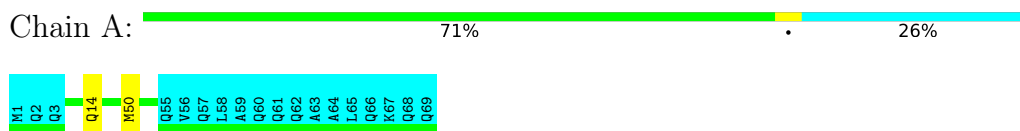
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1
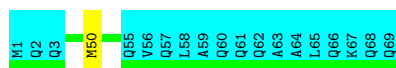
- Molecule 1: Golgi resident protein GCP60

Chain A:

74%   26%

M1 Q2 Q3 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

- Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

21%   .   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 T155 D156 L173 L174 H175

G176 G177 V178 A179 V180
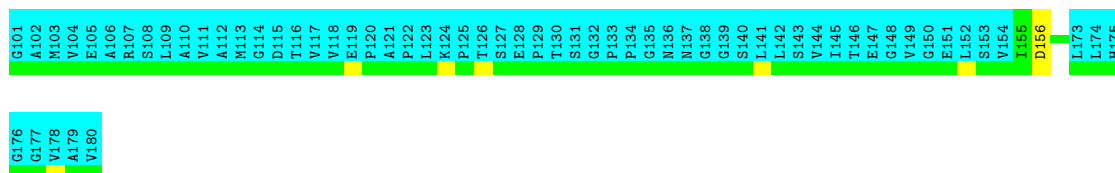
4.2.2 Score per residue for model 2

• Molecule 1: Golgi resident protein GCP60

Chain A: 72% • 26%

M1 Q2 Q3 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21% • 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 K170 L173 L174 H175

G176 G177 V178 A179 V180
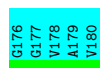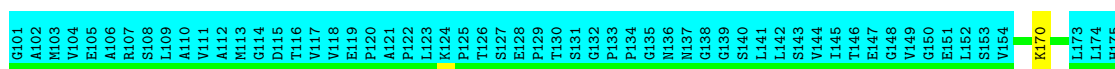
4.2.3 Score per residue for model 3

• Molecule 1: Golgi resident protein GCP60

Chain A: 71% • 26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 20% • 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 E166 V167 L168 L173

L174 H175 G176 G177 V178 A179 V180
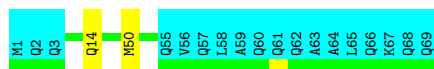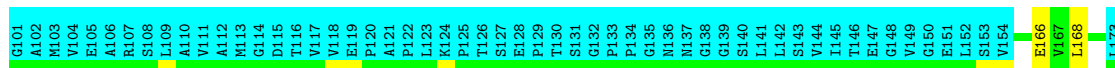
4.2.4 Score per residue for model 4

• Molecule 1: Golgi resident protein GCP60

Chain A:

68%　　6%　　26%

M1 Q2 Q3 Q14 A23 Q33 L37 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

21%　　78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 Q161 L173 L174 H175

G176 G177 V178 A179 V180
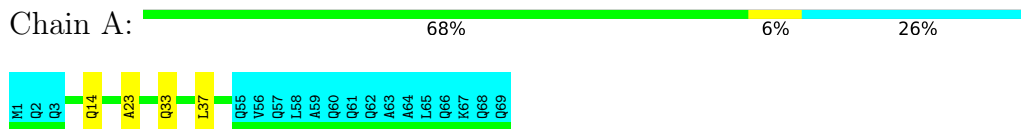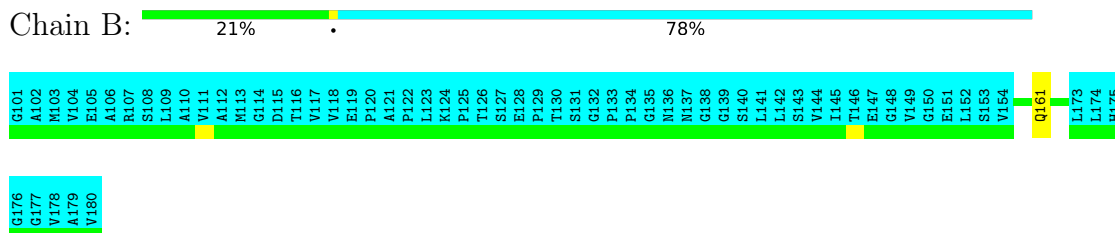
4.2.5　Score per residue for model 5

• Molecule 1: Golgi resident protein GCP60

Chain A:

68%　　6%　　26%

M1 Q2 Q3 N12 S13 Q14 M50 Q51 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

21%　　78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L168 L173 L174 H175

G176 G177 V178 A179 V180
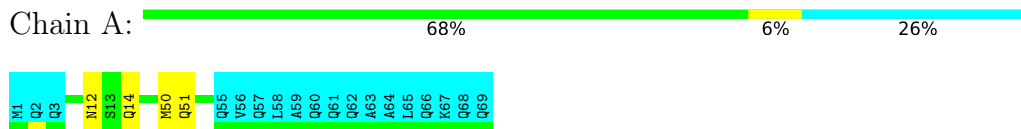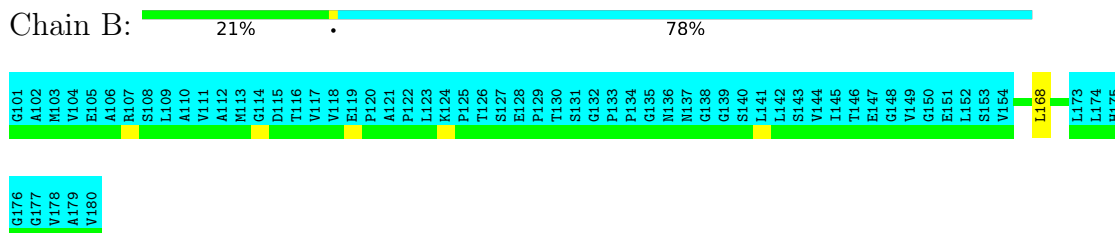
4.2.6　Score per residue for model 6

• Molecule 1: Golgi resident protein GCP60

Chain A:

71%　　26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

21%　　78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L168 L173 L174 H175

G176 G177 V178 A179 V180
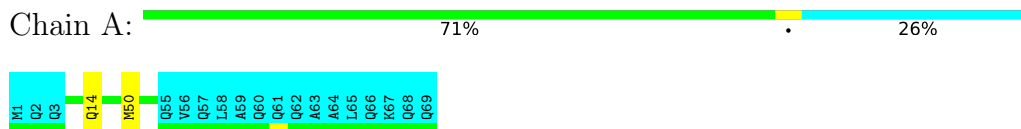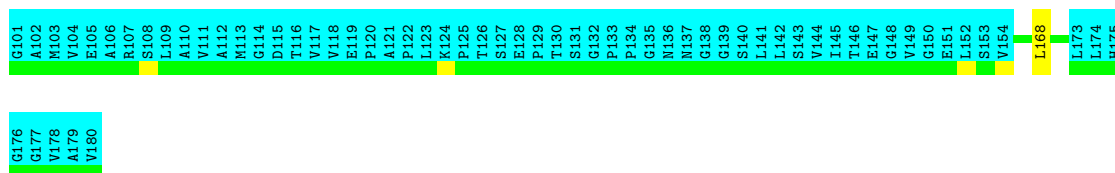
4.2.7 Score per residue for model 7

• Molecule 1: Golgi resident protein GCP60

Chain A: 71%   •   26%

M1 Q2 Q3 A23 L37 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22%   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
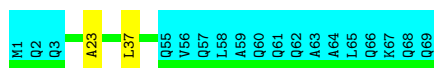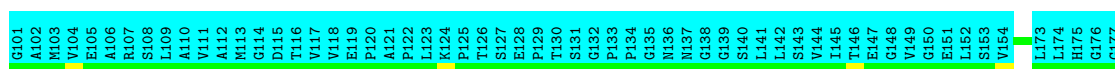
4.2.8 Score per residue for model 8

• Molecule 1: Golgi resident protein GCP60

Chain A: 70%   •   26%

M1 Q2 Q3 Q14 N30 R39 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22%   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
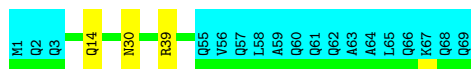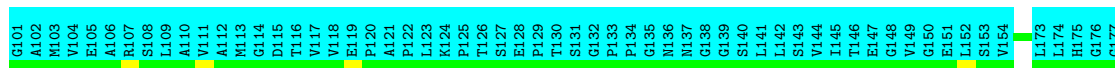
4.2.9 Score per residue for model 9

• Molecule 1: Golgi resident protein GCP60

Chain A: 72% • 26%

M1 Q2 Q3 Q14 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
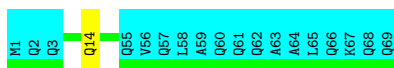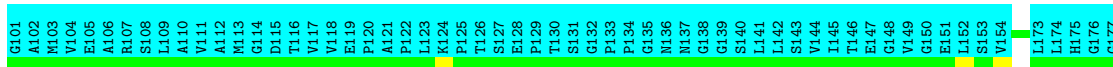
4.2.10 Score per residue for model 10

• Molecule 1: Golgi resident protein GCP60

Chain A: 70% • 26%

M1 Q2 Q3 N12 S13 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
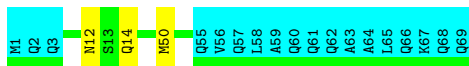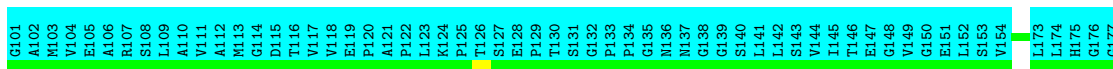
4.2.11 Score per residue for model 11

• Molecule 1: Golgi resident protein GCP60

Chain A: 71% • 26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 M136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
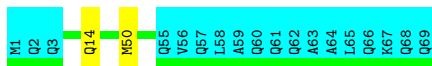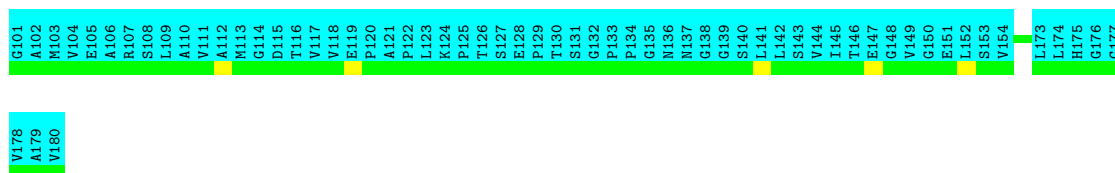
4.2.12 Score per residue for model 12

• Molecule 1: Golgi resident protein GCP60

Chain A: 68%   6%   26%

M1 Q2 Q3 Q14 A23 Y27 L37 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 20%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 M136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 C164 L168 L173

L174 H175 G176 G177 V178 A179 V180
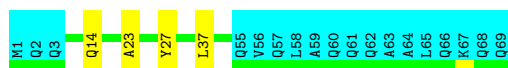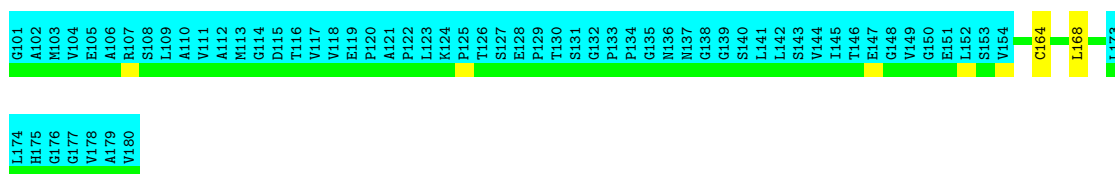
4.2.13 Score per residue for model 13

• Molecule 1: Golgi resident protein GCP60

Chain A: 70%   •   26%

M1 Q2 Q3 Q14 M50 Q51 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 M136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 K170 L173 L174 H175

G176 G177 V178 A179 V180
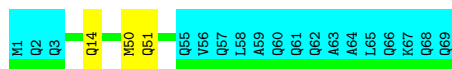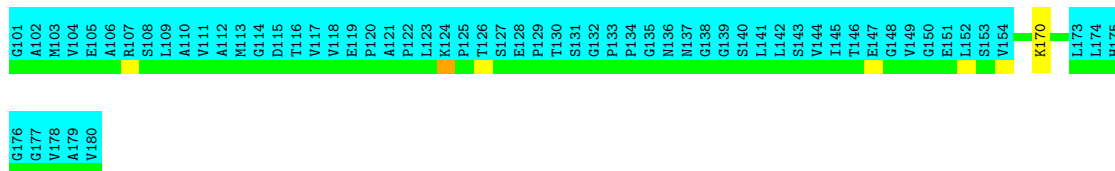
4.2.14 Score per residue for model 14

• Molecule 1: Golgi resident protein GCP60

Chain A: 72% • 26%

M1 Q2 Q3 Q14 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21% • 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 V159 L173 L174 H175

G176 G177 V178 A179 V180
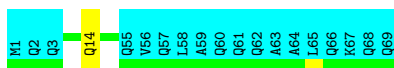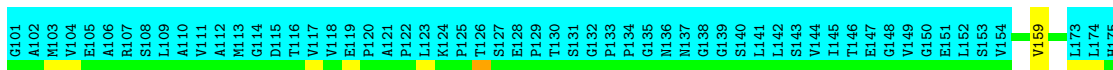
4.2.15 Score per residue for model 15

• Molecule 1: Golgi resident protein GCP60

Chain A: 74% 26%

M1 Q2 Q3 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 20% • 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 Q165 L168 L173

L174 H175 G176 G177 V178 A179 V180
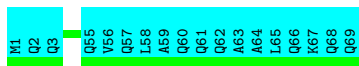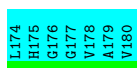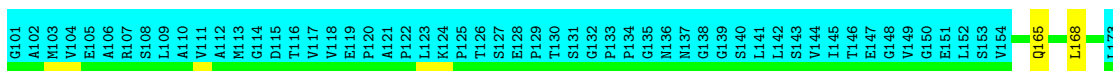
4.2.16 Score per residue for model 16

• Molecule 1: Golgi resident protein GCP60

Chain A: 71% • 26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21% • 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L168 L173 L174 H175

G176 G177 V178 A179 V180
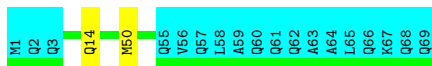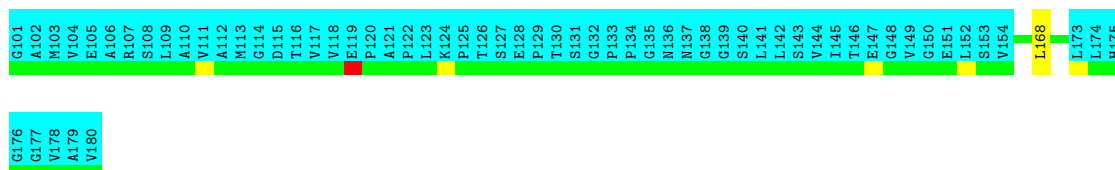
4.2.17 Score per residue for model 17

- Molecule 1: Golgi resident protein GCP60

Chain A: 71%   •   26%

M1 Q2 Q3 Q33 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

- Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 I155 L173 L174 H175 G176

G177 V178 A179 V180
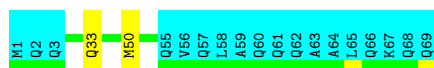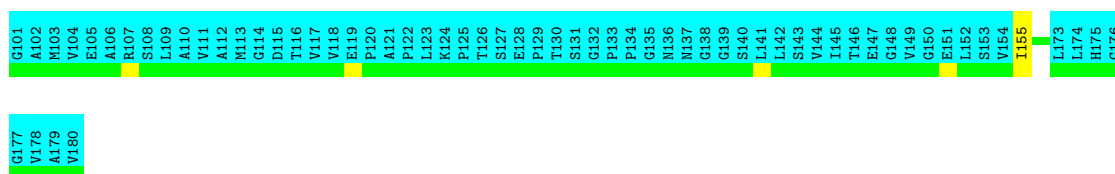
4.2.18 Score per residue for model 18

- Molecule 1: Golgi resident protein GCP60

Chain A: 72%   •   26%

M1 Q2 Q3 Q14 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

- Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L168 L173 L174 H175

G176 G177 V178 A179 V180
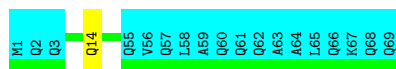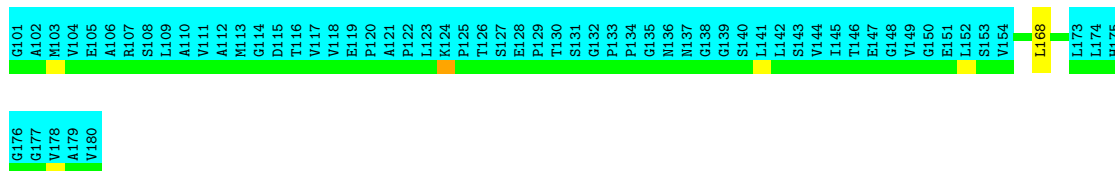
4.2.19 Score per residue for model 19

- Molecule 1: Golgi resident protein GCP60

Chain A:

71%   •   26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

21%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 V159 L173 L174 H175

G176 G177 V178 A179 V180
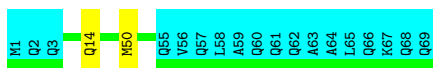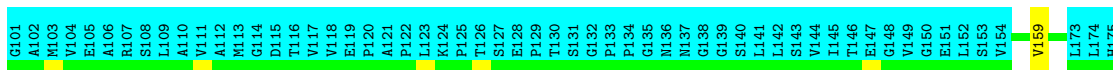
4.2.20 Score per residue for model 20

• Molecule 1: Golgi resident protein GCP60

Chain A:

68%   6%   26%

M1 Q2 Q3 Q33 L41 M50 Q51 Q52 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

20%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 I155 K170 L173 L174

H175 G176 G177 V178 A179 V180
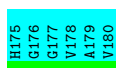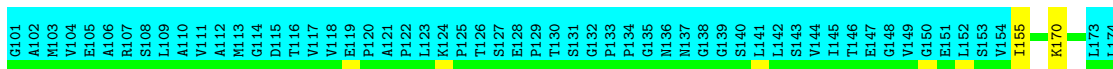
4.2.21 Score per residue for model 21

• Molecule 1: Golgi resident protein GCP60

Chain A:

71%   •   26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

21%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 I155 L173 L174 H175 G176

G177 V178 A179 V180
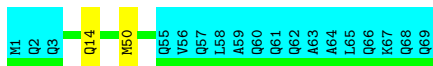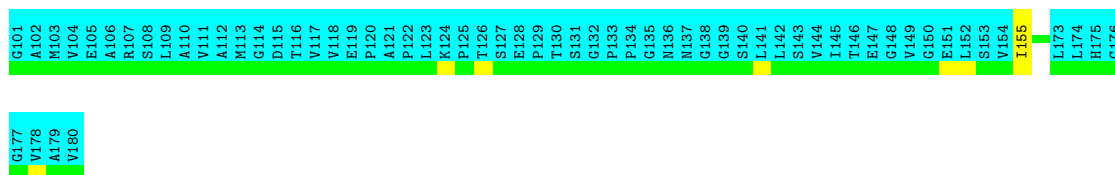
4.2.22 Score per residue for model 22

- Molecule 1: Golgi resident protein GCP60

Chain A: 72% . 26%

M1 Q2 Q3 Q14 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

- Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
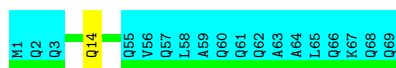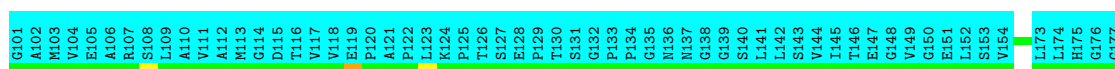
4.2.23 Score per residue for model 23

- Molecule 1: Golgi resident protein GCP60

Chain A: 71% . 26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

- Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21% . 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 E166 L173 L174 H175

G176 G177 V178 A179 V180
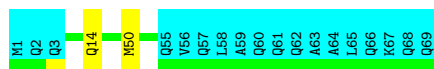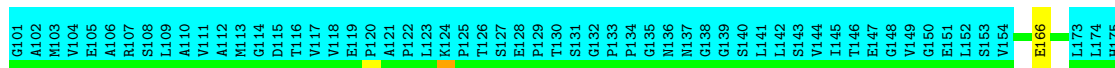
4.2.24 Score per residue for model 24 (medoid)

- Molecule 1: Golgi resident protein GCP60

Chain A: 70% · 26%

M1 Q2 Q3 Q14 R39 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
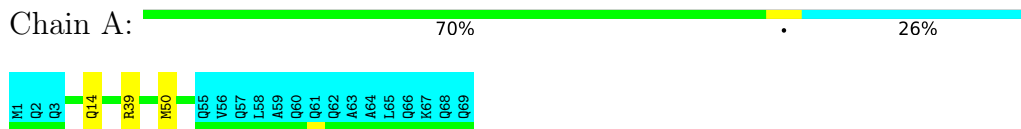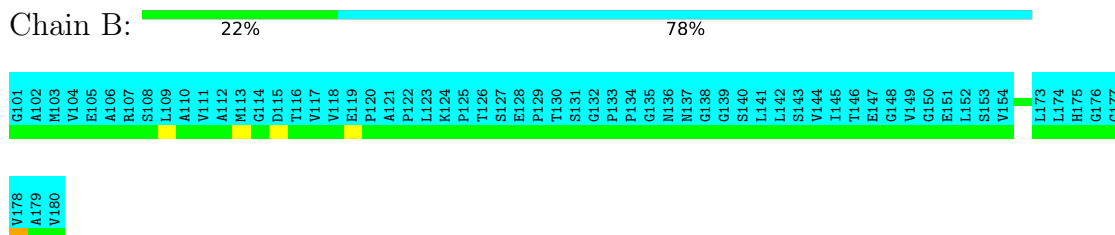
4.2.25 Score per residue for model 25

• Molecule 1: Golgi resident protein GCP60

Chain A: 70% · 26%

M1 Q2 Q3 Q14 N30 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
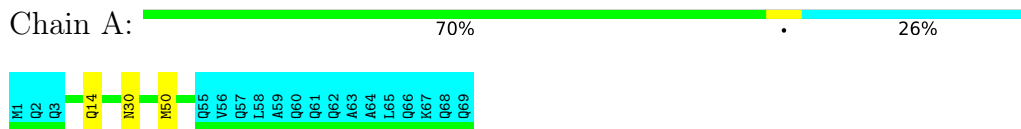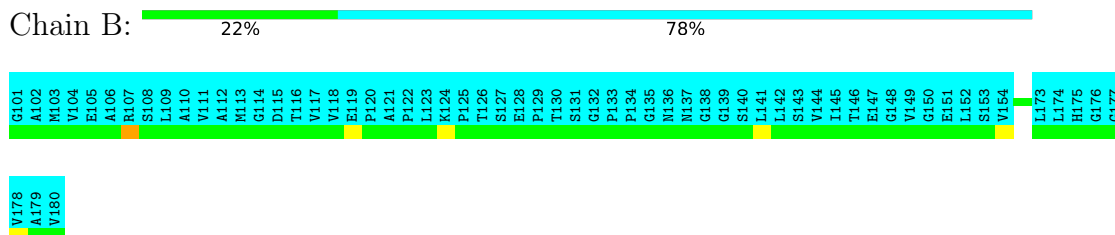
4.2.26 Score per residue for model 26

• Molecule 1: Golgi resident protein GCP60

Chain A: 67% 7% 26%

M1 Q2 Q3 Q14 A23 L37 L41 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21% · 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 M136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L168 L173 L174 H175

G176 G177 V178 A179 V180
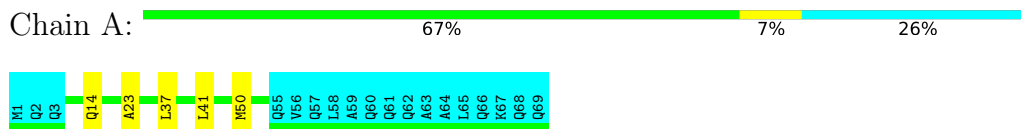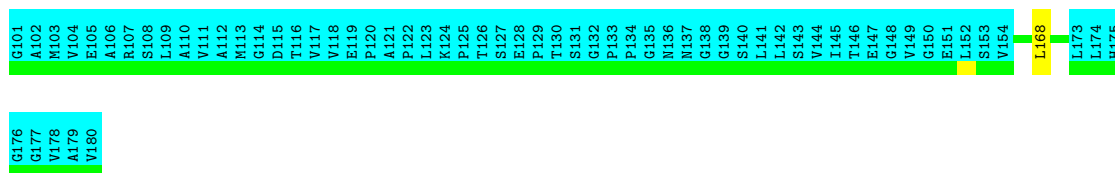
4.2.27 Score per residue for model 27

• Molecule 1: Golgi resident protein GCP60

Chain A:
70% • 26%

M1 Q2 Q3 Q14 L41 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:
22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 M136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
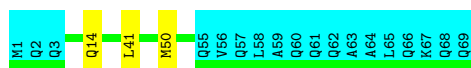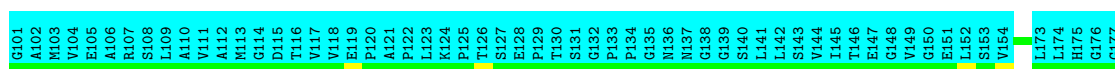
4.2.28 Score per residue for model 28

• Molecule 1: Golgi resident protein GCP60

Chain A:
71% • 26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:
22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 M136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
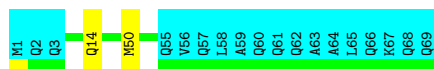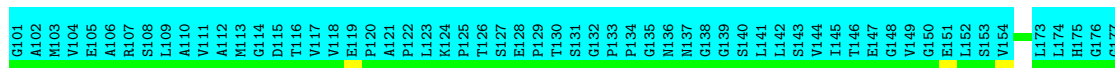
4.2.29 Score per residue for model 29

• Molecule 1: Golgi resident protein GCP60

Chain A: 71% • 26%

M1 Q2 Q3 Q14 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 20% • 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 I155 V159 L173 L174

H175 G176 G177 V178 A179 V180
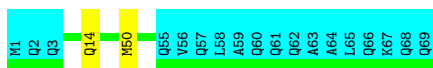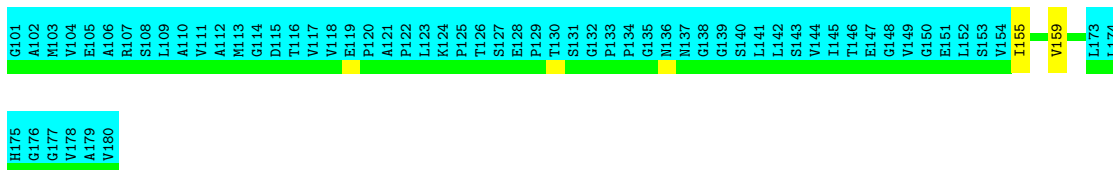
4.2.30 Score per residue for model 30

• Molecule 1: Golgi resident protein GCP60

Chain A: 67% 7% 26%

M1 Q2 Q3 N12 S13 Q14 A23 L37 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
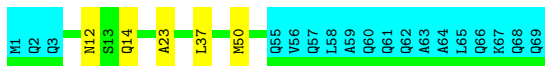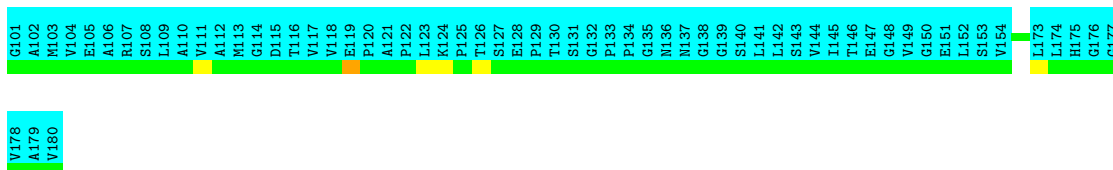
4.2.31 Score per residue for model 31

• Molecule 1: Golgi resident protein GCP60

Chain A: 70% • 26%

M1 Q2 Q3 Q14 A23 L37 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 18% 5% 78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 I155 D156 P157 E158 V159

L168 L173 L174 H175 G176 G177 V178 A179 V180
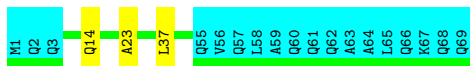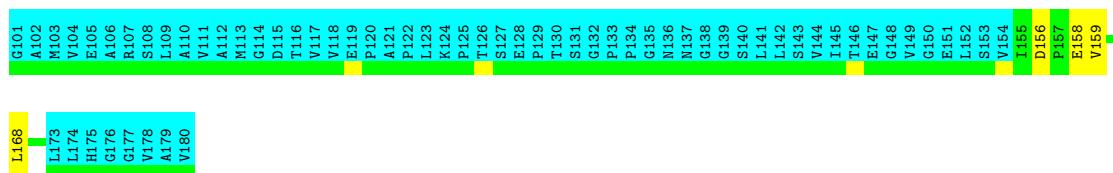
4.2.32 Score per residue for model 32

• Molecule 1: Golgi resident protein GCP60

Chain A: 72%   •   26%

M1 Q2 Q3 N30 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22%   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
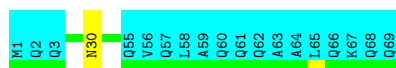
4.2.33 Score per residue for model 33

• Molecule 1: Golgi resident protein GCP60

Chain A: 72%   •   26%

M1 Q2 Q3 Q14 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22%   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
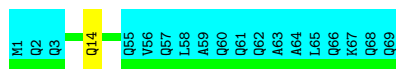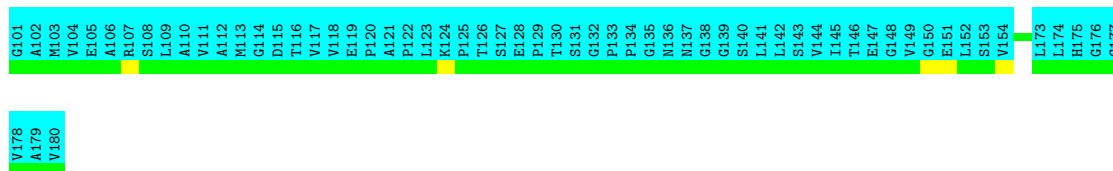
4.2.34 Score per residue for model 34

• Molecule 1: Golgi resident protein GCP60

Chain A: 72%   ·   26%

M1 Q2 Q3 Q14 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22%   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
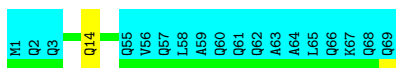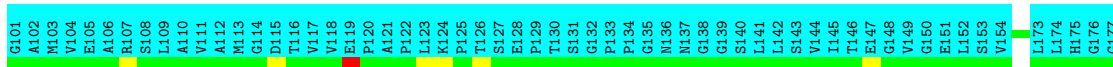
4.2.35   Score per residue for model 35

• Molecule 1: Golgi resident protein GCP60

Chain A: 74%   26%

M1 Q2 Q3 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21%   ·   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 K170 L173 L174 H175

G176 G177 V178 A179 V180
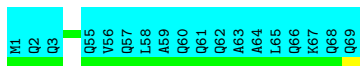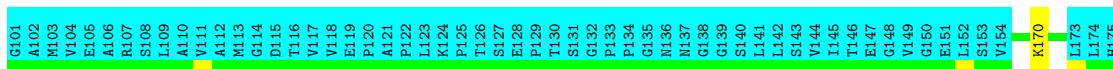
4.2.36   Score per residue for model 36

• Molecule 1: Golgi resident protein GCP60

Chain A: 70%   ·   26%

M1 Q2 Q3 Q14 M50 Q51 Q52 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21%   ·   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 V159 L173 L174 H175

G176 G177 V178 A179 V180
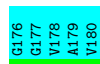
4.2.37 Score per residue for model 37

• Molecule 1: Golgi resident protein GCP60

Chain A: 74%   26%

M1 Q2 Q3 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 20%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L168 E169 K170 L173

L174 H175 G176 G177 V178 A179 V180

4.2.38 Score per residue for model 38

• Molecule 1: Golgi resident protein GCP60

Chain A: 72%   •   26%

M1 Q2 Q3 Q14 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 21%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 V159 L173 L174 H175
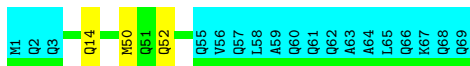
G176 G177 V178 A179 V180

4.2.39 Score per residue for model 39

• Molecule 1: Golgi resident protein GCP60

Chain A: 70%   •   26%

M1 Q2 Q3 Q14 A23 L37 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22%   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180

4.2.40   Score per residue for model 40

• Molecule 1: Golgi resident protein GCP60

Chain A: 72%   •   26%

M1 Q2 Q3 Q14 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 22%   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L173 L174 H175 G176 G177

V178 A179 V180
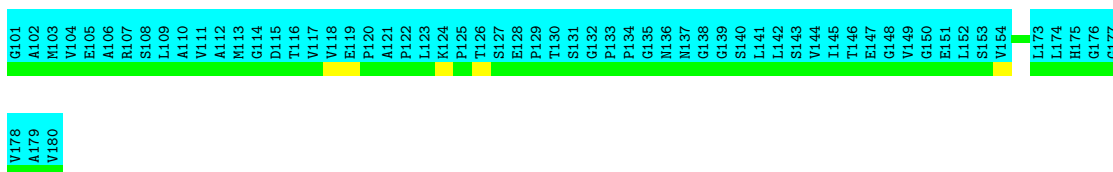
4.2.41   Score per residue for model 41

• Molecule 1: Golgi resident protein GCP60

Chain A: 71%   ••   26%

M1 Q2 Q3 Q14 R39 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69
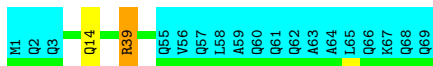
• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B: 20%   •   78%
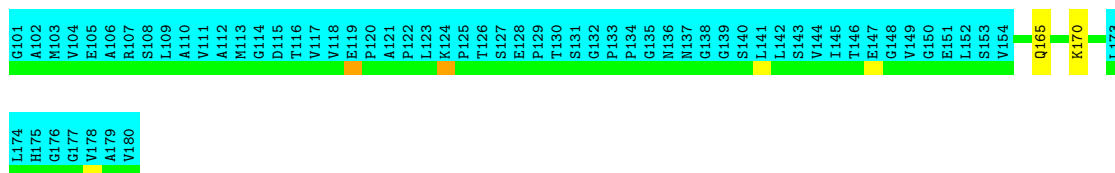
4.2.42   Score per residue for model 42

• Molecule 1: Golgi resident protein GCP60

Chain A:

• Molecule 2: Phosphatidylinositol 4-kinase beta
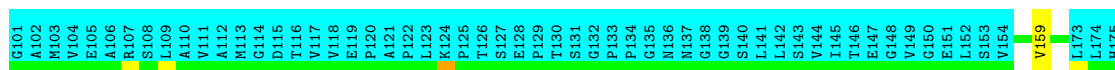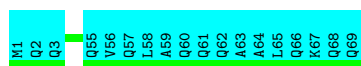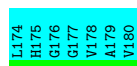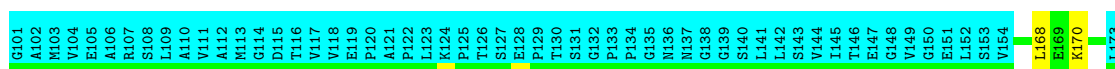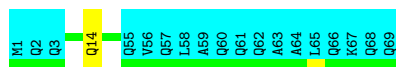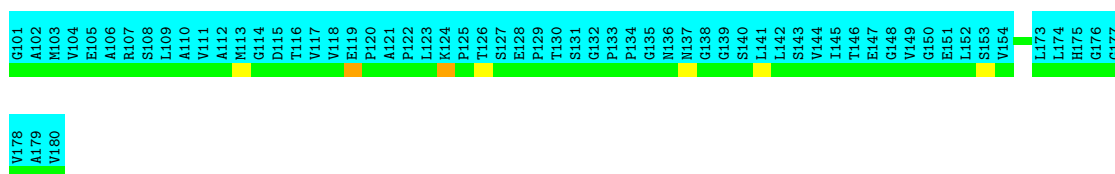
Chain B:

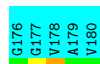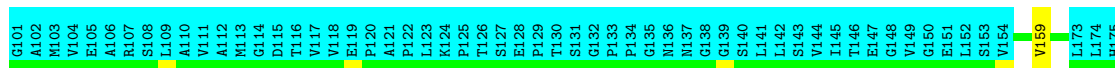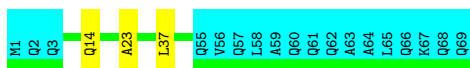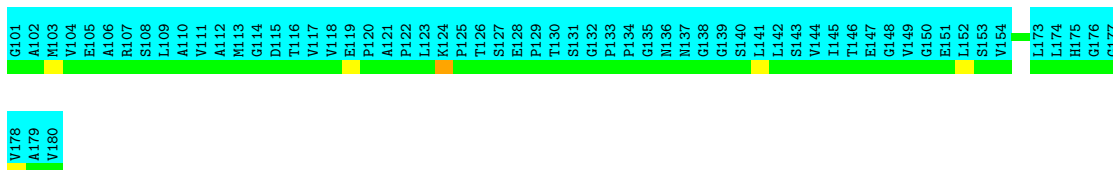### 4.2.43   Score per residue for model 43

• Molecule 1: Golgi resident protein GCP60
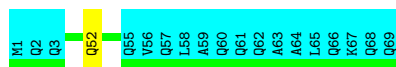
Chain A:

• Molecule 2: Phosphatidylinositol 4-kinase beta

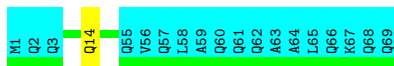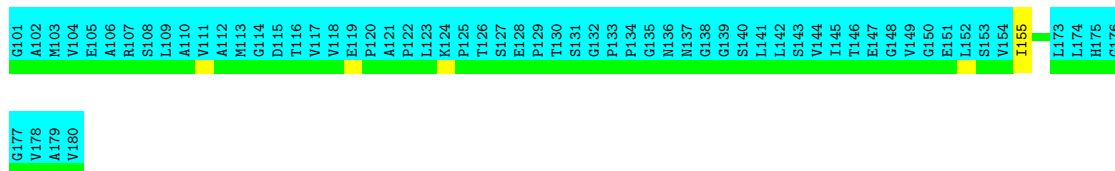Chain B:

4.2.44   Score per residue for model 44

• Molecule 1: Golgi resident protein GCP60

Chain A:

68%   6%   26%

M1 Q2 Q3 Q14 Y22 R39 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

19%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 V159 L168 E169 K170

L173 L174 H175 G176 G177 V178 A179 V180
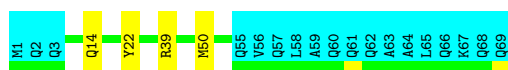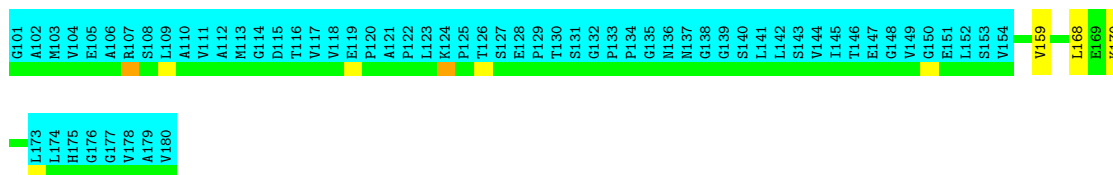
4.2.45   Score per residue for model 45

• Molecule 1: Golgi resident protein GCP60

Chain A:

67%   7%   26%

M1 Q2 Q3 Q14 A23 L37 I38 R39 M50 Q55 V56 Q57 L58 A59 Q60 Q61 Q62 A63 A64 L65 Q66 K67 Q68 Q69

• Molecule 2: Phosphatidylinositol 4-kinase beta

Chain B:

21%   •   78%

G101 A102 M103 V104 E105 A106 R107 S108 L109 A110 V111 A112 M113 G114 D115 T116 V117 V118 E119 P120 A121 P122 L123 K124 P125 T126 S127 E128 P129 T130 S131 G132 P133 P134 G135 N136 N137 G138 G139 S140 L141 L142 S143 V144 I145 T146 E147 G148 V149 G150 E151 L152 S153 V154 L168 L173 L174 H175

G176 G177 V178 A179 V180
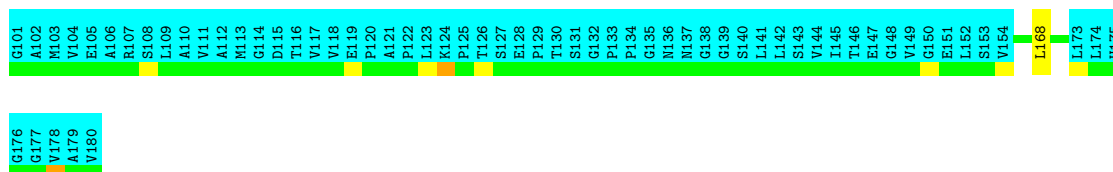
5 Refinement protocol and experimental data overview (i)

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

Of the 100 calculated structures, 45 were deposited, based on the following criterion: *structures with the lowest energy*.

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

Software name	Classification	Version
CYANA	structure solution	
CYANA	refinement	

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

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1807
Number of shifts mapped to atoms	1807
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	91%

6 Model quality ⓘ

6.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.74±0.07	0±0/446 (0.0± 0.0%)	0.54±0.06	0±0/603 (0.0± 0.1%)
2	B	0.51±0.09	0±0/141 (0.0± 0.0%)	0.58±0.06	0±0/190 (0.0± 0.0%)
All	All	0.69	1/26415 (0.0%)	0.55	6/35685 (0.0%)

All unique bond outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	22	TYR	CD2-CE2	5.12	1.47	1.39	44	1

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})	Models	
								Worst	Total
1	A	39	ARG	NE-CZ-NH1	6.57	123.59	120.30	45	6

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	437	415	415	0±1
All	All	25965	25335	25335	11

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 0.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:TYR:CE2	1:A:37:LEU:HD12	0.56	2.36	12	1
1:A:23:ALA:HA	1:A:37:LEU:HD23	0.55	1.76	45	8
1:A:23:ALA:HA	1:A:37:LEU:HD13	0.46	1.87	12	1
1:A:27:TYR:HE2	1:A:37:LEU:HD12	0.41	1.72	12	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	51/69 (74%)	51±0 (99±1%)	0±0 (1±1%)	0±0 (0±0%)	100	100
2	B	18/80 (22%)	18±0 (99±2%)	0±0 (1±2%)	0±0 (0±0%)	100	100
All	All	3105/6705 (46%)	3079 (99%)	26 (1%)	0 (0%)	100	100

There are no Ramachandran outliers.

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	45/60 (75%)	43±1 (96±2%)	2±1 (4±2%)	36	84
2	B	16/62 (26%)	15±1 (94±6%)	1±1 (6±6%)	25	74
All	All	2745/5490 (50%)	2629 (96%)	116 (4%)	33	82

All 19 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	14	GLN	35
1	A	50	MET	23
2	B	168	LEU	12
2	B	170	LYS	7
2	B	159	VAL	7
2	B	155	ILE	5
1	A	33	GLN	3
1	A	12	ASN	3
1	A	30	ASN	3
1	A	41	LEU	3
1	A	52	GLN	3
2	B	156	ASP	2
2	B	166	GLU	2
1	A	51	GLN	2
2	B	165	GLN	2
2	B	161	GLN	1
2	B	164	CYS	1
2	B	158	GLU	1
1	A	39	ARG	1

6.3.3　RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5　Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.6　Ligand geometry ⓘ

There are no ligands in this entry.

6.7　Other polymers ⓘ

There are no such molecules in this entry.

6.8 Polymer linkage issues (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 91% for the well-defined parts and 91% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping ⓘ

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

Total number of shifts	1807
Number of shifts mapped to atoms	1807
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

7.1.2 Chemical shift referencing ⓘ

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_\alpha$	147	-0.32 ± 0.07	None needed ($<$ 0.5 ppm)
$^{13}C_\beta$	137	0.29 ± 0.05	None needed ($<$ 0.5 ppm)
$^{13}C'$	145	-0.43 ± 0.05	None needed ($<$ 0.5 ppm)
^{15}N	137	-0.24 ± 0.15	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 91%, i.e. 908 atoms were assigned a chemical shift out of a possible 995. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	341/342 (100%)	137/137 (100%)	137/138 (99%)	67/67 (100%)
Sidechain	519/582 (89%)	354/373 (95%)	150/180 (83%)	15/29 (52%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	48/71 (68%)	31/33 (94%)	17/37 (46%)	0/1 (0%)
Overall	908/995 (91%)	522/543 (96%)	304/355 (86%)	82/97 (85%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 91%, i.e. 1806 atoms were assigned a chemical shift out of a possible 1992. 0 out of 28 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	723/740 (98%)	294/301 (98%)	292/298 (98%)	137/141 (97%)
Sidechain	1031/1174 (88%)	713/764 (93%)	300/364 (82%)	18/46 (39%)
Aromatic	52/78 (67%)	33/37 (89%)	19/39 (49%)	0/2 (0%)
Overall	1806/1992 (91%)	1040/1102 (94%)	611/701 (87%)	155/189 (82%)

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	15	THR	HG1	5.70	0.08 − 2.19	21.6
1	A	15	THR	HB	2.50	2.57 − 5.77	-5.2

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:
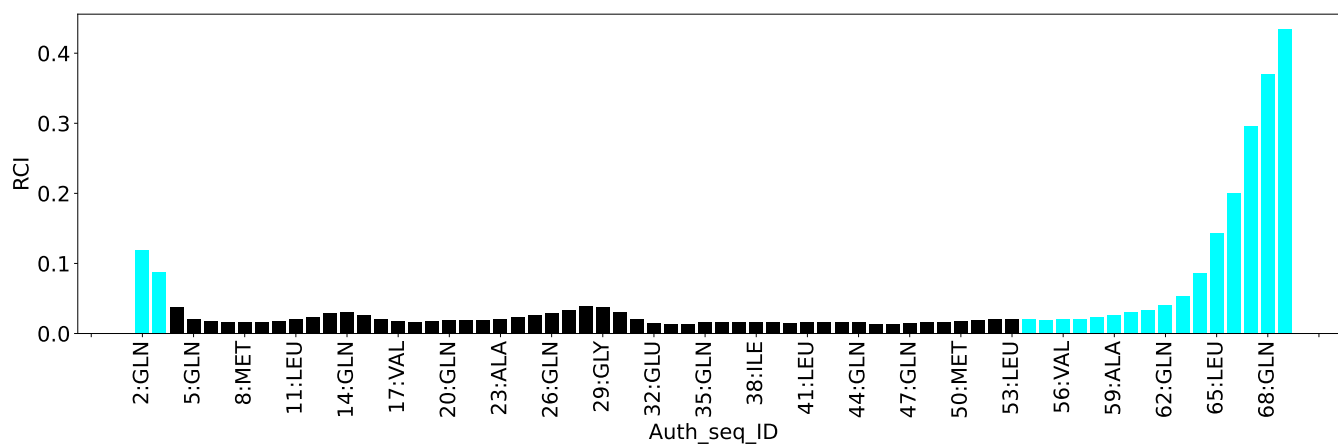
Random coil index (RCI) for chain B:
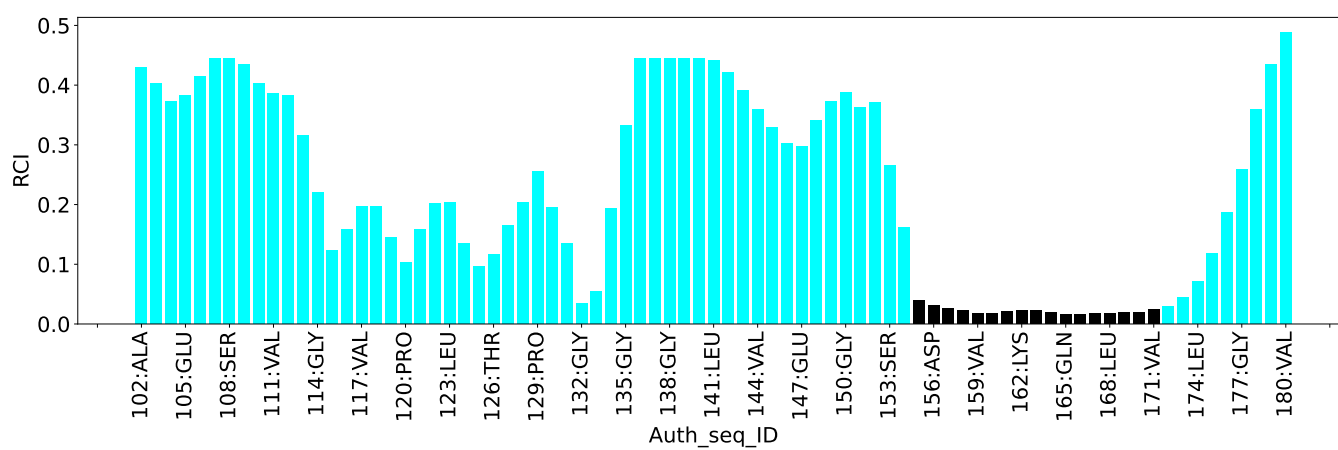
8 NMR restraints analysis (i)

8.1 Conformationally restricting restraints (i)

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	2404
Intra-residue ($|i-j|$=0)	613
Sequential ($|i-j|$=1)	694
Medium range ($|i-j|$>1 and $|i-j|$<5)	656
Long range ($|i-j|$≥5)	213
Inter-chain	228
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	158
Number of unmapped restraints	0
Number of restraints per residue	17.2
Number of long range restraints per residue[1]	1.4

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

8.2 Residual restraint violations (i)

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 (i)

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)	13.6	0.2
0.2-0.5 (Medium)	7.1	0.5
>0.5 (Large)	None	None

8.2.2 Average number of dihedral-angle violations per model ⓘ

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	2.0	4.9
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis (i)

9.1 Summary of distance violations (i)

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

Restraints type	Count	$\%^1$	Violated[3]			Consistently Violated[4]		
			Count	$\%^2$	$\%^1$	Count	$\%^2$	$\%^1$
Intra-residue (|i-j|=0)	613	25.5	16	2.6	0.7	0	0.0	0.0
Backbone-Backbone	2	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	519	21.6	15	2.9	0.6	0	0.0	0.0
Sidechain-Sidechain	92	3.8	1	1.1	0.0	0	0.0	0.0
Sequential (|i-j|=1)	694	28.9	58	8.4	2.4	0	0.0	0.0
Backbone-Backbone	161	6.7	12	7.5	0.5	0	0.0	0.0
Backbone-Sidechain	444	18.5	35	7.9	1.5	0	0.0	0.0
Sidechain-Sidechain	89	3.7	11	12.4	0.5	0	0.0	0.0
Medium range (|i-j|>1 & |i-j|<5)	656	27.3	82	12.5	3.4	0	0.0	0.0
Backbone-Backbone	159	6.6	5	3.1	0.2	0	0.0	0.0
Backbone-Sidechain	305	12.7	34	11.1	1.4	0	0.0	0.0
Sidechain-Sidechain	192	8.0	43	22.4	1.8	0	0.0	0.0
Long range (|i-j|≥5)	213	8.9	21	9.9	0.9	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	72	3.0	8	11.1	0.3	0	0.0	0.0
Sidechain-Sidechain	141	5.9	13	9.2	0.5	0	0.0	0.0
Inter-chain	228	9.5	19	8.3	0.8	0	0.0	0.0
Backbone-Backbone	1	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	81	3.4	6	7.4	0.2	0	0.0	0.0
Sidechain-Sidechain	146	6.1	13	8.9	0.5	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	2404	100.0	196	8.2	8.2	0	0.0	0.0
Backbone-Backbone	323	13.4	17	5.3	0.7	0	0.0	0.0
Backbone-Sidechain	1421	59.1	98	6.9	4.1	0	0.0	0.0
Sidechain-Sidechain	660	27.5	81	12.3	3.4	0	0.0	0.0

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

9.1.1   Bar chart : Distribution of distance restraints and violations ⓘ
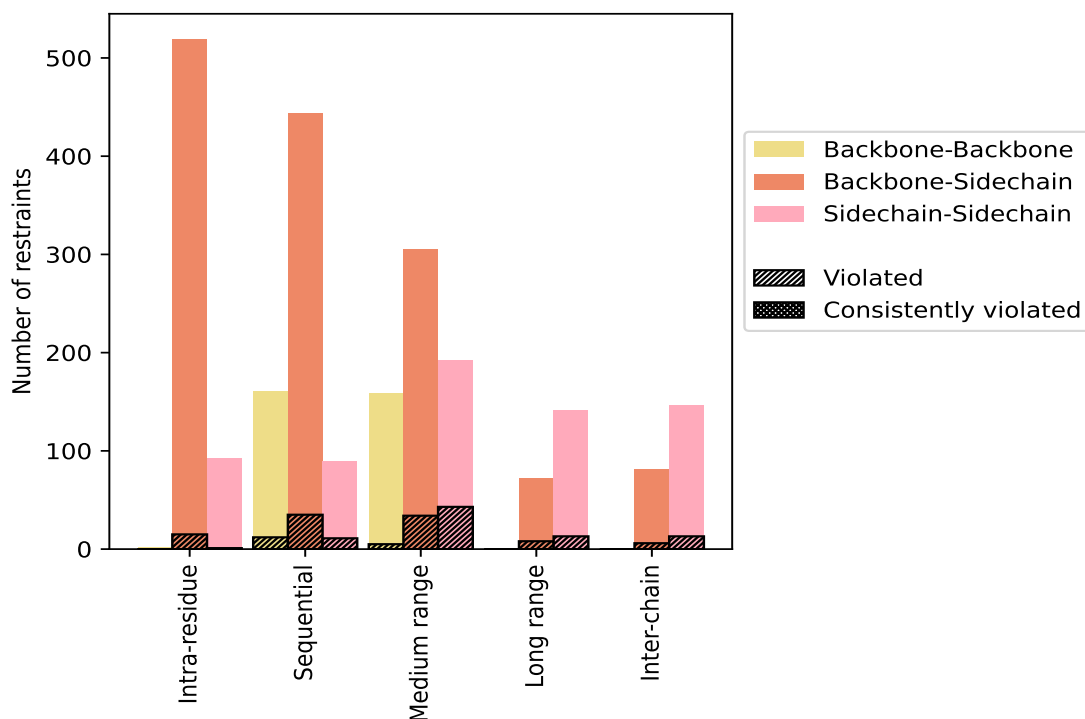
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

9.2   Distance violation statistics for each model ⓘ

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	0	2	2	0	1	5	0.13	0.18	0.02	0.12
2	0	0	3	0	1	4	0.16	0.19	0.03	0.16
3	0	3	7	1	1	12	0.2	0.46	0.12	0.14
4	1	4	6	0	2	13	0.2	0.5	0.11	0.16
5	1	3	1	0	2	7	0.19	0.27	0.05	0.21
6	0	1	2	0	2	5	0.22	0.31	0.07	0.24
7	0	1	3	0	0	4	0.14	0.17	0.02	0.13
8	0	1	4	0	1	6	0.17	0.28	0.06	0.15
9	0	1	7	0	3	11	0.16	0.28	0.05	0.15
10	0	0	4	1	3	8	0.2	0.48	0.11	0.16
11	0	1	9	0	2	12	0.2	0.47	0.1	0.17

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Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
12	0	1	4	1	1	7	0.13	0.17	0.02	0.13
13	0	1	6	1	2	10	0.15	0.23	0.04	0.15
14	0	7	11	1	5	24	0.18	0.39	0.07	0.16
15	0	1	4	0	2	7	0.15	0.23	0.04	0.13
16	0	3	5	0	2	10	0.19	0.37	0.07	0.16
17	0	2	5	0	1	8	0.14	0.21	0.04	0.13
18	0	3	6	0	2	11	0.21	0.33	0.06	0.21
19	2	5	11	1	2	21	0.17	0.31	0.06	0.16
20	0	4	8	1	3	16	0.2	0.46	0.1	0.16
21	0	6	8	0	4	18	0.2	0.47	0.09	0.16
22	1	7	17	2	3	30	0.2	0.46	0.09	0.16
23	1	2	11	0	4	18	0.19	0.48	0.11	0.14
24	0	6	9	0	2	17	0.2	0.49	0.09	0.19
25	3	4	11	3	3	24	0.2	0.46	0.09	0.17
26	2	5	12	2	2	23	0.22	0.44	0.11	0.19
27	0	4	10	1	3	18	0.2	0.47	0.11	0.16
28	2	7	12	1	3	25	0.2	0.49	0.11	0.15
29	2	2	8	1	3	16	0.18	0.45	0.1	0.14
30	3	7	11	1	2	24	0.19	0.47	0.1	0.14
31	1	5	14	2	4	26	0.22	0.48	0.12	0.15
32	1	6	12	2	3	24	0.19	0.36	0.08	0.16
33	2	7	10	1	3	23	0.23	0.47	0.11	0.18
34	3	6	10	1	2	22	0.22	0.35	0.08	0.22
35	2	6	15	2	3	28	0.19	0.45	0.09	0.14
36	0	8	12	1	5	26	0.24	0.49	0.1	0.21
37	4	9	17	3	3	36	0.2	0.5	0.1	0.16
38	1	8	18	4	5	36	0.2	0.48	0.1	0.16
39	3	8	16	3	4	34	0.23	0.48	0.1	0.2
40	4	8	16	6	3	37	0.19	0.47	0.1	0.15
41	3	11	16	5	3	38	0.18	0.39	0.07	0.16
42	1	12	19	3	1	36	0.19	0.45	0.09	0.14
43	6	10	17	8	6	47	0.22	0.49	0.1	0.18
44	1	10	27	7	5	50	0.2	0.44	0.09	0.17
45	5	12	28	5	4	54	0.2	0.49	0.1	0.17

[1]Intra-residue restraints, [2]Sequential restraints, [3]Medium range restraints, [4]Long range restraints, [5]Inter-chain restraints, [6]Standard deviation

9.2.1　Bar graph : Distance Violation statistics for each model　ⓘ
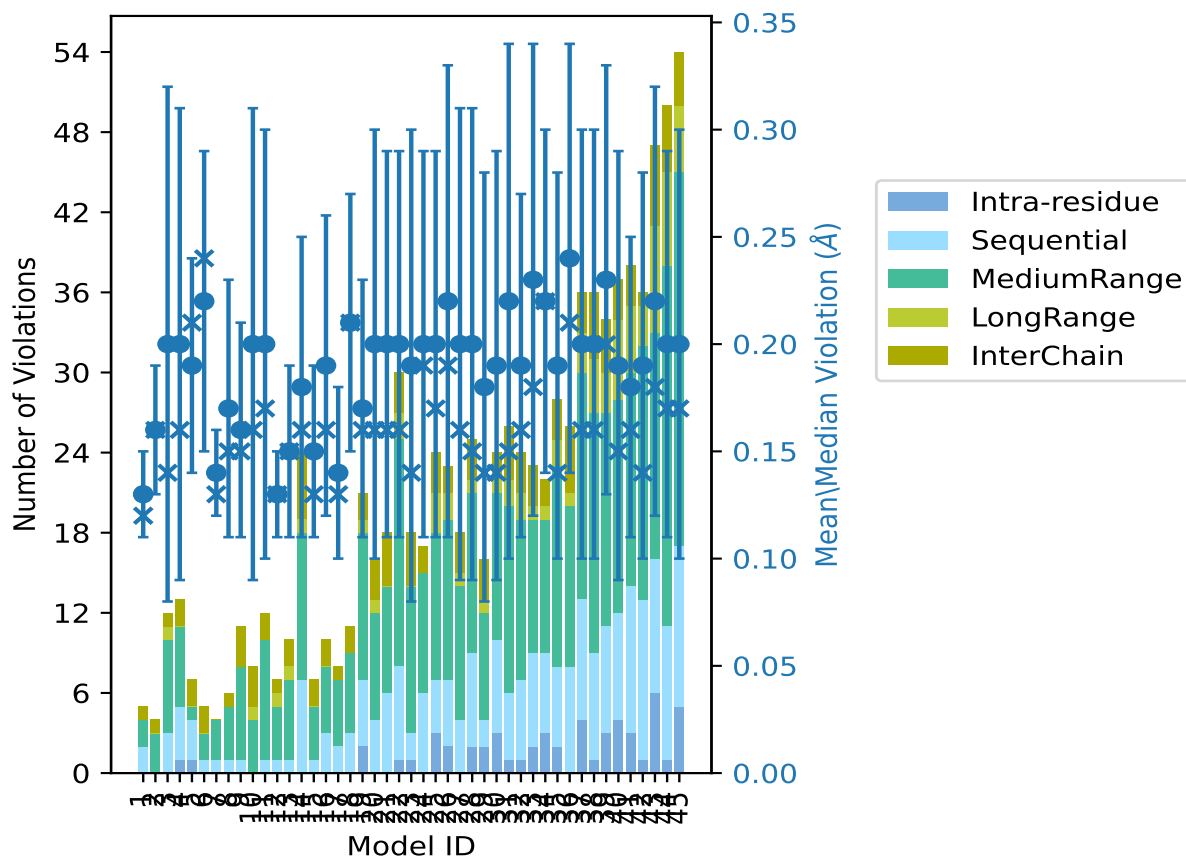
The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

9.3　Distance violation statistics for the ensemble　ⓘ

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, 2208(IR:597, SQ:636, MR:574, LR:192, IC:209) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
8	28	25	10	7	78	1	2.2
3	9	23	4	2	41	2	4.4
0	7	5	2	4	18	3	6.7
3	3	2	2	0	10	4	8.9
0	1	5	0	0	6	5	11.1
0	3	5	0	0	8	6	13.3

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Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
0	0	0	1	2	3	7	15.6
0	0	1	0	0	1	8	17.8
0	0	3	0	1	4	9	20.0
0	0	0	0	0	0	10	22.2
1	1	0	1	1	4	11	24.4
0	0	2	0	0	2	12	26.7
0	3	1	0	0	4	13	28.9
0	1	2	0	0	3	14	31.1
0	0	2	0	0	2	15	33.3
0	0	0	0	0	0	16	35.6
0	0	0	0	0	0	17	37.8
1	0	1	0	0	2	18	40.0
0	0	0	0	0	0	19	42.2
0	0	0	0	0	0	20	44.4
0	0	0	1	0	1	21	46.7
0	0	0	0	0	0	22	48.9
0	0	0	0	0	0	23	51.1
0	0	0	0	0	0	24	53.3
0	1	1	0	0	2	25	55.6
0	0	0	0	0	0	26	57.8
0	0	0	0	0	0	27	60.0
0	0	0	0	1	1	28	62.2
0	1	1	0	0	2	29	64.4
0	0	1	0	0	1	30	66.7
0	0	0	0	0	0	31	68.9
0	0	0	0	0	0	32	71.1
0	0	0	0	0	0	33	73.3
0	0	0	0	0	0	34	75.6
0	0	0	0	0	0	35	77.8
0	0	0	0	1	1	36	80.0
0	0	0	0	0	0	37	82.2
0	0	0	0	0	0	38	84.4
0	0	1	0	0	1	39	86.7
0	0	0	0	0	0	40	88.9
0	0	0	0	0	0	41	91.1
0	0	0	0	0	0	42	93.3
0	0	0	0	0	0	43	95.6
0	0	1	0	0	1	44	97.8
0	0	0	0	0	0	45	100.0

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

9.3.1 Bar graph : Distance violation statistics for the ensemble ⓘ
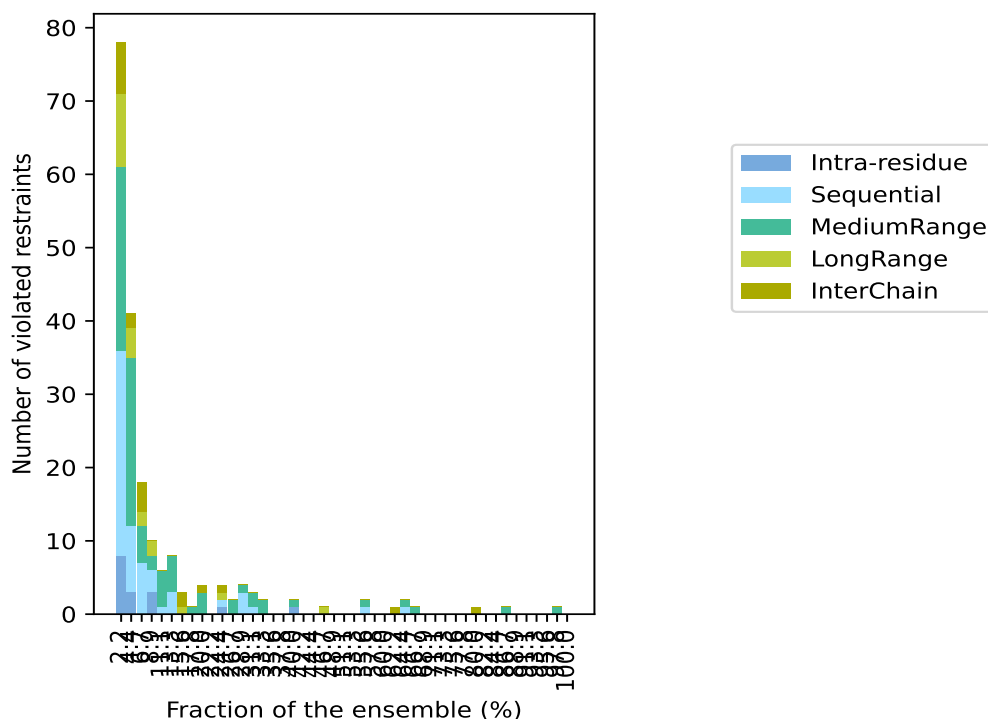
9.4 Most violated distance restraints in the ensemble ⓘ

9.4.1 Histogram : Distribution of mean distance violations ⓘ

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble
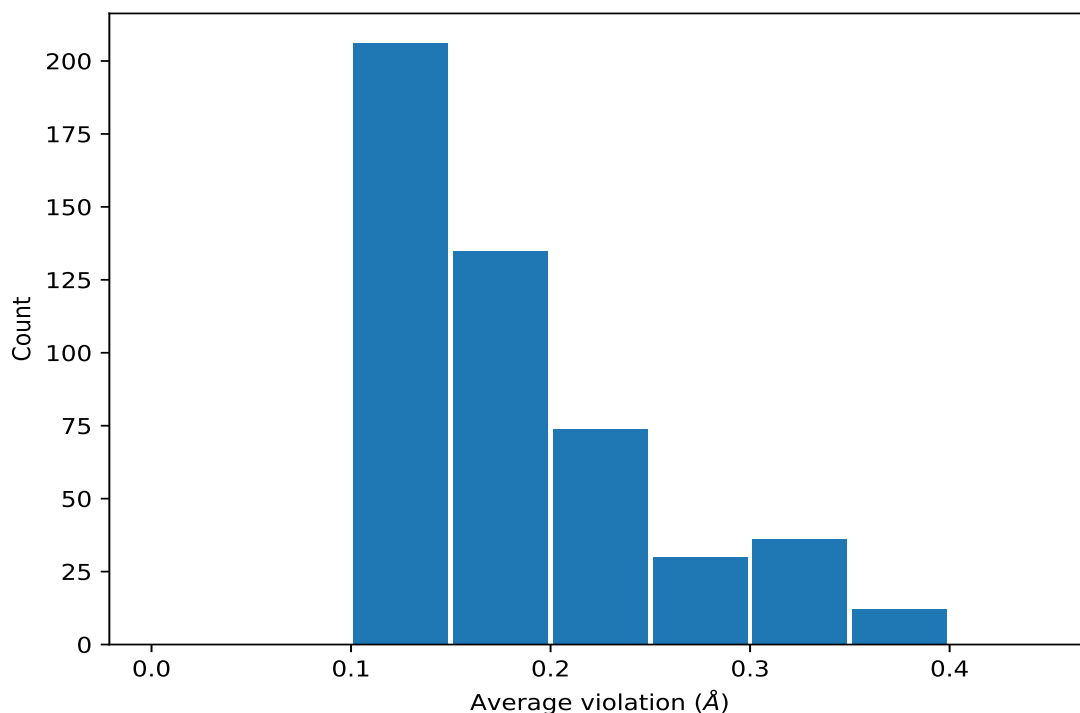
9.4.2   Table: Most violated distance restraints ⓘ

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

Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	44	0.23	0.08	0.22
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	44	0.23	0.08	0.22
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	44	0.23	0.08	0.22
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	44	0.23	0.08	0.22
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	44	0.23	0.08	0.22
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	44	0.23	0.08	0.22
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	39	0.25	0.12	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	39	0.25	0.12	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	39	0.25	0.12	0.2
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	36	0.34	0.11	0.36

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	36	0.34	0.11	0.36
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	36	0.34	0.11	0.36
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	30	0.31	0.09	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	30	0.31	0.09	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	30	0.31	0.09	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	30	0.31	0.09	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	30	0.31	0.09	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	30	0.31	0.09	0.32
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	29	0.25	0.1	0.26
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	29	0.25	0.1	0.26
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	29	0.25	0.1	0.26
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	29	0.25	0.1	0.26
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	29	0.25	0.1	0.26
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	29	0.25	0.1	0.26
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	29	0.18	0.08	0.16
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	29	0.18	0.08	0.16
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	29	0.18	0.08	0.16
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	28	0.31	0.09	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	28	0.31	0.09	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	28	0.31	0.09	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	28	0.31	0.09	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	28	0.31	0.09	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	28	0.31	0.09	0.31
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	25	0.31	0.1	0.33
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	25	0.31	0.1	0.33
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	25	0.31	0.1	0.33
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	25	0.31	0.1	0.33
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	25	0.31	0.1	0.33
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	25	0.31	0.1	0.33
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	25	0.16	0.06	0.15
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	25	0.16	0.06	0.15
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	25	0.16	0.06	0.15
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	25	0.16	0.06	0.15
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	25	0.16	0.06	0.15
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	25	0.16	0.06	0.15
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	21	0.18	0.05	0.17
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	21	0.18	0.05	0.17
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	21	0.18	0.05	0.17
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	21	0.18	0.05	0.17

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	21	0.18	0.05	0.17
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	21	0.18	0.05	0.17
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	18	0.16	0.04	0.15
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	18	0.16	0.04	0.15
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	18	0.16	0.04	0.15
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	18	0.14	0.03	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	18	0.14	0.03	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	18	0.14	0.03	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	15	0.16	0.04	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	15	0.16	0.04	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	15	0.16	0.04	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	15	0.16	0.04	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	15	0.16	0.04	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	15	0.16	0.04	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	15	0.16	0.04	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	15	0.16	0.04	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	15	0.16	0.04	0.15
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	15	0.15	0.04	0.14
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	15	0.15	0.04	0.14
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	14	0.36	0.1	0.38
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	14	0.36	0.1	0.38
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	14	0.14	0.03	0.13
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	14	0.13	0.02	0.13
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	14	0.13	0.02	0.13
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	14	0.13	0.02	0.13
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	14	0.13	0.02	0.13
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	14	0.13	0.02	0.13
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	14	0.13	0.02	0.13
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	13	0.29	0.11	0.32
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	13	0.29	0.11	0.32
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	13	0.29	0.11	0.32
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	13	0.24	0.07	0.24

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	13	0.24	0.07	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	13	0.24	0.07	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	13	0.24	0.07	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	13	0.24	0.07	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	13	0.24	0.07	0.24
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	13	0.21	0.08	0.18
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	13	0.21	0.08	0.18
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	13	0.21	0.08	0.18
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	13	0.21	0.08	0.18
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	13	0.21	0.08	0.18
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	13	0.21	0.08	0.18
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	13	0.19	0.05	0.19
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	13	0.19	0.05	0.19
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	12	0.18	0.07	0.16
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	12	0.18	0.07	0.16
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	12	0.18	0.07	0.16
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	12	0.18	0.07	0.16
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	12	0.14	0.02	0.14
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	12	0.14	0.02	0.14
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	11	0.22	0.09	0.2
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	11	0.22	0.09	0.2
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	11	0.22	0.09	0.2
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	11	0.22	0.09	0.2
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	11	0.22	0.09	0.2
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	11	0.22	0.09	0.2
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	11	0.22	0.09	0.2
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	11	0.22	0.09	0.2
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	11	0.22	0.09	0.2
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	11	0.17	0.05	0.14
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	11	0.17	0.05	0.14
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	11	0.17	0.05	0.14
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	11	0.17	0.05	0.14
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	11	0.17	0.05	0.14
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	11	0.17	0.05	0.14
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	11	0.15	0.05	0.13
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	11	0.15	0.05	0.13
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	11	0.15	0.05	0.13
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	11	0.15	0.05	0.13
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	11	0.15	0.05	0.13
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	11	0.15	0.05	0.13
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	11	0.12	0.01	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	11	0.12	0.01	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	11	0.12	0.01	0.11
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	9	0.27	0.09	0.25
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	9	0.27	0.09	0.25
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	9	0.16	0.04	0.16
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	9	0.16	0.04	0.16
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	9	0.16	0.04	0.16
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	9	0.15	0.04	0.14
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	9	0.15	0.04	0.14
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	9	0.15	0.04	0.14
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	9	0.15	0.04	0.14
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	9	0.15	0.04	0.14
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	9	0.15	0.04	0.14
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	9	0.13	0.02	0.12
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	9	0.13	0.02	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	8	0.18	0.07	0.18
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	8	0.18	0.07	0.18
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	8	0.18	0.07	0.18
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	8	0.18	0.07	0.18
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	8	0.18	0.07	0.18
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	8	0.18	0.07	0.18
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD11	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD12	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD13	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD21	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD22	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD23	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD11	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD12	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD13	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD21	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD22	7	0.23	0.08	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD23	7	0.23	0.08	0.22
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG21	7	0.15	0.03	0.15
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG22	7	0.15	0.03	0.15
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG23	7	0.15	0.03	0.15
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG21	7	0.15	0.03	0.15
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG22	7	0.15	0.03	0.15
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG23	7	0.15	0.03	0.15
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD1	7	0.15	0.05	0.13
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD2	7	0.15	0.05	0.13
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD1	7	0.15	0.05	0.13
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD2	7	0.15	0.05	0.13

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD1	7	0.15	0.05	0.13
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD2	7	0.15	0.05	0.13
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG2	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG3	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG2	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG3	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG2	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG3	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG2	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG3	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG2	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG3	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG2	6	0.23	0.08	0.28
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG3	6	0.23	0.08	0.28
(1,1755)	2:B:152:LEU:HD21	2:B:153:SER:H	6	0.16	0.06	0.14
(1,1755)	2:B:152:LEU:HD22	2:B:153:SER:H	6	0.16	0.06	0.14
(1,1755)	2:B:152:LEU:HD23	2:B:153:SER:H	6	0.16	0.06	0.14
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG21	6	0.15	0.04	0.13
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG22	6	0.15	0.04	0.13
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG23	6	0.15	0.04	0.13
(1,788)	1:A:49:TYR:HE1	1:A:53:LEU:HB3	6	0.13	0.02	0.13
(1,788)	1:A:49:TYR:HE2	1:A:53:LEU:HB3	6	0.13	0.02	0.13
(1,2393)	2:B:173:LEU:HD11	2:B:175:HIS:HB2	6	0.13	0.03	0.12
(1,2393)	2:B:173:LEU:HD12	2:B:175:HIS:HB2	6	0.13	0.03	0.12
(1,2393)	2:B:173:LEU:HD13	2:B:175:HIS:HB2	6	0.13	0.03	0.12
(1,2393)	2:B:173:LEU:HD21	2:B:175:HIS:HB2	6	0.13	0.03	0.12
(1,2393)	2:B:173:LEU:HD22	2:B:175:HIS:HB2	6	0.13	0.03	0.12
(1,2393)	2:B:173:LEU:HD23	2:B:175:HIS:HB2	6	0.13	0.03	0.12
(1,422)	1:A:39:ARG:HB2	1:A:40:GLN:H	6	0.13	0.01	0.13
(1,422)	1:A:39:ARG:HB3	1:A:40:GLN:H	6	0.13	0.01	0.13
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB1	6	0.12	0.01	0.12
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB2	6	0.12	0.01	0.12
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB3	6	0.12	0.01	0.12
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB1	6	0.12	0.01	0.12
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB2	6	0.12	0.01	0.12
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB3	6	0.12	0.01	0.12
(1,2329)	2:B:158:GLU:HG2	2:B:160:ALA:H	6	0.12	0.02	0.11
(1,2329)	2:B:158:GLU:HG3	2:B:160:ALA:H	6	0.12	0.02	0.11
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG2	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG3	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG2	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG3	5	0.19	0.06	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG2	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG3	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG2	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG3	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG2	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG3	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG2	5	0.19	0.06	0.18
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG3	5	0.19	0.06	0.18
(1,1733)	2:B:146:THR:HA	2:B:147:GLU:H	5	0.19	0.06	0.18
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB2	5	0.19	0.06	0.17
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB3	5	0.19	0.06	0.17
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB2	5	0.19	0.06	0.17
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB3	5	0.19	0.06	0.17
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB2	5	0.16	0.03	0.16
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB3	5	0.16	0.03	0.16
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD2	5	0.15	0.01	0.15
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD3	5	0.15	0.01	0.15
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD2	5	0.15	0.01	0.15
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD3	5	0.15	0.01	0.15
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD2	5	0.15	0.01	0.15
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD3	5	0.15	0.01	0.15
(1,227)	1:A:17:VAL:HG11	1:A:20:GLN:HE21	5	0.13	0.02	0.13
(1,227)	1:A:17:VAL:HG12	1:A:20:GLN:HE21	5	0.13	0.02	0.13
(1,227)	1:A:17:VAL:HG13	1:A:20:GLN:HE21	5	0.13	0.02	0.13
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG11	4	0.26	0.1	0.29
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG12	4	0.26	0.1	0.29
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG13	4	0.26	0.1	0.29
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG21	4	0.23	0.01	0.23
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG22	4	0.23	0.01	0.23
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG23	4	0.23	0.01	0.23
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD11	4	0.17	0.06	0.17
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD12	4	0.17	0.06	0.17
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD13	4	0.17	0.06	0.17
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG11	4	0.17	0.07	0.14
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG12	4	0.17	0.07	0.14
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG13	4	0.17	0.07	0.14
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG21	4	0.17	0.07	0.14
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG22	4	0.17	0.07	0.14
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG23	4	0.17	0.07	0.14
(1,1520)	1:A:19:PHE:HZ	1:A:46:TYR:H	4	0.15	0.02	0.15
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD11	4	0.15	0.04	0.15
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD12	4	0.15	0.04	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD13	4	0.15	0.04	0.15
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD11	4	0.15	0.04	0.15
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD12	4	0.15	0.04	0.15
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD13	4	0.15	0.04	0.15
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB2	4	0.15	0.04	0.14
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB3	4	0.15	0.04	0.14
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG21	4	0.14	0.03	0.13
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG22	4	0.14	0.03	0.13
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG23	4	0.14	0.03	0.13
(1,2401)	2:B:174:LEU:HD11	2:B:175:HIS:HD2	4	0.12	0.02	0.12
(1,2401)	2:B:174:LEU:HD12	2:B:175:HIS:HD2	4	0.12	0.02	0.12
(1,2401)	2:B:174:LEU:HD13	2:B:175:HIS:HD2	4	0.12	0.02	0.12
(1,2401)	2:B:174:LEU:HD21	2:B:175:HIS:HD2	4	0.12	0.02	0.12
(1,2401)	2:B:174:LEU:HD22	2:B:175:HIS:HD2	4	0.12	0.02	0.12
(1,2401)	2:B:174:LEU:HD23	2:B:175:HIS:HD2	4	0.12	0.02	0.12
(1,654)	2:B:154:VAL:H	2:B:154:VAL:HB	4	0.12	0.01	0.12
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG21	3	0.35	0.08	0.33
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG22	3	0.35	0.08	0.33
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG23	3	0.35	0.08	0.33
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG21	3	0.35	0.08	0.33
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG22	3	0.35	0.08	0.33
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG23	3	0.35	0.08	0.33
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD11	3	0.26	0.05	0.27
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD12	3	0.26	0.05	0.27
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD13	3	0.26	0.05	0.27
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD11	3	0.18	0.05	0.19
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD12	3	0.18	0.05	0.19
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD13	3	0.18	0.05	0.19
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD11	3	0.18	0.05	0.19
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD12	3	0.18	0.05	0.19
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD13	3	0.18	0.05	0.19
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD11	3	0.18	0.05	0.19
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD12	3	0.18	0.05	0.19
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD13	3	0.18	0.05	0.19
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG21	3	0.18	0.08	0.13
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG22	3	0.18	0.08	0.13
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG23	3	0.18	0.08	0.13
(1,1904)	1:A:10:ALA:HB1	2:B:155:ILE:HG12	3	0.17	0.03	0.15
(1,1904)	1:A:10:ALA:HB1	2:B:155:ILE:HG13	3	0.17	0.03	0.15
(1,1904)	1:A:10:ALA:HB2	2:B:155:ILE:HG12	3	0.17	0.03	0.15
(1,1904)	1:A:10:ALA:HB2	2:B:155:ILE:HG13	3	0.17	0.03	0.15
(1,1904)	1:A:10:ALA:HB3	2:B:155:ILE:HG12	3	0.17	0.03	0.15

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,1904)	1:A:10:ALA:HB3	2:B:155:ILE:HG13	3	0.17	0.03	0.15
(1,1627)	1:A:68:GLN:H	1:A:69:GLN:H	3	0.15	0.02	0.13
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD11	3	0.14	0.02	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD12	3	0.14	0.02	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD13	3	0.14	0.02	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD21	3	0.14	0.02	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD22	3	0.14	0.02	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD23	3	0.14	0.02	0.14
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD11	3	0.14	0.02	0.14
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD12	3	0.14	0.02	0.14
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD13	3	0.14	0.02	0.14
(1,2027)	1:A:31:TYR:HB2	1:A:32:GLU:HB2	3	0.14	0.03	0.13
(1,2027)	1:A:31:TYR:HB2	1:A:32:GLU:HB3	3	0.14	0.03	0.13
(1,2027)	1:A:31:TYR:HB3	1:A:32:GLU:HB2	3	0.14	0.03	0.13
(1,2027)	1:A:31:TYR:HB3	1:A:32:GLU:HB3	3	0.14	0.03	0.13
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB1	3	0.13	0.03	0.12
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB2	3	0.13	0.03	0.12
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB3	3	0.13	0.03	0.12
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB1	3	0.13	0.03	0.12
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB2	3	0.13	0.03	0.12
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB3	3	0.13	0.03	0.12
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB1	3	0.13	0.03	0.12
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB2	3	0.13	0.03	0.12
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB3	3	0.13	0.03	0.12
(1,1323)	1:A:11:LEU:HD11	1:A:12:ASN:H	3	0.13	0.02	0.14
(1,1323)	1:A:11:LEU:HD12	1:A:12:ASN:H	3	0.13	0.02	0.14
(1,1323)	1:A:11:LEU:HD13	1:A:12:ASN:H	3	0.13	0.02	0.14
(1,2318)	2:B:156:ASP:HB2	2:B:159:VAL:HB	3	0.13	0.02	0.14
(1,2318)	2:B:156:ASP:HB3	2:B:159:VAL:HB	3	0.13	0.02	0.14
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB1	3	0.13	0.01	0.13
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB2	3	0.13	0.01	0.13
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB3	3	0.13	0.01	0.13
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG21	3	0.13	0.02	0.12
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG22	3	0.13	0.02	0.12
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG23	3	0.13	0.02	0.12
(1,92)	1:A:7:ILE:HD11	1:A:46:TYR:HE1	3	0.12	0.01	0.12
(1,92)	1:A:7:ILE:HD11	1:A:46:TYR:HE2	3	0.12	0.01	0.12
(1,92)	1:A:7:ILE:HD12	1:A:46:TYR:HE1	3	0.12	0.01	0.12
(1,92)	1:A:7:ILE:HD12	1:A:46:TYR:HE2	3	0.12	0.01	0.12
(1,92)	1:A:7:ILE:HD13	1:A:46:TYR:HE1	3	0.12	0.01	0.12
(1,92)	1:A:7:ILE:HD13	1:A:46:TYR:HE2	3	0.12	0.01	0.12
(1,751)	1:A:19:PHE:HE1	2:B:168:LEU:HG	3	0.12	0.02	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,751)	1:A:19:PHE:HE2	2:B:168:LEU:HG	3	0.12	0.02	0.11
(1,1324)	1:A:11:LEU:HD21	1:A:12:ASN:H	3	0.12	0.0	0.12
(1,1324)	1:A:11:LEU:HD22	1:A:12:ASN:H	3	0.12	0.0	0.12
(1,1324)	1:A:11:LEU:HD23	1:A:12:ASN:H	3	0.12	0.0	0.12
(1,1990)	1:A:25:GLN:HB2	1:A:26:GLN:H	3	0.12	0.01	0.11
(1,1990)	1:A:25:GLN:HB3	1:A:26:GLN:H	3	0.12	0.01	0.11
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG11	2	0.3	0.16	0.3
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG12	2	0.3	0.16	0.3
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG13	2	0.3	0.16	0.3
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG21	2	0.3	0.16	0.3
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG22	2	0.3	0.16	0.3
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG23	2	0.3	0.16	0.3
(1,791)	1:A:31:TYR:HE1	1:A:32:GLU:HG2	2	0.26	0.03	0.26
(1,791)	1:A:31:TYR:HE1	1:A:32:GLU:HG3	2	0.26	0.03	0.26
(1,791)	1:A:31:TYR:HE2	1:A:32:GLU:HG2	2	0.26	0.03	0.26
(1,791)	1:A:31:TYR:HE2	1:A:32:GLU:HG3	2	0.26	0.03	0.26
(1,2304)	2:B:152:LEU:HD11	2:B:153:SER:H	2	0.24	0.05	0.24
(1,2304)	2:B:152:LEU:HD12	2:B:153:SER:H	2	0.24	0.05	0.24
(1,2304)	2:B:152:LEU:HD13	2:B:153:SER:H	2	0.24	0.05	0.24
(1,2304)	2:B:152:LEU:HD21	2:B:153:SER:H	2	0.24	0.05	0.24
(1,2304)	2:B:152:LEU:HD22	2:B:153:SER:H	2	0.24	0.05	0.24
(1,2304)	2:B:152:LEU:HD23	2:B:153:SER:H	2	0.24	0.05	0.24
(1,509)	1:A:8:MET:HE1	1:A:47:GLN:H	2	0.22	0.04	0.22
(1,509)	1:A:8:MET:HE2	1:A:47:GLN:H	2	0.22	0.04	0.22
(1,509)	1:A:8:MET:HE3	1:A:47:GLN:H	2	0.22	0.04	0.22
(1,1213)	2:B:124:LYS:H	2:B:124:LYS:HG2	2	0.22	0.07	0.22
(1,1213)	2:B:124:LYS:H	2:B:124:LYS:HG3	2	0.22	0.07	0.22
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD11	2	0.2	0.04	0.2
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD12	2	0.2	0.04	0.2
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD13	2	0.2	0.04	0.2
(1,842)	1:A:54:TYR:HD1	1:A:58:LEU:HG	2	0.2	0.08	0.2
(1,842)	1:A:54:TYR:HD2	1:A:58:LEU:HG	2	0.2	0.08	0.2
(1,1223)	2:B:170:LYS:H	2:B:170:LYS:HE2	2	0.2	0.06	0.2
(1,1223)	2:B:170:LYS:H	2:B:170:LYS:HE3	2	0.2	0.06	0.2
(1,2089)	1:A:41:LEU:H	1:A:44:GLN:HB2	2	0.2	0.04	0.2
(1,2089)	1:A:41:LEU:H	1:A:44:GLN:HB3	2	0.2	0.04	0.2
(1,2025)	1:A:31:TYR:HA	1:A:35:GLN:HE21	2	0.19	0.08	0.19
(1,2025)	1:A:31:TYR:HA	1:A:35:GLN:HE22	2	0.19	0.08	0.19
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD21	2	0.18	0.01	0.18
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD22	2	0.18	0.01	0.18
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD23	2	0.18	0.01	0.18
(1,939)	1:A:52:GLN:HG2	1:A:53:LEU:H	2	0.18	0.05	0.18

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,939)	1:A:52:GLN:HG3	1:A:53:LEU:H	2	0.18	0.05	0.18
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD11	2	0.18	0.04	0.18
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD12	2	0.18	0.04	0.18
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD13	2	0.18	0.04	0.18
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD11	2	0.18	0.04	0.18
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD12	2	0.18	0.04	0.18
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD13	2	0.18	0.04	0.18
(1,1229)	2:B:178:VAL:HA	2:B:179:ALA:H	2	0.18	0.02	0.18
(1,2220)	1:A:58:LEU:HD11	1:A:62:GLN:HE21	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD11	1:A:62:GLN:HE22	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD12	1:A:62:GLN:HE21	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD12	1:A:62:GLN:HE22	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD13	1:A:62:GLN:HE21	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD13	1:A:62:GLN:HE22	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD21	1:A:62:GLN:HE21	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD21	1:A:62:GLN:HE22	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD22	1:A:62:GLN:HE21	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD22	1:A:62:GLN:HE22	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD23	1:A:62:GLN:HE21	2	0.18	0.0	0.18
(1,2220)	1:A:58:LEU:HD23	1:A:62:GLN:HE22	2	0.18	0.0	0.18
(1,1210)	2:B:117:VAL:HG11	2:B:119:GLU:H	2	0.17	0.04	0.17
(1,1210)	2:B:117:VAL:HG12	2:B:119:GLU:H	2	0.17	0.04	0.17
(1,1210)	2:B:117:VAL:HG13	2:B:119:GLU:H	2	0.17	0.04	0.17
(1,1210)	2:B:117:VAL:HG21	2:B:119:GLU:H	2	0.17	0.04	0.17
(1,1210)	2:B:117:VAL:HG22	2:B:119:GLU:H	2	0.17	0.04	0.17
(1,1210)	2:B:117:VAL:HG23	2:B:119:GLU:H	2	0.17	0.04	0.17
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD11	2	0.16	0.03	0.16
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD12	2	0.16	0.03	0.16
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD13	2	0.16	0.03	0.16
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD21	2	0.16	0.03	0.16
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD22	2	0.16	0.03	0.16
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD23	2	0.16	0.03	0.16
(1,591)	1:A:58:LEU:HG	1:A:61:GLN:HB2	2	0.15	0.03	0.15
(1,591)	1:A:58:LEU:HG	1:A:61:GLN:HB3	2	0.15	0.03	0.15
(1,1828)	2:B:170:LYS:H	2:B:172:LYS:HB2	2	0.15	0.02	0.15
(1,1828)	2:B:170:LYS:H	2:B:172:LYS:HB3	2	0.15	0.02	0.15
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD11	2	0.14	0.03	0.14
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD12	2	0.14	0.03	0.14
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD13	2	0.14	0.03	0.14
(1,1343)	1:A:11:LEU:HD21	1:A:14:GLN:H	2	0.14	0.02	0.14
(1,1343)	1:A:11:LEU:HD22	1:A:14:GLN:H	2	0.14	0.02	0.14
(1,1343)	1:A:11:LEU:HD23	1:A:14:GLN:H	2	0.14	0.02	0.14

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD11	2	0.14	0.03	0.14
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD12	2	0.14	0.03	0.14
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD13	2	0.14	0.03	0.14
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD21	2	0.14	0.03	0.14
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD22	2	0.14	0.03	0.14
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD23	2	0.14	0.03	0.14
(1,594)	1:A:58:LEU:HG	1:A:59:ALA:H	2	0.14	0.02	0.14
(1,57)	1:A:36:ILE:HA	1:A:39:ARG:HA	2	0.13	0.02	0.13
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB1	2	0.13	0.01	0.13
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB2	2	0.13	0.01	0.13
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB3	2	0.13	0.01	0.13
(1,859)	1:A:4:LYS:HD2	1:A:5:GLN:HG2	2	0.13	0.01	0.13
(1,859)	1:A:4:LYS:HD2	1:A:5:GLN:HG3	2	0.13	0.01	0.13
(1,859)	1:A:4:LYS:HD3	1:A:5:GLN:HG2	2	0.13	0.01	0.13
(1,859)	1:A:4:LYS:HD3	1:A:5:GLN:HG3	2	0.13	0.01	0.13
(1,877)	1:A:35:GLN:HG3	1:A:36:ILE:H	2	0.13	0.01	0.13
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG21	2	0.12	0.02	0.12
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG22	2	0.12	0.02	0.12
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG23	2	0.12	0.02	0.12
(1,809)	1:A:22:TYR:HE1	2:B:168:LEU:HA	2	0.12	0.01	0.12
(1,809)	1:A:22:TYR:HE2	2:B:168:LEU:HA	2	0.12	0.01	0.12
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD11	2	0.12	0.01	0.12
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD12	2	0.12	0.01	0.12
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD13	2	0.12	0.01	0.12
(1,1653)	2:B:111:VAL:H	2:B:112:ALA:H	2	0.12	0.02	0.12
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG11	2	0.12	0.02	0.12
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG12	2	0.12	0.02	0.12
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG13	2	0.12	0.02	0.12
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG21	2	0.12	0.02	0.12
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG22	2	0.12	0.02	0.12
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG23	2	0.12	0.02	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD11	2	0.12	0.01	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD12	2	0.12	0.01	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD13	2	0.12	0.01	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD21	2	0.12	0.01	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD22	2	0.12	0.01	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD23	2	0.12	0.01	0.12
(1,471)	1:A:7:ILE:HG21	1:A:46:TYR:HB3	2	0.12	0.01	0.12
(1,471)	1:A:7:ILE:HG22	1:A:46:TYR:HB3	2	0.12	0.01	0.12
(1,471)	1:A:7:ILE:HG23	1:A:46:TYR:HB3	2	0.12	0.01	0.12
(1,1486)	1:A:30:ASN:HD22	1:A:33:GLN:HG2	2	0.12	0.01	0.12
(1,1486)	1:A:30:ASN:HD22	1:A:33:GLN:HG3	2	0.12	0.01	0.12

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,56)	1:A:7:ILE:HA	1:A:10:ALA:HA	2	0.12	0.0	0.12
(1,321)	1:A:36:ILE:HA	1:A:39:ARG:HG2	2	0.12	0.0	0.12
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD11	2	0.12	0.0	0.12
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD12	2	0.12	0.0	0.12
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD13	2	0.12	0.0	0.12
(1,557)	1:A:53:LEU:HD11	1:A:56:VAL:H	2	0.12	0.0	0.12
(1,557)	1:A:53:LEU:HD12	1:A:56:VAL:H	2	0.12	0.0	0.12
(1,557)	1:A:53:LEU:HD13	1:A:56:VAL:H	2	0.12	0.0	0.12
(1,557)	1:A:53:LEU:HD21	1:A:56:VAL:H	2	0.12	0.0	0.12
(1,557)	1:A:53:LEU:HD22	1:A:56:VAL:H	2	0.12	0.0	0.12
(1,557)	1:A:53:LEU:HD23	1:A:56:VAL:H	2	0.12	0.0	0.12
(1,625)	2:B:146:THR:H	2:B:146:THR:HG21	2	0.12	0.0	0.12
(1,625)	2:B:146:THR:H	2:B:146:THR:HG22	2	0.12	0.0	0.12
(1,625)	2:B:146:THR:H	2:B:146:THR:HG23	2	0.12	0.0	0.12
(1,1427)	1:A:30:ASN:H	1:A:34:GLN:HB2	2	0.11	0.0	0.11

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

9.5   All violated distance restraints ⓘ

9.5.1   Histogram : Distribution of distance violations ⓘ

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.
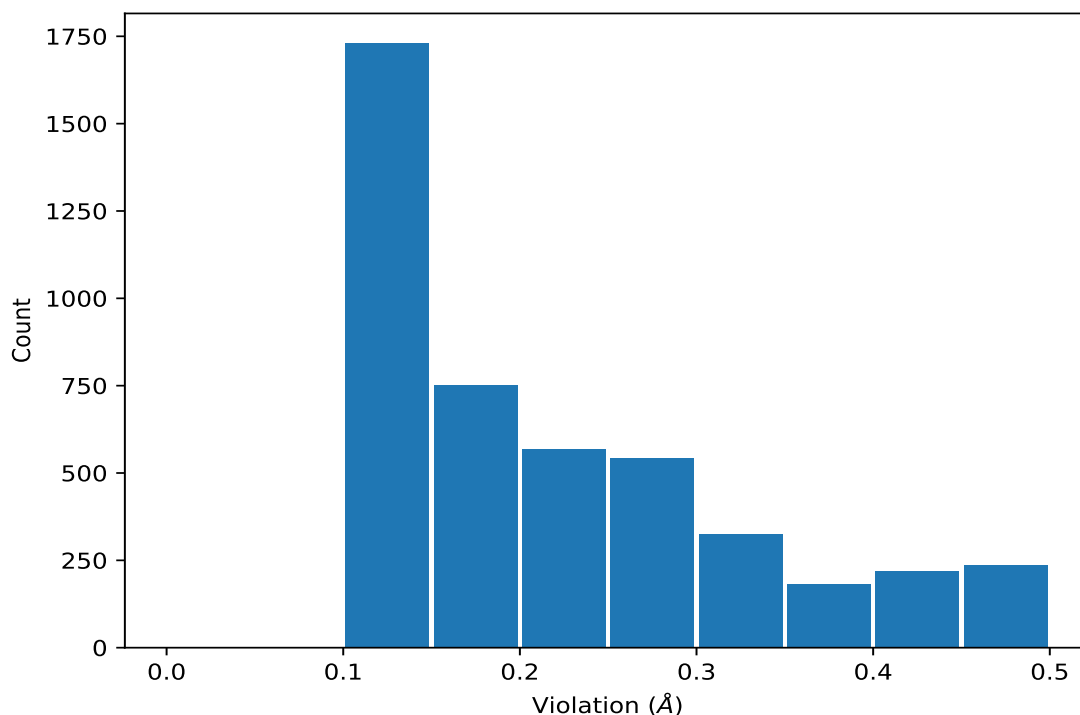
9.5.2   Table : All distance violations ⓘ

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)
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	4	0.5
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	4	0.5
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	4	0.5
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	4	0.5
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	4	0.5
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	4	0.5
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	4	0.5
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	4	0.5
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	4	0.5
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	4	0.5
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	4	0.5
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	4	0.5
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	37	0.5
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	37	0.5
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	37	0.5
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	37	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	37	0.5
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	37	0.5
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	37	0.5
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	37	0.5
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	37	0.5
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	37	0.5
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	37	0.5
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	37	0.5
(1,938)	1:A:52:GLN:HG2	2:B:159:VAL:HG11	36	0.49
(1,938)	1:A:52:GLN:HG2	2:B:159:VAL:HG12	36	0.49
(1,938)	1:A:52:GLN:HG2	2:B:159:VAL:HG13	36	0.49
(1,938)	1:A:52:GLN:HG3	2:B:159:VAL:HG11	36	0.49
(1,938)	1:A:52:GLN:HG3	2:B:159:VAL:HG12	36	0.49
(1,938)	1:A:52:GLN:HG3	2:B:159:VAL:HG13	36	0.49
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	45	0.49
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	45	0.49
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	45	0.49
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	45	0.49
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	45	0.49
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	45	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	28	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	28	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	28	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	28	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	28	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	28	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	43	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	43	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	43	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	43	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	43	0.49
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	43	0.49
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	24	0.49
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	24	0.49
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	24	0.49
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	24	0.49
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	24	0.49
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	24	0.49
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	24	0.49
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	24	0.49
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	24	0.49
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	24	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	24	0.49
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	24	0.49
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	39	0.48
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	39	0.48
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	39	0.48
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	31	0.48
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	31	0.48
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	31	0.48
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	31	0.48
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	31	0.48
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	31	0.48
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	23	0.48
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	23	0.48
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	23	0.48
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	23	0.48
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	23	0.48
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	23	0.48
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	23	0.48
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	23	0.48
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	23	0.48
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	23	0.48
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	23	0.48
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	23	0.48
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	38	0.48
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	38	0.48
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	38	0.48
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	38	0.48
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	38	0.48
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	38	0.48
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	10	0.48
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	10	0.48
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	10	0.48
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	10	0.48
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	10	0.48
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	10	0.48
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	10	0.48
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	10	0.48
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	10	0.48
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	10	0.48
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	10	0.48
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	10	0.48
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	45	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	45	0.48
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	45	0.48
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	45	0.48
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	45	0.48
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	45	0.48
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	40	0.47
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	40	0.47
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	40	0.47
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	27	0.47
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	27	0.47
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	27	0.47
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	27	0.47
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	27	0.47
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	27	0.47
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	27	0.47
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	27	0.47
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	27	0.47
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	27	0.47
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	27	0.47
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	27	0.47
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	33	0.47
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	33	0.47
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	33	0.47
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	33	0.47
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	33	0.47
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	33	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	11	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	11	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	11	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	11	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	11	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	11	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	11	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	11	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	11	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	11	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	11	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	11	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	21	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	21	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	21	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	21	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	21	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	21	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	21	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	21	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	21	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	21	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	21	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	21	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	30	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	30	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	30	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	30	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	30	0.47
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	30	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	30	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	30	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	30	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	30	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	30	0.47
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	30	0.47
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	38	0.46
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	38	0.46
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	38	0.46
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG11	3	0.46
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG12	3	0.46
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG13	3	0.46
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG21	3	0.46
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG22	3	0.46
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG23	3	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	20	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	20	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	20	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	20	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	20	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	20	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	20	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	20	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	20	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	20	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	20	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	20	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	25	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	25	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	25	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	25	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	25	0.46
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	25	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	25	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	25	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	25	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	25	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	25	0.46
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	25	0.46
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG21	22	0.46
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG22	22	0.46
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG23	22	0.46
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG21	22	0.46
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG22	22	0.46
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG23	22	0.46
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	23	0.46
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	23	0.46
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	23	0.46
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	23	0.46
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	23	0.46
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	23	0.46
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	23	0.46
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	23	0.46
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	23	0.46
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	23	0.46
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	23	0.46
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	23	0.46
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	35	0.45
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	35	0.45
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	35	0.45
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	35	0.45
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	35	0.45
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	35	0.45
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	42	0.45
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	42	0.45
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	42	0.45
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	42	0.45
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	42	0.45
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	42	0.45
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	29	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	29	0.45
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	29	0.45
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	29	0.45
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	29	0.45
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	29	0.45
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	29	0.45
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	29	0.45
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	29	0.45
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	29	0.45
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	29	0.45
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	29	0.45
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	36	0.44
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	36	0.44
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	36	0.44
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	36	0.44
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	36	0.44
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	36	0.44
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	44	0.44
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	44	0.44
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	44	0.44
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	44	0.44
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	44	0.44
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	44	0.44
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	43	0.44
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	43	0.44
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	43	0.44
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	43	0.44
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	43	0.44
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	43	0.44
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	43	0.44
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	43	0.44
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	43	0.44
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	43	0.44
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	43	0.44
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	43	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	26	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	26	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	26	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	26	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	26	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	26	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	26	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	26	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	26	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	26	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	26	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	26	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	27	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	27	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	27	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	27	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	27	0.44
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	27	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	27	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	27	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	27	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	27	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	27	0.44
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	27	0.44
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	31	0.43
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	31	0.43
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	31	0.43
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	33	0.43
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	33	0.43
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	33	0.43
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	44	0.43
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	44	0.43
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	43	0.43
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	43	0.43
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	43	0.43
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	43	0.43
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	43	0.43
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	43	0.43
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	39	0.43
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	39	0.43
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	39	0.43
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	39	0.43
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	39	0.43
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	39	0.43
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	45	0.42
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	45	0.42
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	45	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	28	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	28	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	28	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	28	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	28	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	28	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	40	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	40	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	40	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	40	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	40	0.42
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	40	0.42
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	43	0.42
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	43	0.42
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	43	0.42
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	43	0.42
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	43	0.42
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	43	0.42
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	43	0.42
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	43	0.42
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	43	0.42
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	43	0.42
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	43	0.42
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	43	0.42
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	26	0.42
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	26	0.42
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	26	0.42
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	31	0.42
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	31	0.42
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	31	0.42
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	26	0.41
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	26	0.41
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	26	0.41
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	37	0.41
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	37	0.41
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	37	0.41
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	37	0.41
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	37	0.41
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	37	0.41
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	40	0.41
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	40	0.41
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	40	0.41
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	40	0.41
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	40	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	40	0.41
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	31	0.41
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	31	0.41
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	31	0.41
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	31	0.41
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	31	0.41
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	31	0.41
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	35	0.41
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	35	0.41
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	35	0.41
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	35	0.41
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	35	0.41
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	35	0.41
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	35	0.41
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	35	0.41
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	35	0.41
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	35	0.41
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	35	0.41
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	35	0.41
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	22	0.41
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	22	0.41
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	22	0.41
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	44	0.41
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	44	0.41
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	44	0.41
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	45	0.4
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	45	0.4
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	45	0.4
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	45	0.4
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	45	0.4
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	45	0.4
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	28	0.4
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	28	0.4
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	28	0.4
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	28	0.4
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	28	0.4
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	28	0.4
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	33	0.4
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	33	0.4
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	33	0.4
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	33	0.4
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	33	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	33	0.4
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD11	40	0.4
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD12	40	0.4
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD13	40	0.4
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD21	40	0.4
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD22	40	0.4
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD23	40	0.4
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD11	40	0.4
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD12	40	0.4
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD13	40	0.4
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD21	40	0.4
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD22	40	0.4
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD23	40	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	31	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	31	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	31	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	31	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	31	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	31	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	31	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	31	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	31	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	31	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	31	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	31	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	39	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	39	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	39	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	39	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	39	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	39	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	39	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	39	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	39	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	39	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	39	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	39	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	40	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	40	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	40	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	40	0.4
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	40	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	40	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	40	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	40	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	40	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	40	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	40	0.4
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	40	0.4
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	45	0.4
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	45	0.4
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	45	0.4
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	43	0.4
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	43	0.4
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	43	0.4
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	43	0.4
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	43	0.4
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	43	0.4
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	43	0.4
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	43	0.4
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	43	0.4
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	41	0.39
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	41	0.39
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	41	0.39
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	38	0.39
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	38	0.39
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	39	0.39
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	39	0.39
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	39	0.39
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	39	0.39
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	39	0.39
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	39	0.39
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	26	0.39
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	26	0.39
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	26	0.39
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	26	0.39
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	26	0.39
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	26	0.39
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	26	0.39
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	26	0.39
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	26	0.39
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	26	0.39
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	26	0.39
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	26	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	37	0.39
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	37	0.39
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	37	0.39
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	37	0.39
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	37	0.39
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	37	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	14	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	14	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	14	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	14	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	14	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	14	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	14	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	14	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	14	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	14	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	14	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	14	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	41	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	41	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	41	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	41	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	41	0.39
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	41	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	41	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	41	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	41	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	41	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	41	0.39
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	41	0.39
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	42	0.38
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	42	0.38
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	42	0.38
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	33	0.38
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	33	0.38
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	33	0.38
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	33	0.38
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	33	0.38
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	33	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	29	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	29	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	29	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	29	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	29	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	29	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	36	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	36	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	36	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	36	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	36	0.38
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	36	0.38
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	36	0.38
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	36	0.38
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	36	0.38
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	36	0.38
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	36	0.38
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	36	0.38
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	43	0.37
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	43	0.37
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	43	0.37
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	30	0.37
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	30	0.37
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	30	0.37
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	30	0.37
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	30	0.37
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	30	0.37
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	37	0.37
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	37	0.37
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	37	0.37
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	37	0.37
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	37	0.37
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	37	0.37
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	42	0.37
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	42	0.37
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	42	0.37
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	42	0.37
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	42	0.37
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	42	0.37
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	16	0.37
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	16	0.37
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	16	0.37
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	16	0.37
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	16	0.37
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	16	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	16	0.37
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	16	0.37
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	16	0.37
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	16	0.37
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	16	0.37
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	16	0.37
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	43	0.37
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	43	0.37
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	43	0.37
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG11	39	0.37
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG12	39	0.37
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG13	39	0.37
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	37	0.36
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	37	0.36
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	37	0.36
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	41	0.36
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	41	0.36
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	41	0.36
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	41	0.36
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	41	0.36
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	41	0.36
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	38	0.36
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	38	0.36
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	38	0.36
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	38	0.36
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	38	0.36
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	38	0.36
(1,2215)	1:A:58:LEU:HD11	1:A:61:GLN:HB2	32	0.36
(1,2215)	1:A:58:LEU:HD11	1:A:61:GLN:HB3	32	0.36
(1,2215)	1:A:58:LEU:HD12	1:A:61:GLN:HB2	32	0.36
(1,2215)	1:A:58:LEU:HD12	1:A:61:GLN:HB3	32	0.36
(1,2215)	1:A:58:LEU:HD13	1:A:61:GLN:HB2	32	0.36
(1,2215)	1:A:58:LEU:HD13	1:A:61:GLN:HB3	32	0.36
(1,2215)	1:A:58:LEU:HD21	1:A:61:GLN:HB2	32	0.36
(1,2215)	1:A:58:LEU:HD21	1:A:61:GLN:HB3	32	0.36
(1,2215)	1:A:58:LEU:HD22	1:A:61:GLN:HB2	32	0.36
(1,2215)	1:A:58:LEU:HD22	1:A:61:GLN:HB3	32	0.36
(1,2215)	1:A:58:LEU:HD23	1:A:61:GLN:HB2	32	0.36
(1,2215)	1:A:58:LEU:HD23	1:A:61:GLN:HB3	32	0.36
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	38	0.36
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	38	0.36
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	38	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	38	0.36
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	38	0.36
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	38	0.36
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	38	0.36
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	38	0.36
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	38	0.36
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	38	0.36
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	38	0.36
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	38	0.36
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	30	0.36
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	30	0.36
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	30	0.36
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	26	0.36
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	26	0.36
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	26	0.36
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	26	0.36
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	26	0.36
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	26	0.36
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	43	0.36
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	43	0.36
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	43	0.36
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	43	0.36
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	43	0.36
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	43	0.36
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	42	0.36
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	42	0.36
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	42	0.36
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	42	0.36
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	42	0.36
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	42	0.36
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	42	0.36
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	42	0.36
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	42	0.36
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	3	0.35
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	3	0.35
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	3	0.35
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	3	0.35
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	3	0.35
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	3	0.35
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	27	0.35
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	27	0.35
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	27	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	27	0.35
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	27	0.35
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	27	0.35
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	45	0.35
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	45	0.35
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	45	0.35
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	45	0.35
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	45	0.35
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	45	0.35
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	34	0.35
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	34	0.35
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	34	0.35
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	34	0.35
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	34	0.35
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	34	0.35
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	34	0.35
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	34	0.35
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	34	0.35
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	34	0.35
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	34	0.35
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	34	0.35
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	32	0.34
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	32	0.34
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	32	0.34
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	32	0.34
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	32	0.34
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	32	0.34
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	33	0.34
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	33	0.34
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	33	0.34
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	33	0.34
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	33	0.34
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	33	0.34
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	39	0.34
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	39	0.34
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	39	0.34
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	39	0.34
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	39	0.34
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	39	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	34	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	34	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	34	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	34	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	34	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	34	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	45	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	45	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	45	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	45	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	45	0.34
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	45	0.34
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	38	0.34
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	38	0.34
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	38	0.34
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	38	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	22	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	22	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	22	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	22	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	22	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	22	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	31	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	31	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	31	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	31	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	31	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	31	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	39	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	39	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	39	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	39	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	39	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	39	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	44	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	44	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	44	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	44	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	44	0.34
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	44	0.34
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	4	0.34
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	4	0.34
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	4	0.34
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	4	0.34
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	4	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	4	0.34
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	4	0.34
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	4	0.34
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	4	0.34
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	4	0.34
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	4	0.34
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	4	0.34
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	32	0.34
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	32	0.34
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	32	0.34
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	32	0.34
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	32	0.34
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	32	0.34
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG11	37	0.34
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG12	37	0.34
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG13	37	0.34
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	36	0.33
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	36	0.33
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	36	0.33
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	34	0.33
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	34	0.33
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	34	0.33
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	34	0.33
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	34	0.33
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	34	0.33
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	24	0.33
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	24	0.33
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	24	0.33
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	24	0.33
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	24	0.33
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	24	0.33
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	40	0.33
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	40	0.33
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	40	0.33
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	40	0.33
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	40	0.33
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	40	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	3	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	3	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	3	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	3	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	3	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	3	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	22	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	22	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	22	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	22	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	22	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	22	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	30	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	30	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	30	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	30	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	30	0.33
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	30	0.33
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG21	43	0.33
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG22	43	0.33
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG23	43	0.33
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG21	43	0.33
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG22	43	0.33
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG23	43	0.33
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	18	0.33
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	18	0.33
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	18	0.33
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	18	0.33
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	18	0.33
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	18	0.33
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	21	0.33
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	21	0.33
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	21	0.33
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	42	0.33
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	42	0.33
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	42	0.33
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	31	0.33
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	31	0.33
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	31	0.33
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	31	0.33
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	31	0.33
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	31	0.33
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	36	0.33
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	36	0.33
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	36	0.33
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	36	0.33
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	36	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	36	0.33
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	39	0.33
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	39	0.33
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	39	0.33
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	39	0.33
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	39	0.33
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	39	0.33
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	20	0.32
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	20	0.32
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	20	0.32
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	20	0.32
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	20	0.32
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	20	0.32
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	25	0.32
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	25	0.32
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	25	0.32
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	25	0.32
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	25	0.32
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	25	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	21	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	21	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	21	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	21	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	21	0.32
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	21	0.32
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	45	0.32
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	45	0.32
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	45	0.32
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	45	0.32
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	25	0.32
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	25	0.32
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	25	0.32
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	25	0.32
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	25	0.32
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	25	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	18	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	18	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	18	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	18	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	18	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	18	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	18	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	18	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	18	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	18	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	18	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	18	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	44	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	44	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	44	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	44	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	44	0.32
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	44	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	44	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	44	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	44	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	44	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	44	0.32
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	44	0.32
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	27	0.32
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	27	0.32
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	27	0.32
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	27	0.32
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	27	0.32
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	27	0.32
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	23	0.32
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	23	0.32
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	23	0.32
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD11	45	0.32
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD12	45	0.32
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD13	45	0.32
(1,549)	1:A:58:LEU:HD11	1:A:59:ALA:HA	32	0.31
(1,549)	1:A:58:LEU:HD12	1:A:59:ALA:HA	32	0.31
(1,549)	1:A:58:LEU:HD13	1:A:59:ALA:HA	32	0.31
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	45	0.31
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	45	0.31
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	45	0.31
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	45	0.31
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	45	0.31
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	45	0.31
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	31	0.31
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	31	0.31
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	19	0.31
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	19	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	19	0.31
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	19	0.31
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	19	0.31
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	19	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	30	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	30	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	30	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	30	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	30	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	30	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	34	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	34	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	34	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	34	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	34	0.31
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	34	0.31
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	28	0.31
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	28	0.31
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	28	0.31
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	28	0.31
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	28	0.31
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	28	0.31
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	32	0.31
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	32	0.31
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	32	0.31
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	32	0.31
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	32	0.31
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	32	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	6	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	6	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	6	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	6	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	6	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	6	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	6	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	6	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	6	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	6	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	6	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	6	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	25	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	25	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	25	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	25	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	25	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	25	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	25	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	25	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	25	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	25	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	25	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	25	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	36	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	36	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	36	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	36	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	36	0.31
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	36	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	36	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	36	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	36	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	36	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	36	0.31
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	36	0.31
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	22	0.3
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	22	0.3
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	22	0.3
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	22	0.3
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	22	0.3
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	22	0.3
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	31	0.3
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	31	0.3
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	31	0.3
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	31	0.3
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	31	0.3
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	31	0.3
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	39	0.3
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	39	0.3
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	39	0.3
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	39	0.3
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	39	0.3
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	39	0.3
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	44	0.3
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	44	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	44	0.3
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	44	0.3
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	44	0.3
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	44	0.3
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	14	0.3
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	14	0.3
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	14	0.3
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	14	0.3
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	14	0.3
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	14	0.3
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	3	0.3
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	3	0.3
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	3	0.3
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	3	0.3
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	3	0.3
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	3	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	22	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	22	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	22	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	22	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	22	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	22	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	22	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	22	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	22	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	22	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	22	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	22	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	45	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	45	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	45	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	45	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	45	0.3
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	45	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	45	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	45	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	45	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	45	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	45	0.3
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	45	0.3
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	44	0.3
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	44	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	44	0.3
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	44	0.3
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	44	0.3
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	44	0.3
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG21	43	0.29
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG22	43	0.29
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG23	43	0.29
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	38	0.29
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	38	0.29
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	38	0.29
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	38	0.29
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	38	0.29
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	38	0.29
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	42	0.29
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	42	0.29
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	42	0.29
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	42	0.29
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	42	0.29
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	42	0.29
(1,2304)	2:B:152:LEU:HD11	2:B:153:SER:H	33	0.29
(1,2304)	2:B:152:LEU:HD12	2:B:153:SER:H	33	0.29
(1,2304)	2:B:152:LEU:HD13	2:B:153:SER:H	33	0.29
(1,2304)	2:B:152:LEU:HD21	2:B:153:SER:H	33	0.29
(1,2304)	2:B:152:LEU:HD22	2:B:153:SER:H	33	0.29
(1,2304)	2:B:152:LEU:HD23	2:B:153:SER:H	33	0.29
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG2	42	0.29
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG3	42	0.29
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG2	42	0.29
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG3	42	0.29
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG2	42	0.29
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG3	42	0.29
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG2	42	0.29
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG3	42	0.29
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG2	42	0.29
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG3	42	0.29
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG2	42	0.29
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG3	42	0.29
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG2	44	0.29
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG3	44	0.29
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG2	44	0.29
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG3	44	0.29
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG2	44	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG3	44	0.29
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG2	44	0.29
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG3	44	0.29
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG2	44	0.29
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG3	44	0.29
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG2	44	0.29
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG3	44	0.29
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	25	0.29
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	25	0.29
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	25	0.29
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	25	0.29
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	25	0.29
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	25	0.29
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	34	0.29
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	34	0.29
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	34	0.29
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	34	0.29
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	34	0.29
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	34	0.29
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	33	0.29
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	33	0.29
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	33	0.29
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	33	0.29
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	33	0.29
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	33	0.29
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	33	0.29
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	33	0.29
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	33	0.29
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	33	0.29
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	33	0.29
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	33	0.29
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	22	0.29
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	22	0.29
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	22	0.29
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	22	0.29
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	22	0.29
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	22	0.29
(1,1733)	2:B:146:THR:HA	2:B:147:GLU:H	38	0.29
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	20	0.29
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	20	0.29
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	20	0.29
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	20	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	20	0.29
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	20	0.29
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	35	0.29
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	35	0.29
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	35	0.29
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	35	0.29
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	35	0.29
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	35	0.29
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	38	0.29
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	38	0.29
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	38	0.29
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	38	0.29
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	38	0.29
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	38	0.29
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	39	0.29
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	39	0.29
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	39	0.29
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	39	0.29
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	39	0.29
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	39	0.29
(1,842)	1:A:54:TYR:HD1	1:A:58:LEU:HG	44	0.28
(1,842)	1:A:54:TYR:HD2	1:A:58:LEU:HG	44	0.28
(1,791)	1:A:31:TYR:HE1	1:A:32:GLU:HG2	42	0.28
(1,791)	1:A:31:TYR:HE1	1:A:32:GLU:HG3	42	0.28
(1,791)	1:A:31:TYR:HE2	1:A:32:GLU:HG2	42	0.28
(1,791)	1:A:31:TYR:HE2	1:A:32:GLU:HG3	42	0.28
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB2	44	0.28
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB3	44	0.28
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB2	44	0.28
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB3	44	0.28
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	19	0.28
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	19	0.28
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	35	0.28
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	35	0.28
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	35	0.28
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	35	0.28
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	35	0.28
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	35	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	11	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	11	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	11	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	11	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	11	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	11	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	35	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	35	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	35	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	35	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	35	0.28
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	35	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	8	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	8	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	8	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	8	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	8	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	8	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	8	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	8	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	8	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	8	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	8	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	8	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	41	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	41	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	41	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	41	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	41	0.28
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	41	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	41	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	41	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	41	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	41	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	41	0.28
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	41	0.28
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG2	36	0.28
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG3	36	0.28
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG2	36	0.28
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG3	36	0.28
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG2	36	0.28
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG3	36	0.28
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG2	36	0.28
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG3	36	0.28
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG2	36	0.28
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG3	36	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG2	36	0.28
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG3	36	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	9	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	9	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	9	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	9	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	9	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	9	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	11	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	11	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	11	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	11	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	11	0.28
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	11	0.28
(1,1755)	2:B:152:LEU:HD21	2:B:153:SER:H	39	0.28
(1,1755)	2:B:152:LEU:HD22	2:B:153:SER:H	39	0.28
(1,1755)	2:B:152:LEU:HD23	2:B:153:SER:H	39	0.28
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	14	0.28
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	14	0.28
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	14	0.28
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	14	0.28
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	14	0.28
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	14	0.28
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	28	0.28
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	28	0.28
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	28	0.28
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	28	0.28
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	28	0.28
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	28	0.28
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	45	0.28
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	45	0.28
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	45	0.28
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	45	0.28
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	45	0.28
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	45	0.28
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	45	0.28
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	45	0.28
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	45	0.28
(1,1213)	2:B:124:LYS:H	2:B:124:LYS:HG2	43	0.28
(1,1213)	2:B:124:LYS:H	2:B:124:LYS:HG3	43	0.28
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG11	39	0.28
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG12	39	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG13	39	0.28
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG21	39	0.28
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG22	39	0.28
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG23	39	0.28
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	35	0.27
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	35	0.27
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	35	0.27
(1,577)	1:A:52:GLN:HG2	1:A:56:VAL:HG21	36	0.27
(1,577)	1:A:52:GLN:HG2	1:A:56:VAL:HG22	36	0.27
(1,577)	1:A:52:GLN:HG2	1:A:56:VAL:HG23	36	0.27
(1,577)	1:A:52:GLN:HG3	1:A:56:VAL:HG21	36	0.27
(1,577)	1:A:52:GLN:HG3	1:A:56:VAL:HG22	36	0.27
(1,577)	1:A:52:GLN:HG3	1:A:56:VAL:HG23	36	0.27
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG2	45	0.27
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG3	45	0.27
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG2	45	0.27
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG3	45	0.27
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG2	45	0.27
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG3	45	0.27
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG2	45	0.27
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG3	45	0.27
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG2	45	0.27
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG3	45	0.27
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG2	45	0.27
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG3	45	0.27
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	32	0.27
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	32	0.27
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	32	0.27
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	32	0.27
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	32	0.27
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	32	0.27
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	24	0.27
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	24	0.27
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	24	0.27
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	24	0.27
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	24	0.27
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	24	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	5	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	5	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	5	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	5	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	5	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	5	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	5	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	5	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	5	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	5	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	5	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	6	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	6	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	6	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	6	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	6	0.27
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	6	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	6	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	6	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	6	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	6	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	6	0.27
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	6	0.27
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG21	20	0.27
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG22	20	0.27
(1,2172)	1:A:52:GLN:HE21	1:A:56:VAL:HG23	20	0.27
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG21	20	0.27
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG22	20	0.27
(1,2172)	1:A:52:GLN:HE22	1:A:56:VAL:HG23	20	0.27
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG2	43	0.27
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG3	43	0.27
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG2	43	0.27
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG3	43	0.27
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG2	43	0.27
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG3	43	0.27
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG2	43	0.27
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG3	43	0.27
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG2	43	0.27
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG3	43	0.27
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG2	43	0.27
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG3	43	0.27
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	19	0.27
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	19	0.27
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	19	0.27
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	19	0.27
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	19	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	19	0.27
(1,2025)	1:A:31:TYR:HA	1:A:35:GLN:HE21	44	0.27
(1,2025)	1:A:31:TYR:HA	1:A:35:GLN:HE22	44	0.27
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	37	0.27
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	37	0.27
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	37	0.27
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	37	0.27
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	37	0.27
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	37	0.27
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD11	14	0.27
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD12	14	0.27
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD13	14	0.27
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD21	14	0.27
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD22	14	0.27
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD23	14	0.27
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD11	14	0.27
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD12	14	0.27
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD13	14	0.27
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD21	14	0.27
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD22	14	0.27
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD23	14	0.27
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD11	37	0.27
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD12	37	0.27
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD13	37	0.27
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	40	0.27
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	40	0.27
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	40	0.27
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	40	0.27
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	40	0.27
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	40	0.27
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	40	0.27
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	40	0.27
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	40	0.27
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	34	0.27
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	34	0.27
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	34	0.27
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	34	0.27
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	34	0.27
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	34	0.27
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	34	0.27
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	34	0.27
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	34	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	28	0.26
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	28	0.26
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	28	0.26
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	14	0.26
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	14	0.26
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	14	0.26
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	14	0.26
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	14	0.26
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	14	0.26
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	43	0.26
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	43	0.26
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	43	0.26
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	43	0.26
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	43	0.26
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	43	0.26
(1,509)	1:A:8:MET:HE1	1:A:47:GLN:H	44	0.26
(1,509)	1:A:8:MET:HE2	1:A:47:GLN:H	44	0.26
(1,509)	1:A:8:MET:HE3	1:A:47:GLN:H	44	0.26
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	4	0.26
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	4	0.26
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	4	0.26
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	4	0.26
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	4	0.26
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	4	0.26
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	35	0.26
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	35	0.26
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	35	0.26
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	35	0.26
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	35	0.26
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	35	0.26
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	16	0.26
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	16	0.26
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	16	0.26
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	16	0.26
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	16	0.26
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	16	0.26
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	43	0.26
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	43	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	24	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	24	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	24	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	24	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	24	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	24	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	34	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	34	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	34	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	34	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	34	0.26
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	34	0.26
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	25	0.26
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	25	0.26
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	25	0.26
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	25	0.26
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	25	0.26
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	25	0.26
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	42	0.26
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	42	0.26
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	42	0.26
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	42	0.26
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	42	0.26
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	42	0.26
(1,1223)	2:B:170:LYS:H	2:B:170:LYS:HE2	43	0.26
(1,1223)	2:B:170:LYS:H	2:B:170:LYS:HE3	43	0.26
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	29	0.25
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	29	0.25
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	29	0.25
(1,764)	1:A:19:PHE:HZ	2:B:168:LEU:HD21	38	0.25
(1,764)	1:A:19:PHE:HZ	2:B:168:LEU:HD22	38	0.25
(1,764)	1:A:19:PHE:HZ	2:B:168:LEU:HD23	38	0.25
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG21	43	0.25
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG22	43	0.25
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG23	43	0.25
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	29	0.25
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	29	0.25
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	37	0.25
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	37	0.25
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	37	0.25
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	37	0.25
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	37	0.25
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	37	0.25
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	41	0.25
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	41	0.25
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	41	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	41	0.25
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	41	0.25
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	41	0.25
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	10	0.25
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	10	0.25
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	10	0.25
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	10	0.25
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	10	0.25
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	10	0.25
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	36	0.25
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	36	0.25
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	22	0.25
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	22	0.25
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	22	0.25
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	22	0.25
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	22	0.25
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	22	0.25
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	25	0.25
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	25	0.25
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	25	0.25
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	25	0.25
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	25	0.25
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	25	0.25
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	41	0.25
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	41	0.25
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	41	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	37	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	37	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	37	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	39	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	39	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	39	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	40	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	40	0.25
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	40	0.25
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	33	0.25
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	33	0.25
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	33	0.25
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	33	0.25
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	33	0.25
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	33	0.25
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	34	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	34	0.25
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	34	0.25
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	34	0.25
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	34	0.25
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	34	0.25
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	40	0.25
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	40	0.25
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	40	0.25
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	40	0.25
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	40	0.25
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	40	0.25
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	19	0.25
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	19	0.25
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	19	0.25
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	19	0.25
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	19	0.25
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	19	0.25
(1,939)	1:A:52:GLN:HG2	1:A:53:LEU:H	36	0.24
(1,939)	1:A:52:GLN:HG3	1:A:53:LEU:H	36	0.24
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG21	35	0.24
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG22	35	0.24
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG23	35	0.24
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	4	0.24
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	4	0.24
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	4	0.24
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	4	0.24
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	4	0.24
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	4	0.24
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD11	43	0.24
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD12	43	0.24
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD13	43	0.24
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD11	43	0.24
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD12	43	0.24
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD13	43	0.24
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD11	43	0.24
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD12	43	0.24
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD13	43	0.24
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD11	45	0.24
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD12	45	0.24
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD13	45	0.24
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD11	45	0.24
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD12	45	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD13	45	0.24
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	36	0.24
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	36	0.24
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG2	14	0.24
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG3	14	0.24
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG2	14	0.24
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG3	14	0.24
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG2	14	0.24
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG3	14	0.24
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG2	14	0.24
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG3	14	0.24
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG2	14	0.24
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG3	14	0.24
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG2	14	0.24
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG3	14	0.24
(1,2268)	2:B:125:PRO:HB2	2:B:126:THR:H	34	0.24
(1,2268)	2:B:125:PRO:HB3	2:B:126:THR:H	34	0.24
(1,2266)	2:B:123:LEU:HD11	2:B:124:LYS:H	34	0.24
(1,2266)	2:B:123:LEU:HD12	2:B:124:LYS:H	34	0.24
(1,2266)	2:B:123:LEU:HD13	2:B:124:LYS:H	34	0.24
(1,2266)	2:B:123:LEU:HD21	2:B:124:LYS:H	34	0.24
(1,2266)	2:B:123:LEU:HD22	2:B:124:LYS:H	34	0.24
(1,2266)	2:B:123:LEU:HD23	2:B:124:LYS:H	34	0.24
(1,2214)	1:A:58:LEU:HD11	1:A:61:GLN:H	32	0.24
(1,2214)	1:A:58:LEU:HD12	1:A:61:GLN:H	32	0.24
(1,2214)	1:A:58:LEU:HD13	1:A:61:GLN:H	32	0.24
(1,2214)	1:A:58:LEU:HD21	1:A:61:GLN:H	32	0.24
(1,2214)	1:A:58:LEU:HD22	1:A:61:GLN:H	32	0.24
(1,2214)	1:A:58:LEU:HD23	1:A:61:GLN:H	32	0.24
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	18	0.24
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	18	0.24
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	18	0.24
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	18	0.24
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	18	0.24
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	18	0.24
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	6	0.24
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	6	0.24
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	6	0.24
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	6	0.24
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	6	0.24
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	6	0.24
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD11	45	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD12	45	0.24
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD13	45	0.24
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD21	45	0.24
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD22	45	0.24
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD23	45	0.24
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD11	45	0.24
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD12	45	0.24
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD13	45	0.24
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD21	45	0.24
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD22	45	0.24
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD23	45	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	21	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	21	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	21	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	21	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	21	0.24
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	21	0.24
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD1	41	0.24
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD2	41	0.24
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD1	41	0.24
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD2	41	0.24
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD1	41	0.24
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD2	41	0.24
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	41	0.24
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	41	0.24
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	41	0.24
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	41	0.24
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	41	0.24
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	41	0.24
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	44	0.24
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	44	0.24
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	44	0.24
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	44	0.24
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	44	0.24
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	44	0.24
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	11	0.24
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	11	0.24
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	11	0.24
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	11	0.24
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	11	0.24
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	11	0.24
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	30	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	30	0.24
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	30	0.24
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	30	0.24
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	30	0.24
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	30	0.24
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	44	0.23
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	44	0.23
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	44	0.23
(1,791)	1:A:31:TYR:HE1	1:A:32:GLU:HG2	34	0.23
(1,791)	1:A:31:TYR:HE1	1:A:32:GLU:HG3	34	0.23
(1,791)	1:A:31:TYR:HE2	1:A:32:GLU:HG2	34	0.23
(1,791)	1:A:31:TYR:HE2	1:A:32:GLU:HG3	34	0.23
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB2	35	0.23
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB3	35	0.23
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB2	35	0.23
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB3	35	0.23
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	26	0.23
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	26	0.23
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	26	0.23
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	26	0.23
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	26	0.23
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	26	0.23
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	40	0.23
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	40	0.23
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	40	0.23
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	40	0.23
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	40	0.23
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	40	0.23
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	39	0.23
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	39	0.23
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	39	0.23
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	45	0.23
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	45	0.23
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	45	0.23
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD11	44	0.23
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD12	44	0.23
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD13	44	0.23
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	13	0.23
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	13	0.23
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	13	0.23
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	13	0.23
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	13	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	13	0.23
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	15	0.23
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	15	0.23
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	15	0.23
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	15	0.23
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	15	0.23
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	15	0.23
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	15	0.23
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	15	0.23
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	15	0.23
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	15	0.23
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	15	0.23
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	15	0.23
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	45	0.23
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	45	0.23
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	45	0.23
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	45	0.23
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	45	0.23
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	45	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	5	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	5	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	5	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	5	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	5	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	5	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	24	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	24	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	24	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	24	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	24	0.23
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	24	0.23
(1,2089)	1:A:41:LEU:H	1:A:44:GLN:HB2	44	0.23
(1,2089)	1:A:41:LEU:H	1:A:44:GLN:HB3	44	0.23
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG21	45	0.23
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG22	45	0.23
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG23	45	0.23
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	33	0.23
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	33	0.23
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	39	0.23
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	39	0.23
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	41	0.23
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	41	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	41	0.23
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	18	0.23
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	18	0.23
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	18	0.23
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	18	0.23
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	18	0.23
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	18	0.23
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	41	0.23
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	41	0.23
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	41	0.23
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	41	0.23
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	41	0.23
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	41	0.23
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG11	21	0.23
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG12	21	0.23
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG13	21	0.23
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	30	0.22
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	30	0.22
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	30	0.22
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	32	0.22
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	32	0.22
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	32	0.22
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	33	0.22
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	33	0.22
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG21	22	0.22
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG22	22	0.22
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG23	22	0.22
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG21	37	0.22
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG22	37	0.22
(1,623)	2:B:116:THR:HA	2:B:116:THR:HG23	37	0.22
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	42	0.22
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	42	0.22
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	42	0.22
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	43	0.22
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	43	0.22
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	43	0.22
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD11	34	0.22
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD12	34	0.22
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD13	34	0.22
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD11	34	0.22
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD12	34	0.22
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD13	34	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	21	0.22
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	21	0.22
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	21	0.22
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	21	0.22
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	21	0.22
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	21	0.22
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	40	0.22
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	40	0.22
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	40	0.22
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	14	0.22
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	14	0.22
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	14	0.22
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	14	0.22
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	14	0.22
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	14	0.22
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	19	0.22
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	19	0.22
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	19	0.22
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	19	0.22
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	19	0.22
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	19	0.22
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	44	0.22
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	44	0.22
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	44	0.22
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	44	0.22
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	44	0.22
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	44	0.22
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	40	0.22
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	40	0.22
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	40	0.22
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	40	0.22
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	40	0.22
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	40	0.22
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	13	0.22
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	13	0.22
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	13	0.22
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	13	0.22
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	13	0.22
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	13	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD11	10	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD12	10	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD13	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD21	10	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD22	10	0.22
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD23	10	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD11	10	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD12	10	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD13	10	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD21	10	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD22	10	0.22
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD23	10	0.22
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	26	0.22
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	26	0.22
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	26	0.22
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	28	0.22
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	28	0.22
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	28	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	20	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	20	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	20	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	20	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	20	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	20	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	28	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	28	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	28	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	28	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	28	0.22
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	28	0.22
(1,1705)	2:B:140:SER:H	2:B:141:LEU:H	24	0.22
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	24	0.22
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	24	0.22
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	24	0.22
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	24	0.22
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	24	0.22
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	24	0.22
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	36	0.22
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	36	0.22
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	36	0.22
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	36	0.22
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	36	0.22
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	36	0.22
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	36	0.22
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	36	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	36	0.22
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	41	0.21
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	18	0.21
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	18	0.21
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	18	0.21
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	18	0.21
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	18	0.21
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	18	0.21
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	31	0.21
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	31	0.21
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	31	0.21
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	31	0.21
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	31	0.21
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	31	0.21
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	26	0.21
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	26	0.21
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	26	0.21
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	26	0.21
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	26	0.21
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	26	0.21
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	44	0.21
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	44	0.21
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	44	0.21
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	44	0.21
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	44	0.21
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	44	0.21
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	39	0.21
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	39	0.21
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	39	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	9	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	9	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	9	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	9	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	9	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	9	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	16	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	16	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	16	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	16	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	16	0.21
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	16	0.21
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD11	17	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD12	17	0.21
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD13	17	0.21
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD21	17	0.21
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD22	17	0.21
(1,2187)	1:A:54:TYR:HD1	1:A:58:LEU:HD23	17	0.21
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD11	17	0.21
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD12	17	0.21
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD13	17	0.21
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD21	17	0.21
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD22	17	0.21
(1,2187)	1:A:54:TYR:HD2	1:A:58:LEU:HD23	17	0.21
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	32	0.21
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	32	0.21
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	32	0.21
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	32	0.21
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	32	0.21
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	32	0.21
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	14	0.21
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	14	0.21
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	31	0.21
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	31	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	5	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	5	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	5	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	5	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	5	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	5	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	5	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	5	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	5	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	5	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	5	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	5	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	20	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	20	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	20	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	20	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	20	0.21
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	20	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	20	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	20	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	20	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	20	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	20	0.21
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	20	0.21
(1,1904)	1:A:10:ALA:HB1	2:B:155:ILE:HG12	29	0.21
(1,1904)	1:A:10:ALA:HB1	2:B:155:ILE:HG13	29	0.21
(1,1904)	1:A:10:ALA:HB2	2:B:155:ILE:HG12	29	0.21
(1,1904)	1:A:10:ALA:HB2	2:B:155:ILE:HG13	29	0.21
(1,1904)	1:A:10:ALA:HB3	2:B:155:ILE:HG12	29	0.21
(1,1904)	1:A:10:ALA:HB3	2:B:155:ILE:HG13	29	0.21
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	5	0.21
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	5	0.21
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	5	0.21
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	31	0.21
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	31	0.21
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	31	0.21
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	38	0.21
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	38	0.21
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	38	0.21
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	22	0.21
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	22	0.21
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	22	0.21
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	22	0.21
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	22	0.21
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	22	0.21
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	23	0.21
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	23	0.21
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	23	0.21
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	23	0.21
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	23	0.21
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	23	0.21
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	27	0.21
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	27	0.21
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	27	0.21
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	27	0.21
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	27	0.21
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	27	0.21
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	39	0.21
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	39	0.21
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	39	0.21
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	39	0.21
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	39	0.21
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	39	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	39	0.21
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	39	0.21
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	39	0.21
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	18	0.21
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	18	0.21
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	18	0.21
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	18	0.21
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	18	0.21
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	18	0.21
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	18	0.21
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	18	0.21
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	18	0.21
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	25	0.21
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	25	0.21
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	25	0.21
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	25	0.21
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	25	0.21
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	25	0.21
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	25	0.21
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	25	0.21
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	25	0.21
(1,1210)	2:B:117:VAL:HG11	2:B:119:GLU:H	20	0.21
(1,1210)	2:B:117:VAL:HG12	2:B:119:GLU:H	20	0.21
(1,1210)	2:B:117:VAL:HG13	2:B:119:GLU:H	20	0.21
(1,1210)	2:B:117:VAL:HG21	2:B:119:GLU:H	20	0.21
(1,1210)	2:B:117:VAL:HG22	2:B:119:GLU:H	20	0.21
(1,1210)	2:B:117:VAL:HG23	2:B:119:GLU:H	20	0.21
(1,924)	2:B:151:GLU:H	2:B:151:GLU:HG2	26	0.2
(1,924)	2:B:151:GLU:H	2:B:151:GLU:HG3	26	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	14	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	14	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	14	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	19	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	19	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	19	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	22	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	22	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	22	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	24	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	24	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	24	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	27	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	27	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	27	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	34	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	34	0.2
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	34	0.2
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	32	0.2
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	32	0.2
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	26	0.2
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	26	0.2
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	26	0.2
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	26	0.2
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	26	0.2
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	26	0.2
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	33	0.2
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	33	0.2
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	33	0.2
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	33	0.2
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	33	0.2
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	33	0.2
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	39	0.2
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	39	0.2
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	39	0.2
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	39	0.2
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	39	0.2
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	39	0.2
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	44	0.2
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	44	0.2
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB2	40	0.2
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB3	40	0.2
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB2	38	0.2
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB3	38	0.2
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	42	0.2
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	42	0.2
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	42	0.2
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	42	0.2
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	21	0.2
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	21	0.2
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	21	0.2
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	21	0.2
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	21	0.2
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	21	0.2
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD11	4	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD12	4	0.2
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD13	4	0.2
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD21	4	0.2
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD22	4	0.2
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD23	4	0.2
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD11	4	0.2
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD12	4	0.2
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD13	4	0.2
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD21	4	0.2
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD22	4	0.2
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD23	4	0.2
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	36	0.2
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	36	0.2
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	36	0.2
(1,1755)	2:B:152:LEU:HD21	2:B:153:SER:H	26	0.2
(1,1755)	2:B:152:LEU:HD22	2:B:153:SER:H	26	0.2
(1,1755)	2:B:152:LEU:HD23	2:B:153:SER:H	26	0.2
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	37	0.2
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	37	0.2
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	37	0.2
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	37	0.2
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	37	0.2
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	37	0.2
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	37	0.2
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	37	0.2
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	37	0.2
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	37	0.2
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	37	0.2
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	37	0.2
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	37	0.2
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	37	0.2
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	37	0.2
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	28	0.2
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	28	0.2
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	28	0.2
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	28	0.2
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	28	0.2
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	28	0.2
(1,983)	1:A:14:GLN:HB2	1:A:15:THR:HG21	43	0.19
(1,983)	1:A:14:GLN:HB2	1:A:15:THR:HG22	43	0.19
(1,983)	1:A:14:GLN:HB2	1:A:15:THR:HG23	43	0.19
(1,983)	1:A:14:GLN:HB3	1:A:15:THR:HG21	43	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,983)	1:A:14:GLN:HB3	1:A:15:THR:HG22	43	0.19
(1,983)	1:A:14:GLN:HB3	1:A:15:THR:HG23	43	0.19
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	11	0.19
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	11	0.19
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	11	0.19
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	22	0.19
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	22	0.19
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	44	0.19
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG21	18	0.19
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG22	18	0.19
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG23	18	0.19
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD11	38	0.19
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD12	38	0.19
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD13	38	0.19
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD11	38	0.19
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD12	38	0.19
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD13	38	0.19
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD11	38	0.19
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD12	38	0.19
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD13	38	0.19
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	32	0.19
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	32	0.19
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	32	0.19
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	32	0.19
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	32	0.19
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	32	0.19
(1,509)	1:A:8:MET:HE1	1:A:47:GLN:H	45	0.19
(1,509)	1:A:8:MET:HE2	1:A:47:GLN:H	45	0.19
(1,509)	1:A:8:MET:HE3	1:A:47:GLN:H	45	0.19
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD21	43	0.19
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD22	43	0.19
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD23	43	0.19
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD11	38	0.19
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD12	38	0.19
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD13	38	0.19
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD11	38	0.19
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD12	38	0.19
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD13	38	0.19
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG21	21	0.19
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG22	21	0.19
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG23	21	0.19
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG21	21	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG22	21	0.19
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG23	21	0.19
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG21	43	0.19
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG22	43	0.19
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG23	43	0.19
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG21	43	0.19
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG22	43	0.19
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG23	43	0.19
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	27	0.19
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	27	0.19
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	42	0.19
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	42	0.19
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	42	0.19
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	22	0.19
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	22	0.19
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	22	0.19
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	22	0.19
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	22	0.19
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	22	0.19
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	42	0.19
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	42	0.19
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	42	0.19
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	42	0.19
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	42	0.19
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	42	0.19
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	2	0.19
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	2	0.19
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	2	0.19
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	2	0.19
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	2	0.19
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	2	0.19
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	26	0.19
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	26	0.19
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	26	0.19
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	26	0.19
(1,2070)	1:A:38:ILE:HG21	1:A:41:LEU:HD11	41	0.19
(1,2070)	1:A:38:ILE:HG21	1:A:41:LEU:HD12	41	0.19
(1,2070)	1:A:38:ILE:HG21	1:A:41:LEU:HD13	41	0.19
(1,2070)	1:A:38:ILE:HG21	1:A:41:LEU:HD21	41	0.19
(1,2070)	1:A:38:ILE:HG21	1:A:41:LEU:HD22	41	0.19
(1,2070)	1:A:38:ILE:HG21	1:A:41:LEU:HD23	41	0.19
(1,2070)	1:A:38:ILE:HG22	1:A:41:LEU:HD11	41	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2070)	1:A:38:ILE:HG22	1:A:41:LEU:HD12	41	0.19
(1,2070)	1:A:38:ILE:HG22	1:A:41:LEU:HD13	41	0.19
(1,2070)	1:A:38:ILE:HG22	1:A:41:LEU:HD21	41	0.19
(1,2070)	1:A:38:ILE:HG22	1:A:41:LEU:HD22	41	0.19
(1,2070)	1:A:38:ILE:HG22	1:A:41:LEU:HD23	41	0.19
(1,2070)	1:A:38:ILE:HG23	1:A:41:LEU:HD11	41	0.19
(1,2070)	1:A:38:ILE:HG23	1:A:41:LEU:HD12	41	0.19
(1,2070)	1:A:38:ILE:HG23	1:A:41:LEU:HD13	41	0.19
(1,2070)	1:A:38:ILE:HG23	1:A:41:LEU:HD21	41	0.19
(1,2070)	1:A:38:ILE:HG23	1:A:41:LEU:HD22	41	0.19
(1,2070)	1:A:38:ILE:HG23	1:A:41:LEU:HD23	41	0.19
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	24	0.19
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	24	0.19
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD11	43	0.19
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD12	43	0.19
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD13	43	0.19
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD21	43	0.19
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD22	43	0.19
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD23	43	0.19
(1,1758)	2:B:153:SER:H	2:B:154:VAL:H	28	0.19
(1,1733)	2:B:146:THR:HA	2:B:147:GLU:H	14	0.19
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD11	36	0.19
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD12	36	0.19
(1,1699)	2:B:141:LEU:H	2:B:142:LEU:HD13	36	0.19
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	26	0.19
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	26	0.19
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	26	0.19
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	29	0.19
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	29	0.19
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	29	0.19
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	29	0.19
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	29	0.19
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	29	0.19
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	9	0.19
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	9	0.19
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	9	0.19
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	9	0.19
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	9	0.19
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	9	0.19
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	9	0.19
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	9	0.19
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	9	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:A:11:LEU:HD11	1:A:46:TYR:HE1	44	0.19
(1,133)	1:A:11:LEU:HD11	1:A:46:TYR:HE2	44	0.19
(1,133)	1:A:11:LEU:HD12	1:A:46:TYR:HE1	44	0.19
(1,133)	1:A:11:LEU:HD12	1:A:46:TYR:HE2	44	0.19
(1,133)	1:A:11:LEU:HD13	1:A:46:TYR:HE1	44	0.19
(1,133)	1:A:11:LEU:HD13	1:A:46:TYR:HE2	44	0.19
(1,1229)	2:B:178:VAL:HA	2:B:179:ALA:H	38	0.19
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	27	0.19
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	27	0.19
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	27	0.19
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	27	0.19
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	27	0.19
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	27	0.19
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	18	0.18
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	18	0.18
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	18	0.18
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	23	0.18
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	23	0.18
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	23	0.18
(1,620)	2:B:115:ASP:HB2	2:B:117:VAL:HG11	18	0.18
(1,620)	2:B:115:ASP:HB2	2:B:117:VAL:HG12	18	0.18
(1,620)	2:B:115:ASP:HB2	2:B:117:VAL:HG13	18	0.18
(1,620)	2:B:115:ASP:HB2	2:B:117:VAL:HG21	18	0.18
(1,620)	2:B:115:ASP:HB2	2:B:117:VAL:HG22	18	0.18
(1,620)	2:B:115:ASP:HB2	2:B:117:VAL:HG23	18	0.18
(1,591)	1:A:58:LEU:HG	1:A:61:GLN:HB2	43	0.18
(1,591)	1:A:58:LEU:HG	1:A:61:GLN:HB3	43	0.18
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	9	0.18
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	9	0.18
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	9	0.18
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	9	0.18
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	9	0.18
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	9	0.18
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	20	0.18
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	20	0.18
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	20	0.18
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	20	0.18
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	20	0.18
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	20	0.18
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	34	0.18
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	34	0.18
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	34	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	34	0.18
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	34	0.18
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	34	0.18
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	43	0.18
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	43	0.18
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	43	0.18
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	43	0.18
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	43	0.18
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	43	0.18
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD21	42	0.18
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD22	42	0.18
(1,455)	1:A:37:LEU:HA	1:A:41:LEU:HD23	42	0.18
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD11	25	0.18
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD12	25	0.18
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD13	25	0.18
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD11	25	0.18
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD12	25	0.18
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD13	25	0.18
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	33	0.18
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	33	0.18
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	14	0.18
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	14	0.18
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	5	0.18
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	5	0.18
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	5	0.18
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	5	0.18
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	5	0.18
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	5	0.18
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	16	0.18
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	16	0.18
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	16	0.18
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	16	0.18
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	16	0.18
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	16	0.18
(1,2393)	2:B:173:LEU:HD11	2:B:175:HIS:HB2	43	0.18
(1,2393)	2:B:173:LEU:HD12	2:B:175:HIS:HB2	43	0.18
(1,2393)	2:B:173:LEU:HD13	2:B:175:HIS:HB2	43	0.18
(1,2393)	2:B:173:LEU:HD21	2:B:175:HIS:HB2	43	0.18
(1,2393)	2:B:173:LEU:HD22	2:B:175:HIS:HB2	43	0.18
(1,2393)	2:B:173:LEU:HD23	2:B:175:HIS:HB2	43	0.18
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG2	23	0.18
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG3	23	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG2	23	0.18
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG3	23	0.18
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG2	23	0.18
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG3	23	0.18
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG2	23	0.18
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG3	23	0.18
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG2	23	0.18
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG3	23	0.18
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG2	23	0.18
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG3	23	0.18
(1,2304)	2:B:152:LEU:HD11	2:B:153:SER:H	28	0.18
(1,2304)	2:B:152:LEU:HD12	2:B:153:SER:H	28	0.18
(1,2304)	2:B:152:LEU:HD13	2:B:153:SER:H	28	0.18
(1,2304)	2:B:152:LEU:HD21	2:B:153:SER:H	28	0.18
(1,2304)	2:B:152:LEU:HD22	2:B:153:SER:H	28	0.18
(1,2304)	2:B:152:LEU:HD23	2:B:153:SER:H	28	0.18
(1,2296)	2:B:150:GLY:H	2:B:151:GLU:HB2	19	0.18
(1,2296)	2:B:150:GLY:H	2:B:151:GLU:HB3	19	0.18
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB2	35	0.18
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB3	35	0.18
(1,2220)	1:A:58:LEU:HD11	1:A:62:GLN:HE21	30	0.18
(1,2220)	1:A:58:LEU:HD11	1:A:62:GLN:HE22	30	0.18
(1,2220)	1:A:58:LEU:HD12	1:A:62:GLN:HE21	30	0.18
(1,2220)	1:A:58:LEU:HD12	1:A:62:GLN:HE22	30	0.18
(1,2220)	1:A:58:LEU:HD13	1:A:62:GLN:HE21	30	0.18
(1,2220)	1:A:58:LEU:HD13	1:A:62:GLN:HE22	30	0.18
(1,2220)	1:A:58:LEU:HD21	1:A:62:GLN:HE21	30	0.18
(1,2220)	1:A:58:LEU:HD21	1:A:62:GLN:HE22	30	0.18
(1,2220)	1:A:58:LEU:HD22	1:A:62:GLN:HE21	30	0.18
(1,2220)	1:A:58:LEU:HD22	1:A:62:GLN:HE22	30	0.18
(1,2220)	1:A:58:LEU:HD23	1:A:62:GLN:HE21	30	0.18
(1,2220)	1:A:58:LEU:HD23	1:A:62:GLN:HE22	30	0.18
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	14	0.18
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	14	0.18
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	14	0.18
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	14	0.18
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	14	0.18
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	14	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	1	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	1	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	1	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	1	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	1	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	2	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	2	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	2	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	2	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	2	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	2	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD11	17	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD12	17	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD13	17	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD21	17	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD22	17	0.18
(1,2097)	1:A:41:LEU:HG	2:B:168:LEU:HD23	17	0.18
(1,2027)	1:A:31:TYR:HB2	1:A:32:GLU:HB2	33	0.18
(1,2027)	1:A:31:TYR:HB2	1:A:32:GLU:HB3	33	0.18
(1,2027)	1:A:31:TYR:HB3	1:A:32:GLU:HB2	33	0.18
(1,2027)	1:A:31:TYR:HB3	1:A:32:GLU:HB3	33	0.18
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	11	0.18
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	11	0.18
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	16	0.18
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	16	0.18
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	16	0.18
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	16	0.18
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	16	0.18
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	16	0.18
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD11	23	0.18
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD12	23	0.18
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD13	23	0.18
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD21	23	0.18
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD22	23	0.18
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD23	23	0.18
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD11	23	0.18
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD12	23	0.18
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD13	23	0.18
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD21	23	0.18
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD22	23	0.18
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD23	23	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	8	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	8	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	8	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	8	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	8	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	8	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	8	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	8	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	8	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	8	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	8	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	15	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	15	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	15	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	15	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	15	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	15	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	15	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	15	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	15	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	15	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	15	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	15	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	28	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	28	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	28	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	28	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	28	0.18
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	28	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	28	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	28	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	28	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	28	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	28	0.18
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	28	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	13	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	13	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	13	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	13	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	13	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	13	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	19	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	19	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	19	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	19	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	19	0.18
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	19	0.18
(1,1733)	2:B:146:THR:HA	2:B:147:GLU:H	45	0.18
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	32	0.18
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	32	0.18
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	32	0.18
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	36	0.18
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	36	0.18
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	36	0.18
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD1	39	0.18
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD2	39	0.18
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD1	39	0.18
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD2	39	0.18
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD1	39	0.18
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD2	39	0.18
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	45	0.18
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	45	0.18
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	45	0.18
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	45	0.18
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	45	0.18
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	45	0.18
(1,1627)	1:A:68:GLN:H	1:A:69:GLN:H	44	0.18
(1,1520)	1:A:19:PHE:HZ	1:A:46:TYR:H	45	0.18
(1,1397)	1:A:24:ALA:H	1:A:28:PRO:HA	45	0.18
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	10	0.17
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	10	0.17
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	10	0.17
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB1	44	0.17
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB2	44	0.17
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB3	44	0.17
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB1	44	0.17
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB2	44	0.17
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB3	44	0.17
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB1	44	0.17
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB2	44	0.17
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB3	44	0.17
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	37	0.17
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	37	0.17
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB2	45	0.17
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB3	45	0.17
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB2	45	0.17
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB3	45	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	26	0.17
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	26	0.17
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	26	0.17
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	26	0.17
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	26	0.17
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	26	0.17
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	19	0.17
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	19	0.17
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	19	0.17
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	19	0.17
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	19	0.17
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	19	0.17
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	25	0.17
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	25	0.17
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	25	0.17
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	25	0.17
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	25	0.17
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	25	0.17
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	38	0.17
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	38	0.17
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	38	0.17
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	38	0.17
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	38	0.17
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	38	0.17
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	37	0.17
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	37	0.17
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	37	0.17
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	41	0.17
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	41	0.17
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	41	0.17
(1,497)	1:A:46:TYR:HE1	1:A:50:MET:HE1	44	0.17
(1,497)	1:A:46:TYR:HE1	1:A:50:MET:HE2	44	0.17
(1,497)	1:A:46:TYR:HE1	1:A:50:MET:HE3	44	0.17
(1,497)	1:A:46:TYR:HE2	1:A:50:MET:HE1	44	0.17
(1,497)	1:A:46:TYR:HE2	1:A:50:MET:HE2	44	0.17
(1,497)	1:A:46:TYR:HE2	1:A:50:MET:HE3	44	0.17
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	45	0.17
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	45	0.17
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	45	0.17
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	45	0.17
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	45	0.17
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	45	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD11	44	0.17
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD12	44	0.17
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD13	44	0.17
(1,2329)	2:B:158:GLU:HG2	2:B:160:ALA:H	41	0.17
(1,2329)	2:B:158:GLU:HG3	2:B:160:ALA:H	41	0.17
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB2	25	0.17
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB3	25	0.17
(1,2220)	1:A:58:LEU:HD11	1:A:62:GLN:HE21	37	0.17
(1,2220)	1:A:58:LEU:HD11	1:A:62:GLN:HE22	37	0.17
(1,2220)	1:A:58:LEU:HD12	1:A:62:GLN:HE21	37	0.17
(1,2220)	1:A:58:LEU:HD12	1:A:62:GLN:HE22	37	0.17
(1,2220)	1:A:58:LEU:HD13	1:A:62:GLN:HE21	37	0.17
(1,2220)	1:A:58:LEU:HD13	1:A:62:GLN:HE22	37	0.17
(1,2220)	1:A:58:LEU:HD21	1:A:62:GLN:HE21	37	0.17
(1,2220)	1:A:58:LEU:HD21	1:A:62:GLN:HE22	37	0.17
(1,2220)	1:A:58:LEU:HD22	1:A:62:GLN:HE21	37	0.17
(1,2220)	1:A:58:LEU:HD22	1:A:62:GLN:HE22	37	0.17
(1,2220)	1:A:58:LEU:HD23	1:A:62:GLN:HE21	37	0.17
(1,2220)	1:A:58:LEU:HD23	1:A:62:GLN:HE22	37	0.17
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	33	0.17
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	33	0.17
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	33	0.17
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	33	0.17
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	33	0.17
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	33	0.17
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	36	0.17
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	36	0.17
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	36	0.17
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	36	0.17
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	36	0.17
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	36	0.17
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	39	0.17
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	39	0.17
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	39	0.17
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	39	0.17
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	39	0.17
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	39	0.17
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	7	0.17
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	7	0.17
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	7	0.17
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	7	0.17
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	7	0.17
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD11	25	0.17
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD12	25	0.17
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD13	25	0.17
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD21	25	0.17
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD22	25	0.17
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD23	25	0.17
(1,2165)	1:A:52:GLN:HA	2:B:159:VAL:HG11	43	0.17
(1,2165)	1:A:52:GLN:HA	2:B:159:VAL:HG12	43	0.17
(1,2165)	1:A:52:GLN:HA	2:B:159:VAL:HG13	43	0.17
(1,2165)	1:A:52:GLN:HA	2:B:159:VAL:HG21	43	0.17
(1,2165)	1:A:52:GLN:HA	2:B:159:VAL:HG22	43	0.17
(1,2165)	1:A:52:GLN:HA	2:B:159:VAL:HG23	43	0.17
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	30	0.17
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	30	0.17
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	30	0.17
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	30	0.17
(1,2090)	1:A:41:LEU:H	1:A:44:GLN:HG2	44	0.17
(1,2090)	1:A:41:LEU:H	1:A:44:GLN:HG3	44	0.17
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	44	0.17
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	44	0.17
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD11	41	0.17
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD12	41	0.17
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD13	41	0.17
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD21	41	0.17
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD22	41	0.17
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD23	41	0.17
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	12	0.17
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	12	0.17
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	12	0.17
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	12	0.17
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	12	0.17
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	12	0.17
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	12	0.17
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	12	0.17
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	12	0.17
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	12	0.17
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	12	0.17
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	12	0.17
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	45	0.17
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	45	0.17
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	45	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	17	0.17
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	17	0.17
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	17	0.17
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	17	0.17
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	17	0.17
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	17	0.17
(1,1733)	2:B:146:THR:HA	2:B:147:GLU:H	42	0.17
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	3	0.17
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	3	0.17
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	3	0.17
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	25	0.17
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	25	0.17
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	25	0.17
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	9	0.17
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	9	0.17
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	9	0.17
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	9	0.17
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	9	0.17
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	9	0.17
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	41	0.17
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	41	0.17
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	41	0.17
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	41	0.17
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	41	0.17
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	41	0.17
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	41	0.17
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	41	0.17
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	41	0.17
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	45	0.17
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	45	0.17
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	4	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	4	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	4	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	13	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	13	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	13	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	25	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	25	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	25	0.16
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	11	0.16
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	11	0.16
(1,788)	1:A:49:TYR:HE1	1:A:53:LEU:HB3	45	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,788)	1:A:49:TYR:HE2	1:A:53:LEU:HB3	45	0.16
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	22	0.16
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	39	0.16
(1,594)	1:A:58:LEU:HG	1:A:59:ALA:H	41	0.16
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	21	0.16
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	21	0.16
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	21	0.16
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	21	0.16
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	21	0.16
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	21	0.16
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	35	0.16
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	35	0.16
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	35	0.16
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	35	0.16
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	35	0.16
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	35	0.16
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	37	0.16
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	37	0.16
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	37	0.16
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	37	0.16
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	37	0.16
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	37	0.16
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	22	0.16
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	22	0.16
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	22	0.16
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	22	0.16
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	22	0.16
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	22	0.16
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	38	0.16
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	38	0.16
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	38	0.16
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	40	0.16
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	40	0.16
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	40	0.16
(1,372)	1:A:27:TYR:HE1	1:A:37:LEU:HD21	12	0.16
(1,372)	1:A:27:TYR:HE1	1:A:37:LEU:HD22	12	0.16
(1,372)	1:A:27:TYR:HE1	1:A:37:LEU:HD23	12	0.16
(1,372)	1:A:27:TYR:HE2	1:A:37:LEU:HD21	12	0.16
(1,372)	1:A:27:TYR:HE2	1:A:37:LEU:HD22	12	0.16
(1,372)	1:A:27:TYR:HE2	1:A:37:LEU:HD23	12	0.16
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD11	44	0.16
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD12	44	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,350)	1:A:33:GLN:HE22	1:A:36:ILE:HD13	44	0.16
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD11	37	0.16
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD12	37	0.16
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD13	37	0.16
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG21	39	0.16
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG22	39	0.16
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG23	39	0.16
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG21	39	0.16
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG22	39	0.16
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG23	39	0.16
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	22	0.16
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	22	0.16
(1,2401)	2:B:174:LEU:HD11	2:B:175:HIS:HD2	30	0.16
(1,2401)	2:B:174:LEU:HD12	2:B:175:HIS:HD2	30	0.16
(1,2401)	2:B:174:LEU:HD13	2:B:175:HIS:HD2	30	0.16
(1,2401)	2:B:174:LEU:HD21	2:B:175:HIS:HD2	30	0.16
(1,2401)	2:B:174:LEU:HD22	2:B:175:HIS:HD2	30	0.16
(1,2401)	2:B:174:LEU:HD23	2:B:175:HIS:HD2	30	0.16
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD2	19	0.16
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD3	19	0.16
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD2	19	0.16
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD3	19	0.16
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD2	19	0.16
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD3	19	0.16
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD2	38	0.16
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD3	38	0.16
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD2	38	0.16
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD3	38	0.16
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD2	38	0.16
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD3	38	0.16
(1,227)	1:A:17:VAL:HG11	1:A:20:GLN:HE21	43	0.16
(1,227)	1:A:17:VAL:HG12	1:A:20:GLN:HE21	43	0.16
(1,227)	1:A:17:VAL:HG13	1:A:20:GLN:HE21	43	0.16
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	23	0.16
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	23	0.16
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	23	0.16
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB2	41	0.16
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB3	41	0.16
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	37	0.16
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	37	0.16
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	37	0.16
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	37	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	37	0.16
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	37	0.16
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	35	0.16
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	35	0.16
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	35	0.16
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	35	0.16
(1,2089)	1:A:41:LEU:H	1:A:44:GLN:HB2	42	0.16
(1,2089)	1:A:41:LEU:H	1:A:44:GLN:HB3	42	0.16
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG21	41	0.16
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG22	41	0.16
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG23	41	0.16
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	18	0.16
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	18	0.16
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	13	0.16
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	13	0.16
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	13	0.16
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	13	0.16
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	13	0.16
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	13	0.16
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	13	0.16
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	13	0.16
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	13	0.16
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	13	0.16
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	13	0.16
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	13	0.16
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	31	0.16
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	31	0.16
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	31	0.16
(1,1828)	2:B:170:LYS:H	2:B:172:LYS:HB2	43	0.16
(1,1828)	2:B:170:LYS:H	2:B:172:LYS:HB3	43	0.16
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG11	11	0.16
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG12	11	0.16
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG13	11	0.16
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG21	11	0.16
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG22	11	0.16
(1,1793)	2:B:168:LEU:H	2:B:171:VAL:HG23	11	0.16
(1,1755)	2:B:152:LEU:HD21	2:B:153:SER:H	37	0.16
(1,1755)	2:B:152:LEU:HD22	2:B:153:SER:H	37	0.16
(1,1755)	2:B:152:LEU:HD23	2:B:153:SER:H	37	0.16
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	4	0.16
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	4	0.16
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1682)	2:B:123:LEU:HD11	2:B:124:LYS:H	19	0.16
(1,1682)	2:B:123:LEU:HD12	2:B:124:LYS:H	19	0.16
(1,1682)	2:B:123:LEU:HD13	2:B:124:LYS:H	19	0.16
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	27	0.16
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	27	0.16
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	27	0.16
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	29	0.16
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	29	0.16
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	29	0.16
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD1	40	0.16
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD2	40	0.16
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD1	40	0.16
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD2	40	0.16
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD1	40	0.16
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD2	40	0.16
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	38	0.16
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	38	0.16
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	38	0.16
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	38	0.16
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	38	0.16
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	38	0.16
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	40	0.16
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	40	0.16
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	40	0.16
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	40	0.16
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	40	0.16
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	40	0.16
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	4	0.16
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	4	0.16
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	4	0.16
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	4	0.16
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	4	0.16
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	4	0.16
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	8	0.16
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	8	0.16
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	8	0.16
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	8	0.16
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	8	0.16
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	8	0.16
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	19	0.16
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	19	0.16
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	19	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	19	0.16
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	19	0.16
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	19	0.16
(1,1520)	1:A:19:PHE:HZ	1:A:46:TYR:H	44	0.16
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	39	0.16
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	39	0.16
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	39	0.16
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	39	0.16
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	39	0.16
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	39	0.16
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	39	0.16
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	39	0.16
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	39	0.16
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	43	0.16
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	43	0.16
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	43	0.16
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	43	0.16
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	43	0.16
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	43	0.16
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	43	0.16
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	43	0.16
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	43	0.16
(1,1343)	1:A:11:LEU:HD21	1:A:14:GLN:H	45	0.16
(1,1343)	1:A:11:LEU:HD22	1:A:14:GLN:H	45	0.16
(1,1343)	1:A:11:LEU:HD23	1:A:14:GLN:H	45	0.16
(1,1229)	2:B:178:VAL:HA	2:B:179:ALA:H	40	0.16
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	21	0.16
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	21	0.16
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	21	0.16
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	21	0.16
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	21	0.16
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	21	0.16
(1,1007)	1:A:26:GLN:HG2	1:A:27:TYR:HE1	44	0.16
(1,1007)	1:A:26:GLN:HG2	1:A:27:TYR:HE2	44	0.16
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	9	0.15
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	9	0.15
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	9	0.15
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	16	0.15
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	16	0.15
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	16	0.15
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	21	0.15
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	21	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	21	0.15
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	27	0.15
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	27	0.15
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	36	0.15
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	36	0.15
(1,788)	1:A:49:TYR:HE1	1:A:53:LEU:HB3	35	0.15
(1,788)	1:A:49:TYR:HE2	1:A:53:LEU:HB3	35	0.15
(1,751)	1:A:19:PHE:HE1	2:B:168:LEU:HG	41	0.15
(1,751)	1:A:19:PHE:HE2	2:B:168:LEU:HG	41	0.15
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG21	37	0.15
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG22	37	0.15
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG23	37	0.15
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG11	41	0.15
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG12	41	0.15
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG13	41	0.15
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG21	41	0.15
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG22	41	0.15
(1,621)	2:B:115:ASP:HB3	2:B:117:VAL:HG23	41	0.15
(1,57)	1:A:36:ILE:HA	1:A:39:ARG:HA	40	0.15
(1,568)	1:A:53:LEU:HD11	1:A:56:VAL:HA	45	0.15
(1,568)	1:A:53:LEU:HD12	1:A:56:VAL:HA	45	0.15
(1,568)	1:A:53:LEU:HD13	1:A:56:VAL:HA	45	0.15
(1,568)	1:A:53:LEU:HD21	1:A:56:VAL:HA	45	0.15
(1,568)	1:A:53:LEU:HD22	1:A:56:VAL:HA	45	0.15
(1,568)	1:A:53:LEU:HD23	1:A:56:VAL:HA	45	0.15
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	11	0.15
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	11	0.15
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	11	0.15
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	11	0.15
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	11	0.15
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	11	0.15
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	42	0.15
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	42	0.15
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	42	0.15
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	42	0.15
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	42	0.15
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	42	0.15
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	41	0.15
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	41	0.15
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	41	0.15
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	41	0.15
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	41	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	41	0.15
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	33	0.15
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	33	0.15
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	33	0.15
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	41	0.15
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	41	0.15
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	41	0.15
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	41	0.15
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	41	0.15
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	41	0.15
(1,422)	1:A:39:ARG:HB2	1:A:40:GLN:H	40	0.15
(1,422)	1:A:39:ARG:HB3	1:A:40:GLN:H	40	0.15
(1,333)	1:A:36:ILE:HG21	1:A:40:GLN:HE21	39	0.15
(1,333)	1:A:36:ILE:HG22	1:A:40:GLN:HE21	39	0.15
(1,333)	1:A:36:ILE:HG23	1:A:40:GLN:HE21	39	0.15
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG21	25	0.15
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG22	25	0.15
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG23	25	0.15
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG21	25	0.15
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG22	25	0.15
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG23	25	0.15
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	37	0.15
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	37	0.15
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	43	0.15
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	43	0.15
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	22	0.15
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	22	0.15
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	22	0.15
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	22	0.15
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	22	0.15
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	22	0.15
(1,2393)	2:B:173:LEU:HD11	2:B:175:HIS:HB2	36	0.15
(1,2393)	2:B:173:LEU:HD12	2:B:175:HIS:HB2	36	0.15
(1,2393)	2:B:173:LEU:HD13	2:B:175:HIS:HB2	36	0.15
(1,2393)	2:B:173:LEU:HD21	2:B:175:HIS:HB2	36	0.15
(1,2393)	2:B:173:LEU:HD22	2:B:175:HIS:HB2	36	0.15
(1,2393)	2:B:173:LEU:HD23	2:B:175:HIS:HB2	36	0.15
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG2	4	0.15
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG3	4	0.15
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG2	4	0.15
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG3	4	0.15
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG2	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG3	4	0.15
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG2	4	0.15
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG3	4	0.15
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG2	4	0.15
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG3	4	0.15
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG2	4	0.15
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG3	4	0.15
(1,2318)	2:B:156:ASP:HB2	2:B:159:VAL:HB	44	0.15
(1,2318)	2:B:156:ASP:HB3	2:B:159:VAL:HB	44	0.15
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD2	45	0.15
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD3	45	0.15
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD2	45	0.15
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD3	45	0.15
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD2	45	0.15
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD3	45	0.15
(1,2261)	2:B:119:GLU:H	2:B:119:GLU:HB2	45	0.15
(1,2261)	2:B:119:GLU:H	2:B:119:GLU:HB3	45	0.15
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	37	0.15
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	37	0.15
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	37	0.15
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	24	0.15
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	24	0.15
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	24	0.15
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	24	0.15
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	24	0.15
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	24	0.15
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	34	0.15
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	34	0.15
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	34	0.15
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	34	0.15
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	34	0.15
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	34	0.15
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	34	0.15
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	34	0.15
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	34	0.15
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	34	0.15
(1,213)	1:A:16:ALA:HB1	1:A:20:GLN:HG3	44	0.15
(1,213)	1:A:16:ALA:HB2	1:A:20:GLN:HG3	44	0.15
(1,213)	1:A:16:ALA:HB3	1:A:20:GLN:HG3	44	0.15
(1,1966)	1:A:22:TYR:HD1	1:A:38:ILE:HG12	36	0.15
(1,1966)	1:A:22:TYR:HD1	1:A:38:ILE:HG13	36	0.15
(1,1966)	1:A:22:TYR:HD2	1:A:38:ILE:HG12	36	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1966)	1:A:22:TYR:HD2	1:A:38:ILE:HG13	36	0.15
(1,1904)	1:A:10:ALA:HB1	2:B:155:ILE:HG12	20	0.15
(1,1904)	1:A:10:ALA:HB1	2:B:155:ILE:HG13	20	0.15
(1,1904)	1:A:10:ALA:HB2	2:B:155:ILE:HG12	20	0.15
(1,1904)	1:A:10:ALA:HB2	2:B:155:ILE:HG13	20	0.15
(1,1904)	1:A:10:ALA:HB3	2:B:155:ILE:HG12	20	0.15
(1,1904)	1:A:10:ALA:HB3	2:B:155:ILE:HG13	20	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	14	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	14	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	14	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	21	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	21	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	21	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	34	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	34	0.15
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	34	0.15
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	2	0.15
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	2	0.15
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	2	0.15
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	2	0.15
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	2	0.15
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	2	0.15
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	10	0.15
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	10	0.15
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	10	0.15
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	10	0.15
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	10	0.15
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	10	0.15
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	21	0.15
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	21	0.15
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	21	0.15
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	21	0.15
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	21	0.15
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	21	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	16	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	16	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	16	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	16	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	16	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	16	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	16	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	16	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	24	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	24	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	24	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	24	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	24	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	24	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	24	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	24	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	24	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	28	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	28	0.15
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	28	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	28	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	28	0.15
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	28	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	28	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	28	0.15
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	28	0.15
(1,1323)	1:A:11:LEU:HD11	1:A:12:ASN:H	33	0.15
(1,1323)	1:A:11:LEU:HD12	1:A:12:ASN:H	33	0.15
(1,1323)	1:A:11:LEU:HD13	1:A:12:ASN:H	33	0.15
(1,1213)	2:B:124:LYS:H	2:B:124:LYS:HG2	34	0.15
(1,1213)	2:B:124:LYS:H	2:B:124:LYS:HG3	34	0.15
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG11	27	0.15
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG12	27	0.15
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG13	27	0.15
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG21	27	0.15
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG22	27	0.15
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG23	27	0.15
(1,92)	1:A:7:ILE:HD11	1:A:46:TYR:HE1	43	0.14
(1,92)	1:A:7:ILE:HD11	1:A:46:TYR:HE2	43	0.14
(1,92)	1:A:7:ILE:HD12	1:A:46:TYR:HE1	43	0.14
(1,92)	1:A:7:ILE:HD12	1:A:46:TYR:HE2	43	0.14
(1,92)	1:A:7:ILE:HD13	1:A:46:TYR:HE1	43	0.14
(1,92)	1:A:7:ILE:HD13	1:A:46:TYR:HE2	43	0.14
(1,905)	2:B:170:LYS:HA	2:B:170:LYS:HD2	30	0.14
(1,905)	2:B:170:LYS:HA	2:B:170:LYS:HD3	30	0.14
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	20	0.14
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	20	0.14
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	20	0.14
(1,877)	1:A:35:GLN:HG3	1:A:36:ILE:H	40	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,859)	1:A:4:LYS:HD2	1:A:5:GLN:HG2	39	0.14
(1,859)	1:A:4:LYS:HD2	1:A:5:GLN:HG3	39	0.14
(1,859)	1:A:4:LYS:HD3	1:A:5:GLN:HG2	39	0.14
(1,859)	1:A:4:LYS:HD3	1:A:5:GLN:HG3	39	0.14
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	24	0.14
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	24	0.14
(1,797)	1:A:23:ALA:HA	1:A:27:TYR:HE1	44	0.14
(1,797)	1:A:23:ALA:HA	1:A:27:TYR:HE2	44	0.14
(1,788)	1:A:49:TYR:HE1	1:A:53:LEU:HB3	26	0.14
(1,788)	1:A:49:TYR:HE2	1:A:53:LEU:HB3	26	0.14
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	26	0.14
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	32	0.14
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG21	43	0.14
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG22	43	0.14
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG23	43	0.14
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	40	0.14
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	40	0.14
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	40	0.14
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB1	42	0.14
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB2	42	0.14
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB3	42	0.14
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	8	0.14
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	8	0.14
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	8	0.14
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	8	0.14
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	8	0.14
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	8	0.14
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	3	0.14
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	3	0.14
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	3	0.14
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	3	0.14
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	3	0.14
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	3	0.14
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	37	0.14
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	37	0.14
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	37	0.14
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	37	0.14
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	37	0.14
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	37	0.14
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	26	0.14
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	26	0.14
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	26	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	30	0.14
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	30	0.14
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	30	0.14
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	23	0.14
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	23	0.14
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	23	0.14
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	23	0.14
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	23	0.14
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	23	0.14
(1,422)	1:A:39:ARG:HB2	1:A:40:GLN:H	45	0.14
(1,422)	1:A:39:ARG:HB3	1:A:40:GLN:H	45	0.14
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD11	44	0.14
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD12	44	0.14
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD13	44	0.14
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG21	37	0.14
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG22	37	0.14
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG23	37	0.14
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG21	22	0.14
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG22	22	0.14
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG23	22	0.14
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG21	22	0.14
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG22	22	0.14
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG23	22	0.14
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	36	0.14
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	36	0.14
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	42	0.14
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	42	0.14
(1,2318)	2:B:156:ASP:HB2	2:B:159:VAL:HB	38	0.14
(1,2318)	2:B:156:ASP:HB3	2:B:159:VAL:HB	38	0.14
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD2	42	0.14
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD3	42	0.14
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD2	42	0.14
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD3	42	0.14
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD2	42	0.14
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD3	42	0.14
(1,227)	1:A:17:VAL:HG11	1:A:20:GLN:HE21	38	0.14
(1,227)	1:A:17:VAL:HG12	1:A:20:GLN:HE21	38	0.14
(1,227)	1:A:17:VAL:HG13	1:A:20:GLN:HE21	38	0.14
(1,226)	1:A:55:GLN:H	1:A:56:VAL:HG21	42	0.14
(1,226)	1:A:55:GLN:H	1:A:56:VAL:HG22	42	0.14
(1,226)	1:A:55:GLN:H	1:A:56:VAL:HG23	42	0.14
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	33	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	33	0.14
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	33	0.14
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB2	22	0.14
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB3	22	0.14
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	13	0.14
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	13	0.14
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	13	0.14
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	13	0.14
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	13	0.14
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	13	0.14
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	28	0.14
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	28	0.14
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	28	0.14
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	28	0.14
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	28	0.14
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	28	0.14
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	29	0.14
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	29	0.14
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	29	0.14
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	29	0.14
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	29	0.14
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	29	0.14
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	35	0.14
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	35	0.14
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	35	0.14
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	35	0.14
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	35	0.14
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	35	0.14
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG11	36	0.14
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG12	36	0.14
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG13	36	0.14
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG21	36	0.14
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG22	36	0.14
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG23	36	0.14
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	10	0.14
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	10	0.14
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	10	0.14
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	10	0.14
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	10	0.14
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	10	0.14
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB1	38	0.14
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB2	38	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB3	38	0.14
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG21	42	0.14
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG22	42	0.14
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG23	42	0.14
(1,1997)	1:A:26:GLN:HB3	1:A:37:LEU:HD11	43	0.14
(1,1997)	1:A:26:GLN:HB3	1:A:37:LEU:HD12	43	0.14
(1,1997)	1:A:26:GLN:HB3	1:A:37:LEU:HD13	43	0.14
(1,1997)	1:A:26:GLN:HB3	1:A:37:LEU:HD21	43	0.14
(1,1997)	1:A:26:GLN:HB3	1:A:37:LEU:HD22	43	0.14
(1,1997)	1:A:26:GLN:HB3	1:A:37:LEU:HD23	43	0.14
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	5	0.14
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	5	0.14
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	5	0.14
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	5	0.14
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	5	0.14
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	5	0.14
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	15	0.14
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	15	0.14
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	15	0.14
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	15	0.14
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	15	0.14
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	15	0.14
(1,1957)	1:A:22:TYR:H	1:A:41:LEU:HD11	35	0.14
(1,1957)	1:A:22:TYR:H	1:A:41:LEU:HD12	35	0.14
(1,1957)	1:A:22:TYR:H	1:A:41:LEU:HD13	35	0.14
(1,1957)	1:A:22:TYR:H	1:A:41:LEU:HD21	35	0.14
(1,1957)	1:A:22:TYR:H	1:A:41:LEU:HD22	35	0.14
(1,1957)	1:A:22:TYR:H	1:A:41:LEU:HD23	35	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD11	40	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD12	40	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD13	40	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD21	40	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD22	40	0.14
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD23	40	0.14
(1,1904)	1:A:10:ALA:HB1	2:B:155:ILE:HG12	21	0.14
(1,1904)	1:A:10:ALA:HB1	2:B:155:ILE:HG13	21	0.14
(1,1904)	1:A:10:ALA:HB2	2:B:155:ILE:HG12	21	0.14
(1,1904)	1:A:10:ALA:HB2	2:B:155:ILE:HG13	21	0.14
(1,1904)	1:A:10:ALA:HB3	2:B:155:ILE:HG12	21	0.14
(1,1904)	1:A:10:ALA:HB3	2:B:155:ILE:HG13	21	0.14
(1,1888)	1:A:7:ILE:HA	2:B:154:VAL:HG11	43	0.14
(1,1888)	1:A:7:ILE:HA	2:B:154:VAL:HG12	43	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1888)	1:A:7:ILE:HA	2:B:154:VAL:HG13	43	0.14
(1,1888)	1:A:7:ILE:HA	2:B:154:VAL:HG21	43	0.14
(1,1888)	1:A:7:ILE:HA	2:B:154:VAL:HG22	43	0.14
(1,1888)	1:A:7:ILE:HA	2:B:154:VAL:HG23	43	0.14
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	27	0.14
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	27	0.14
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	27	0.14
(1,1734)	2:B:146:THR:H	2:B:147:GLU:H	41	0.14
(1,1706)	2:B:141:LEU:HA	2:B:142:LEU:H	36	0.14
(1,1675)	2:B:118:VAL:HA	2:B:119:GLU:H	44	0.14
(1,1653)	2:B:111:VAL:H	2:B:112:ALA:H	14	0.14
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	16	0.14
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	16	0.14
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	16	0.14
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	16	0.14
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	16	0.14
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	16	0.14
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	17	0.14
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	17	0.14
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	17	0.14
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	17	0.14
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	17	0.14
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	17	0.14
(1,1520)	1:A:19:PHE:HZ	1:A:46:TYR:H	41	0.14
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	26	0.14
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	26	0.14
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	26	0.14
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	26	0.14
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	26	0.14
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	26	0.14
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	26	0.14
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	26	0.14
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	26	0.14
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	32	0.14
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	32	0.14
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	32	0.14
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	32	0.14
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	32	0.14
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	32	0.14
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	32	0.14
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	32	0.14
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	32	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	38	0.14
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	38	0.14
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	40	0.14
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	40	0.14
(1,1350)	1:A:15:THR:H	1:A:16:ALA:HB1	32	0.14
(1,1350)	1:A:15:THR:H	1:A:16:ALA:HB2	32	0.14
(1,1350)	1:A:15:THR:H	1:A:16:ALA:HB3	32	0.14
(1,1323)	1:A:11:LEU:HD11	1:A:12:ASN:H	41	0.14
(1,1323)	1:A:11:LEU:HD12	1:A:12:ASN:H	41	0.14
(1,1323)	1:A:11:LEU:HD13	1:A:12:ASN:H	41	0.14
(1,1223)	2:B:170:LYS:H	2:B:170:LYS:HE2	25	0.14
(1,1223)	2:B:170:LYS:H	2:B:170:LYS:HE3	25	0.14
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB1	22	0.14
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB2	22	0.14
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB3	22	0.14
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB1	22	0.14
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB2	22	0.14
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB3	22	0.14
(1,952)	1:A:27:TYR:HE1	1:A:33:GLN:HG2	43	0.13
(1,952)	1:A:27:TYR:HE1	1:A:33:GLN:HG3	43	0.13
(1,952)	1:A:27:TYR:HE2	1:A:33:GLN:HG2	43	0.13
(1,952)	1:A:27:TYR:HE2	1:A:33:GLN:HG3	43	0.13
(1,939)	1:A:52:GLN:HG2	1:A:53:LEU:H	43	0.13
(1,939)	1:A:52:GLN:HG3	1:A:53:LEU:H	43	0.13
(1,925)	2:B:151:GLU:HG2	2:B:152:LEU:H	16	0.13
(1,925)	2:B:151:GLU:HG3	2:B:152:LEU:H	16	0.13
(1,809)	1:A:22:TYR:HE1	2:B:168:LEU:HA	45	0.13
(1,809)	1:A:22:TYR:HE2	2:B:168:LEU:HA	45	0.13
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	43	0.13
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	43	0.13
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	35	0.13
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	36	0.13
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	37	0.13
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	45	0.13
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG21	35	0.13
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG22	35	0.13
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG23	35	0.13
(1,654)	2:B:154:VAL:H	2:B:154:VAL:HB	37	0.13
(1,654)	2:B:154:VAL:H	2:B:154:VAL:HB	45	0.13
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	39	0.13
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	39	0.13
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	39	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	45	0.13
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	45	0.13
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	45	0.13
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB1	45	0.13
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB2	45	0.13
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB3	45	0.13
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB2	22	0.13
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB3	22	0.13
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB2	22	0.13
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB3	22	0.13
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	7	0.13
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	7	0.13
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	7	0.13
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	7	0.13
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	7	0.13
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	7	0.13
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	12	0.13
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	12	0.13
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	12	0.13
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	12	0.13
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	12	0.13
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	12	0.13
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	25	0.13
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	25	0.13
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	25	0.13
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	25	0.13
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	25	0.13
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	25	0.13
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	14	0.13
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	14	0.13
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	14	0.13
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	14	0.13
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	14	0.13
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	14	0.13
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	39	0.13
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	39	0.13
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	39	0.13
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	39	0.13
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	39	0.13
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	39	0.13
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	44	0.13
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	44	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	44	0.13
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	44	0.13
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	44	0.13
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	44	0.13
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	14	0.13
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	14	0.13
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	14	0.13
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	14	0.13
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	14	0.13
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	14	0.13
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	44	0.13
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	44	0.13
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	44	0.13
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	44	0.13
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	44	0.13
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	44	0.13
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	35	0.13
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	35	0.13
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	35	0.13
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	25	0.13
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	25	0.13
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	25	0.13
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	25	0.13
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	25	0.13
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	25	0.13
(1,481)	1:A:46:TYR:HA	1:A:49:TYR:HA	45	0.13
(1,471)	1:A:7:ILE:HG21	1:A:46:TYR:HB3	43	0.13
(1,471)	1:A:7:ILE:HG22	1:A:46:TYR:HB3	43	0.13
(1,471)	1:A:7:ILE:HG23	1:A:46:TYR:HB3	43	0.13
(1,422)	1:A:39:ARG:HB2	1:A:40:GLN:H	24	0.13
(1,422)	1:A:39:ARG:HB3	1:A:40:GLN:H	24	0.13
(1,422)	1:A:39:ARG:HB2	1:A:40:GLN:H	30	0.13
(1,422)	1:A:39:ARG:HB3	1:A:40:GLN:H	30	0.13
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD11	44	0.13
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD12	44	0.13
(1,343)	1:A:32:GLU:HG2	1:A:36:ILE:HD13	44	0.13
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD11	44	0.13
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD12	44	0.13
(1,343)	1:A:32:GLU:HG3	1:A:36:ILE:HD13	44	0.13
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	30	0.13
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	30	0.13
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	41	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	41	0.13
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD11	41	0.13
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD12	41	0.13
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD13	41	0.13
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD21	41	0.13
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD22	41	0.13
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD23	41	0.13
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD2	23	0.13
(1,2312)	2:B:155:ILE:HD11	2:B:157:PRO:HD3	23	0.13
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD2	23	0.13
(1,2312)	2:B:155:ILE:HD12	2:B:157:PRO:HD3	23	0.13
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD2	23	0.13
(1,2312)	2:B:155:ILE:HD13	2:B:157:PRO:HD3	23	0.13
(1,227)	1:A:17:VAL:HG11	1:A:20:GLN:HE21	39	0.13
(1,227)	1:A:17:VAL:HG12	1:A:20:GLN:HE21	39	0.13
(1,227)	1:A:17:VAL:HG13	1:A:20:GLN:HE21	39	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	24	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	24	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	24	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	29	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	29	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	29	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	35	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	35	0.13
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	35	0.13
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	31	0.13
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	31	0.13
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	31	0.13
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	31	0.13
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	31	0.13
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	31	0.13
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	40	0.13
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	40	0.13
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	40	0.13
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	40	0.13
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	40	0.13
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	40	0.13
(1,2206)	1:A:58:LEU:HA	1:A:58:LEU:HD11	32	0.13
(1,2206)	1:A:58:LEU:HA	1:A:58:LEU:HD12	32	0.13
(1,2206)	1:A:58:LEU:HA	1:A:58:LEU:HD13	32	0.13
(1,2206)	1:A:58:LEU:HA	1:A:58:LEU:HD21	32	0.13
(1,2206)	1:A:58:LEU:HA	1:A:58:LEU:HD22	32	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2206)	1:A:58:LEU:HA	1:A:58:LEU:HD23	32	0.13
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	1	0.13
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	1	0.13
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	1	0.13
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	1	0.13
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	1	0.13
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	1	0.13
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	14	0.13
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	14	0.13
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	14	0.13
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	14	0.13
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	22	0.13
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	22	0.13
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	22	0.13
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	22	0.13
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	27	0.13
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	27	0.13
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	27	0.13
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	27	0.13
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	23	0.13
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	23	0.13
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	23	0.13
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	23	0.13
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	23	0.13
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	23	0.13
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	41	0.13
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	41	0.13
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	41	0.13
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	41	0.13
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	41	0.13
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	41	0.13
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG2	33	0.13
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG3	33	0.13
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG2	33	0.13
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG3	33	0.13
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG2	33	0.13
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG3	33	0.13
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG2	33	0.13
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG3	33	0.13
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG2	33	0.13
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG3	33	0.13
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG2	33	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG3	33	0.13
(1,2027)	1:A:31:TYR:HB2	1:A:32:GLU:HB2	40	0.13
(1,2027)	1:A:31:TYR:HB2	1:A:32:GLU:HB3	40	0.13
(1,2027)	1:A:31:TYR:HB3	1:A:32:GLU:HB2	40	0.13
(1,2027)	1:A:31:TYR:HB3	1:A:32:GLU:HB3	40	0.13
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	8	0.13
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	8	0.13
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	20	0.13
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	20	0.13
(1,1990)	1:A:25:GLN:HB2	1:A:26:GLN:H	30	0.13
(1,1990)	1:A:25:GLN:HB3	1:A:26:GLN:H	30	0.13
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	6	0.13
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	6	0.13
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	6	0.13
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	6	0.13
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	6	0.13
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	6	0.13
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	12	0.13
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	12	0.13
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	12	0.13
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	12	0.13
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	12	0.13
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	12	0.13
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	35	0.13
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	35	0.13
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	35	0.13
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	35	0.13
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	35	0.13
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	35	0.13
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD11	38	0.13
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD12	38	0.13
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD13	38	0.13
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD21	38	0.13
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD22	38	0.13
(1,1956)	1:A:22:TYR:H	1:A:37:LEU:HD23	38	0.13
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	38	0.13
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	38	0.13
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	38	0.13
(1,1828)	2:B:170:LYS:H	2:B:172:LYS:HB2	33	0.13
(1,1828)	2:B:170:LYS:H	2:B:172:LYS:HB3	33	0.13
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	14	0.13
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	14	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	14	0.13
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	30	0.13
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	30	0.13
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	30	0.13
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD1	31	0.13
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD2	31	0.13
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD1	31	0.13
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD2	31	0.13
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD1	31	0.13
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD2	31	0.13
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	25	0.13
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	25	0.13
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	25	0.13
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	25	0.13
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	25	0.13
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	25	0.13
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	27	0.13
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	27	0.13
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	27	0.13
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	27	0.13
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	27	0.13
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	27	0.13
(1,1646)	2:B:145:ILE:H	2:B:145:ILE:HG12	45	0.13
(1,1627)	1:A:68:GLN:H	1:A:69:GLN:H	19	0.13
(1,1627)	1:A:68:GLN:H	1:A:69:GLN:H	38	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	3	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	3	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	3	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	3	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	3	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	3	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	6	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	6	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	6	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	6	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	6	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	6	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	7	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	7	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	7	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	7	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	7	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	7	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	12	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	12	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	12	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	12	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	12	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	12	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	15	0.13
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	15	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	15	0.13
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	15	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	15	0.13
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	15	0.13
(1,1520)	1:A:19:PHE:HZ	1:A:46:TYR:H	42	0.13
(1,1487)	1:A:38:ILE:H	1:A:39:ARG:HB2	45	0.13
(1,1487)	1:A:38:ILE:H	1:A:39:ARG:HB3	45	0.13
(1,1486)	1:A:30:ASN:HD22	1:A:33:GLN:HG2	41	0.13
(1,1486)	1:A:30:ASN:HD22	1:A:33:GLN:HG3	41	0.13
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	38	0.13
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	38	0.13
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	38	0.13
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	38	0.13
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	38	0.13
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	38	0.13
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	38	0.13
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	38	0.13
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	38	0.13
(1,1478)	2:B:113:MET:H	2:B:113:MET:HE1	34	0.13
(1,1478)	2:B:113:MET:H	2:B:113:MET:HE2	34	0.13
(1,1478)	2:B:113:MET:H	2:B:113:MET:HE3	34	0.13
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	30	0.13
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	30	0.13
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	30	0.13
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	30	0.13
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	30	0.13
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	30	0.13
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	30	0.13
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	30	0.13
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	30	0.13
(1,1324)	1:A:11:LEU:HD21	1:A:12:ASN:H	45	0.13
(1,1324)	1:A:11:LEU:HD22	1:A:12:ASN:H	45	0.13
(1,1324)	1:A:11:LEU:HD23	1:A:12:ASN:H	45	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1274)	1:A:6:GLN:H	1:A:7:ILE:HD11	44	0.13
(1,1274)	1:A:6:GLN:H	1:A:7:ILE:HD12	44	0.13
(1,1274)	1:A:6:GLN:H	1:A:7:ILE:HD13	44	0.13
(1,1242)	2:B:177:GLY:H	2:B:179:ALA:H	45	0.13
(1,1210)	2:B:117:VAL:HG11	2:B:119:GLU:H	24	0.13
(1,1210)	2:B:117:VAL:HG12	2:B:119:GLU:H	24	0.13
(1,1210)	2:B:117:VAL:HG13	2:B:119:GLU:H	24	0.13
(1,1210)	2:B:117:VAL:HG21	2:B:119:GLU:H	24	0.13
(1,1210)	2:B:117:VAL:HG22	2:B:119:GLU:H	24	0.13
(1,1210)	2:B:117:VAL:HG23	2:B:119:GLU:H	24	0.13
(1,1106)	1:A:7:ILE:HD11	1:A:11:LEU:HD21	30	0.13
(1,1106)	1:A:7:ILE:HD11	1:A:11:LEU:HD22	30	0.13
(1,1106)	1:A:7:ILE:HD11	1:A:11:LEU:HD23	30	0.13
(1,1106)	1:A:7:ILE:HD12	1:A:11:LEU:HD21	30	0.13
(1,1106)	1:A:7:ILE:HD12	1:A:11:LEU:HD22	30	0.13
(1,1106)	1:A:7:ILE:HD12	1:A:11:LEU:HD23	30	0.13
(1,1106)	1:A:7:ILE:HD13	1:A:11:LEU:HD21	30	0.13
(1,1106)	1:A:7:ILE:HD13	1:A:11:LEU:HD22	30	0.13
(1,1106)	1:A:7:ILE:HD13	1:A:11:LEU:HD23	30	0.13
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD11	14	0.13
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD12	14	0.13
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD13	14	0.13
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG11	22	0.13
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG12	22	0.13
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG13	22	0.13
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG21	22	0.13
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG22	22	0.13
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG23	22	0.13
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB1	19	0.13
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB2	19	0.13
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB3	19	0.13
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB1	19	0.13
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB2	19	0.13
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB3	19	0.13
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB1	31	0.13
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB2	31	0.13
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB3	31	0.13
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB1	31	0.13
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB2	31	0.13
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB3	31	0.13
(1,932)	1:A:17:VAL:HG21	1:A:18:GLN:HG2	37	0.12
(1,932)	1:A:17:VAL:HG22	1:A:18:GLN:HG2	37	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,932)	1:A:17:VAL:HG23	1:A:18:GLN:HG2	37	0.12
(1,92)	1:A:7:ILE:HD11	1:A:46:TYR:HE1	30	0.12
(1,92)	1:A:7:ILE:HD11	1:A:46:TYR:HE2	30	0.12
(1,92)	1:A:7:ILE:HD12	1:A:46:TYR:HE1	30	0.12
(1,92)	1:A:7:ILE:HD12	1:A:46:TYR:HE2	30	0.12
(1,92)	1:A:7:ILE:HD13	1:A:46:TYR:HE1	30	0.12
(1,92)	1:A:7:ILE:HD13	1:A:46:TYR:HE2	30	0.12
(1,877)	1:A:35:GLN:HG3	1:A:36:ILE:H	41	0.12
(1,859)	1:A:4:LYS:HD2	1:A:5:GLN:HG2	35	0.12
(1,859)	1:A:4:LYS:HD2	1:A:5:GLN:HG3	35	0.12
(1,859)	1:A:4:LYS:HD3	1:A:5:GLN:HG2	35	0.12
(1,859)	1:A:4:LYS:HD3	1:A:5:GLN:HG3	35	0.12
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB1	26	0.12
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB2	26	0.12
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB3	26	0.12
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB1	26	0.12
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB2	26	0.12
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB3	26	0.12
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB1	26	0.12
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB2	26	0.12
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB3	26	0.12
(1,842)	1:A:54:TYR:HD1	1:A:58:LEU:HG	42	0.12
(1,842)	1:A:54:TYR:HD2	1:A:58:LEU:HG	42	0.12
(1,809)	1:A:22:TYR:HE1	2:B:168:LEU:HA	26	0.12
(1,809)	1:A:22:TYR:HE2	2:B:168:LEU:HA	26	0.12
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	28	0.12
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	28	0.12
(1,788)	1:A:49:TYR:HE1	1:A:53:LEU:HB3	30	0.12
(1,788)	1:A:49:TYR:HE2	1:A:53:LEU:HB3	30	0.12
(1,787)	1:A:49:TYR:HE1	2:B:159:VAL:HB	44	0.12
(1,787)	1:A:49:TYR:HE2	2:B:159:VAL:HB	44	0.12
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	42	0.12
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG21	32	0.12
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG22	32	0.12
(1,685)	1:A:14:GLN:HG2	2:B:155:ILE:HG23	32	0.12
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG21	44	0.12
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG22	44	0.12
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG23	44	0.12
(1,634)	2:B:129:PRO:HA	2:B:130:THR:HG21	42	0.12
(1,634)	2:B:129:PRO:HA	2:B:130:THR:HG22	42	0.12
(1,634)	2:B:129:PRO:HA	2:B:130:THR:HG23	42	0.12
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG21	22	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG22	22	0.12
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG23	22	0.12
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG21	36	0.12
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG22	36	0.12
(1,626)	2:B:115:ASP:H	2:B:116:THR:HG23	36	0.12
(1,625)	2:B:146:THR:H	2:B:146:THR:HG21	44	0.12
(1,625)	2:B:146:THR:H	2:B:146:THR:HG22	44	0.12
(1,625)	2:B:146:THR:H	2:B:146:THR:HG23	44	0.12
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	37	0.12
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	37	0.12
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	37	0.12
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB1	40	0.12
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB2	40	0.12
(1,599)	1:A:58:LEU:H	1:A:59:ALA:HB3	40	0.12
(1,591)	1:A:58:LEU:HG	1:A:61:GLN:HB2	23	0.12
(1,591)	1:A:58:LEU:HG	1:A:61:GLN:HB3	23	0.12
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB2	42	0.12
(1,588)	1:A:58:LEU:HB2	1:A:61:GLN:HB3	42	0.12
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB2	42	0.12
(1,588)	1:A:58:LEU:HB3	1:A:61:GLN:HB3	42	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	3	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	3	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	3	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	3	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	3	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	3	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	15	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	15	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	15	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	15	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	15	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	15	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	28	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	28	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	28	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	28	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	28	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	28	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	30	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	30	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	30	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	30	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	30	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	30	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB2	44	0.12
(1,564)	1:A:50:MET:HE1	1:A:54:TYR:HB3	44	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB2	44	0.12
(1,564)	1:A:50:MET:HE2	1:A:54:TYR:HB3	44	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB2	44	0.12
(1,564)	1:A:50:MET:HE3	1:A:54:TYR:HB3	44	0.12
(1,56)	1:A:7:ILE:HA	1:A:10:ALA:HA	39	0.12
(1,557)	1:A:53:LEU:HD11	1:A:56:VAL:H	45	0.12
(1,557)	1:A:53:LEU:HD12	1:A:56:VAL:H	45	0.12
(1,557)	1:A:53:LEU:HD13	1:A:56:VAL:H	45	0.12
(1,557)	1:A:53:LEU:HD21	1:A:56:VAL:H	45	0.12
(1,557)	1:A:53:LEU:HD22	1:A:56:VAL:H	45	0.12
(1,557)	1:A:53:LEU:HD23	1:A:56:VAL:H	45	0.12
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	22	0.12
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	22	0.12
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	22	0.12
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	22	0.12
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	22	0.12
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	22	0.12
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	30	0.12
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	30	0.12
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	30	0.12
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	30	0.12
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	30	0.12
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	30	0.12
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	43	0.12
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	43	0.12
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	43	0.12
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	43	0.12
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	43	0.12
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	43	0.12
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD11	32	0.12
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD12	32	0.12
(1,521)	1:A:8:MET:HE1	1:A:11:LEU:HD13	32	0.12
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD11	32	0.12
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD12	32	0.12
(1,521)	1:A:8:MET:HE2	1:A:11:LEU:HD13	32	0.12
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD11	32	0.12
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD12	32	0.12
(1,521)	1:A:8:MET:HE3	1:A:11:LEU:HD13	32	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	19	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	19	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	19	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	23	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	23	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	23	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	28	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	28	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	28	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	29	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	29	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	29	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	31	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	31	0.12
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	31	0.12
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD11	40	0.12
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD12	40	0.12
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD13	40	0.12
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD11	40	0.12
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD12	40	0.12
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD13	40	0.12
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD11	26	0.12
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD12	26	0.12
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD13	26	0.12
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD11	31	0.12
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD12	31	0.12
(1,341)	1:A:33:GLN:HB2	1:A:36:ILE:HD13	31	0.12
(1,321)	1:A:36:ILE:HA	1:A:39:ARG:HG2	31	0.12
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG21	32	0.12
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG22	32	0.12
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG23	32	0.12
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG21	32	0.12
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG22	32	0.12
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG23	32	0.12
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	35	0.12
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	35	0.12
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	45	0.12
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	45	0.12
(1,27)	1:A:49:TYR:HD1	2:B:159:VAL:HB	9	0.12
(1,27)	1:A:49:TYR:HD2	2:B:159:VAL:HB	9	0.12
(1,2401)	2:B:174:LEU:HD11	2:B:175:HIS:HD2	43	0.12
(1,2401)	2:B:174:LEU:HD12	2:B:175:HIS:HD2	43	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2401)	2:B:174:LEU:HD13	2:B:175:HIS:HD2	43	0.12
(1,2401)	2:B:174:LEU:HD21	2:B:175:HIS:HD2	43	0.12
(1,2401)	2:B:174:LEU:HD22	2:B:175:HIS:HD2	43	0.12
(1,2401)	2:B:174:LEU:HD23	2:B:175:HIS:HD2	43	0.12
(1,2393)	2:B:173:LEU:HD11	2:B:175:HIS:HB2	35	0.12
(1,2393)	2:B:173:LEU:HD12	2:B:175:HIS:HB2	35	0.12
(1,2393)	2:B:173:LEU:HD13	2:B:175:HIS:HB2	35	0.12
(1,2393)	2:B:173:LEU:HD21	2:B:175:HIS:HB2	35	0.12
(1,2393)	2:B:173:LEU:HD22	2:B:175:HIS:HB2	35	0.12
(1,2393)	2:B:173:LEU:HD23	2:B:175:HIS:HB2	35	0.12
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG2	40	0.12
(1,2372)	2:B:168:LEU:HD11	2:B:172:LYS:HG3	40	0.12
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG2	40	0.12
(1,2372)	2:B:168:LEU:HD12	2:B:172:LYS:HG3	40	0.12
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG2	40	0.12
(1,2372)	2:B:168:LEU:HD13	2:B:172:LYS:HG3	40	0.12
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG2	40	0.12
(1,2372)	2:B:168:LEU:HD21	2:B:172:LYS:HG3	40	0.12
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG2	40	0.12
(1,2372)	2:B:168:LEU:HD22	2:B:172:LYS:HG3	40	0.12
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG2	40	0.12
(1,2372)	2:B:168:LEU:HD23	2:B:172:LYS:HG3	40	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD11	42	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD12	42	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD13	42	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD21	42	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD22	42	0.12
(1,2345)	2:B:164:CYS:H	2:B:168:LEU:HD23	42	0.12
(1,227)	1:A:17:VAL:HG11	1:A:20:GLN:HE21	35	0.12
(1,227)	1:A:17:VAL:HG12	1:A:20:GLN:HE21	35	0.12
(1,227)	1:A:17:VAL:HG13	1:A:20:GLN:HE21	35	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	21	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	21	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	21	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	26	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	26	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	26	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	28	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	28	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	28	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	31	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	31	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	31	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	32	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	32	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	32	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	38	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	38	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	38	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	43	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	43	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	43	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	44	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	44	0.12
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	44	0.12
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	11	0.12
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	11	0.12
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	11	0.12
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	11	0.12
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	11	0.12
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	11	0.12
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	31	0.12
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	31	0.12
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	31	0.12
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	31	0.12
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG2	32	0.12
(1,2150)	1:A:48:GLN:HE21	1:A:52:GLN:HG3	32	0.12
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG2	32	0.12
(1,2150)	1:A:48:GLN:HE22	1:A:52:GLN:HG3	32	0.12
(1,2111)	1:A:41:LEU:HD11	2:B:171:VAL:H	23	0.12
(1,2111)	1:A:41:LEU:HD12	2:B:171:VAL:H	23	0.12
(1,2111)	1:A:41:LEU:HD13	2:B:171:VAL:H	23	0.12
(1,2111)	1:A:41:LEU:HD21	2:B:171:VAL:H	23	0.12
(1,2111)	1:A:41:LEU:HD22	2:B:171:VAL:H	23	0.12
(1,2111)	1:A:41:LEU:HD23	2:B:171:VAL:H	23	0.12
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB1	37	0.12
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB2	37	0.12
(1,206)	1:A:14:GLN:H	1:A:16:ALA:HB3	37	0.12
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG21	25	0.12
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG22	25	0.12
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG23	25	0.12
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG21	38	0.12
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG22	38	0.12
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG23	38	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG2	1	0.12
(1,1984)	1:A:24:ALA:HB1	1:A:25:GLN:HG3	1	0.12
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG2	1	0.12
(1,1984)	1:A:24:ALA:HB2	1:A:25:GLN:HG3	1	0.12
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG2	1	0.12
(1,1984)	1:A:24:ALA:HB3	1:A:25:GLN:HG3	1	0.12
(1,1960)	1:A:22:TYR:HA	1:A:41:LEU:HD11	35	0.12
(1,1960)	1:A:22:TYR:HA	1:A:41:LEU:HD12	35	0.12
(1,1960)	1:A:22:TYR:HA	1:A:41:LEU:HD13	35	0.12
(1,1960)	1:A:22:TYR:HA	1:A:41:LEU:HD21	35	0.12
(1,1960)	1:A:22:TYR:HA	1:A:41:LEU:HD22	35	0.12
(1,1960)	1:A:22:TYR:HA	1:A:41:LEU:HD23	35	0.12
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD11	32	0.12
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD12	32	0.12
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD13	32	0.12
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD21	32	0.12
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD22	32	0.12
(1,1947)	1:A:20:GLN:HA	1:A:41:LEU:HD23	32	0.12
(1,1922)	1:A:19:PHE:H	1:A:21:GLN:HB2	17	0.12
(1,1922)	1:A:19:PHE:H	1:A:21:GLN:HB3	17	0.12
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD11	9	0.12
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD12	9	0.12
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD13	9	0.12
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD21	9	0.12
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD22	9	0.12
(1,1921)	1:A:18:GLN:HE21	2:B:168:LEU:HD23	9	0.12
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD11	9	0.12
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD12	9	0.12
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD13	9	0.12
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD21	9	0.12
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD22	9	0.12
(1,1921)	1:A:18:GLN:HE22	2:B:168:LEU:HD23	9	0.12
(1,1730)	2:B:146:THR:HG21	2:B:147:GLU:H	7	0.12
(1,1730)	2:B:146:THR:HG22	2:B:147:GLU:H	7	0.12
(1,1730)	2:B:146:THR:HG23	2:B:147:GLU:H	7	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	22	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	22	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	22	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	23	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	23	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	23	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	24	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	24	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	24	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	33	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	33	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	33	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	44	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	44	0.12
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	44	0.12
(1,1651)	2:B:110:ALA:HB1	2:B:111:VAL:H	34	0.12
(1,1651)	2:B:110:ALA:HB2	2:B:111:VAL:H	34	0.12
(1,1651)	2:B:110:ALA:HB3	2:B:111:VAL:H	34	0.12
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	26	0.12
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	26	0.12
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	26	0.12
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	26	0.12
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	26	0.12
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	26	0.12
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	39	0.12
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	39	0.12
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	39	0.12
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	39	0.12
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	39	0.12
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	39	0.12
(1,1615)	1:A:67:LYS:H	1:A:68:GLN:H	42	0.12
(1,161)	1:A:11:LEU:HD21	1:A:14:GLN:HE22	43	0.12
(1,161)	1:A:11:LEU:HD22	1:A:14:GLN:HE22	43	0.12
(1,161)	1:A:11:LEU:HD23	1:A:14:GLN:HE22	43	0.12
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	1	0.12
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	1	0.12
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	1	0.12
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	1	0.12
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	1	0.12
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	1	0.12
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB2	13	0.12
(1,155)	1:A:11:LEU:HD21	1:A:13:SER:HB3	13	0.12
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB2	13	0.12
(1,155)	1:A:11:LEU:HD22	1:A:13:SER:HB3	13	0.12
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB2	13	0.12
(1,155)	1:A:11:LEU:HD23	1:A:13:SER:HB3	13	0.12
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD21	19	0.12
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD22	19	0.12
(1,148)	1:A:10:ALA:HB1	1:A:11:LEU:HD23	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD21	19	0.12
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD22	19	0.12
(1,148)	1:A:10:ALA:HB2	1:A:11:LEU:HD23	19	0.12
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD21	19	0.12
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD22	19	0.12
(1,148)	1:A:10:ALA:HB3	1:A:11:LEU:HD23	19	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	27	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	27	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	27	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	27	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	27	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	27	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	27	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	27	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	27	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	31	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	31	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	31	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	31	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	31	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	31	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	31	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	31	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	31	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	45	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	45	0.12
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	45	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	45	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	45	0.12
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	45	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	45	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	45	0.12
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	45	0.12
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	19	0.12
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	19	0.12
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	25	0.12
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	25	0.12
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	29	0.12
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	29	0.12
(1,1343)	1:A:11:LEU:HD21	1:A:14:GLN:H	37	0.12
(1,1343)	1:A:11:LEU:HD22	1:A:14:GLN:H	37	0.12
(1,1343)	1:A:11:LEU:HD23	1:A:14:GLN:H	37	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1326)	1:A:11:LEU:HD21	1:A:13:SER:H	45	0.12
(1,1326)	1:A:11:LEU:HD22	1:A:13:SER:H	45	0.12
(1,1326)	1:A:11:LEU:HD23	1:A:13:SER:H	45	0.12
(1,1324)	1:A:11:LEU:HD21	1:A:12:ASN:H	41	0.12
(1,1324)	1:A:11:LEU:HD22	1:A:12:ASN:H	41	0.12
(1,1324)	1:A:11:LEU:HD23	1:A:12:ASN:H	41	0.12
(1,1324)	1:A:11:LEU:HD21	1:A:12:ASN:H	42	0.12
(1,1324)	1:A:11:LEU:HD22	1:A:12:ASN:H	42	0.12
(1,1324)	1:A:11:LEU:HD23	1:A:12:ASN:H	42	0.12
(1,1241)	2:B:177:GLY:H	2:B:178:VAL:HG21	4	0.12
(1,1241)	2:B:177:GLY:H	2:B:178:VAL:HG22	4	0.12
(1,1241)	2:B:177:GLY:H	2:B:178:VAL:HG23	4	0.12
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG11	45	0.12
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG12	45	0.12
(1,1240)	2:B:177:GLY:H	2:B:178:VAL:HG13	45	0.12
(1,1221)	2:B:161:GLN:HG2	2:B:165:GLN:H	31	0.12
(1,1221)	2:B:161:GLN:HG3	2:B:165:GLN:H	31	0.12
(1,1100)	1:A:17:VAL:HA	1:A:20:GLN:HB3	40	0.12
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD11	24	0.12
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD12	24	0.12
(1,1051)	2:B:144:VAL:HA	2:B:145:ILE:HD13	24	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	22	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	22	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	22	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	22	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	22	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	22	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	25	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	25	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	25	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	25	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	25	0.12
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	25	0.12
(1,92)	1:A:7:ILE:HD11	1:A:46:TYR:HE1	28	0.11
(1,92)	1:A:7:ILE:HD11	1:A:46:TYR:HE2	28	0.11
(1,92)	1:A:7:ILE:HD12	1:A:46:TYR:HE1	28	0.11
(1,92)	1:A:7:ILE:HD12	1:A:46:TYR:HE2	28	0.11
(1,92)	1:A:7:ILE:HD13	1:A:46:TYR:HE1	28	0.11
(1,92)	1:A:7:ILE:HD13	1:A:46:TYR:HE2	28	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	2	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	2	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	8	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	8	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	8	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	15	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	15	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	15	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD11	17	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD12	17	0.11
(1,90)	1:A:4:LYS:HA	1:A:7:ILE:HD13	17	0.11
(1,869)	1:A:27:TYR:HD1	1:A:28:PRO:HD3	31	0.11
(1,869)	1:A:27:TYR:HD2	1:A:28:PRO:HD3	31	0.11
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB1	11	0.11
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB2	11	0.11
(1,85)	1:A:7:ILE:HD11	1:A:10:ALA:HB3	11	0.11
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB1	11	0.11
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB2	11	0.11
(1,85)	1:A:7:ILE:HD12	1:A:10:ALA:HB3	11	0.11
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB1	11	0.11
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB2	11	0.11
(1,85)	1:A:7:ILE:HD13	1:A:10:ALA:HB3	11	0.11
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	3	0.11
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	3	0.11
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	4	0.11
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	4	0.11
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	23	0.11
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	23	0.11
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	39	0.11
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	39	0.11
(1,806)	1:A:22:TYR:HE1	1:A:26:GLN:HE21	42	0.11
(1,806)	1:A:22:TYR:HE2	1:A:26:GLN:HE21	42	0.11
(1,788)	1:A:49:TYR:HE1	1:A:53:LEU:HB3	14	0.11
(1,788)	1:A:49:TYR:HE2	1:A:53:LEU:HB3	14	0.11
(1,788)	1:A:49:TYR:HE1	1:A:53:LEU:HB3	44	0.11
(1,788)	1:A:49:TYR:HE2	1:A:53:LEU:HB3	44	0.11
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	21	0.11
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	38	0.11
(1,776)	2:B:173:LEU:HA	2:B:175:HIS:HB2	40	0.11
(1,751)	1:A:19:PHE:HE1	2:B:168:LEU:HG	38	0.11
(1,751)	1:A:19:PHE:HE2	2:B:168:LEU:HG	38	0.11
(1,751)	1:A:19:PHE:HE1	2:B:168:LEU:HG	39	0.11
(1,751)	1:A:19:PHE:HE2	2:B:168:LEU:HG	39	0.11
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG21	31	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG22	31	0.11
(1,684)	1:A:6:GLN:HB2	2:B:155:ILE:HG23	31	0.11
(1,654)	2:B:154:VAL:H	2:B:154:VAL:HB	30	0.11
(1,654)	2:B:154:VAL:H	2:B:154:VAL:HB	40	0.11
(1,647)	2:B:145:ILE:HG21	2:B:145:ILE:HG12	39	0.11
(1,647)	2:B:145:ILE:HG22	2:B:145:ILE:HG12	39	0.11
(1,647)	2:B:145:ILE:HG23	2:B:145:ILE:HG12	39	0.11
(1,625)	2:B:146:THR:H	2:B:146:THR:HG21	4	0.11
(1,625)	2:B:146:THR:H	2:B:146:THR:HG22	4	0.11
(1,625)	2:B:146:THR:H	2:B:146:THR:HG23	4	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	19	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	19	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	19	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	25	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	25	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	25	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	28	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	28	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	28	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	29	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	29	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	29	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	33	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	33	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	33	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	41	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	41	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	41	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG21	43	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG22	43	0.11
(1,624)	2:B:146:THR:HA	2:B:146:THR:HG23	43	0.11
(1,594)	1:A:58:LEU:HG	1:A:59:ALA:H	43	0.11
(1,57)	1:A:36:ILE:HA	1:A:39:ARG:HA	30	0.11
(1,56)	1:A:7:ILE:HA	1:A:10:ALA:HA	41	0.11
(1,557)	1:A:53:LEU:HD11	1:A:56:VAL:H	31	0.11
(1,557)	1:A:53:LEU:HD12	1:A:56:VAL:H	31	0.11
(1,557)	1:A:53:LEU:HD13	1:A:56:VAL:H	31	0.11
(1,557)	1:A:53:LEU:HD21	1:A:56:VAL:H	31	0.11
(1,557)	1:A:53:LEU:HD22	1:A:56:VAL:H	31	0.11
(1,557)	1:A:53:LEU:HD23	1:A:56:VAL:H	31	0.11
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	13	0.11
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	13	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	13	0.11
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	13	0.11
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	13	0.11
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	13	0.11
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	20	0.11
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	20	0.11
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	20	0.11
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	20	0.11
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	20	0.11
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	20	0.11
(1,550)	1:A:53:LEU:HD11	1:A:54:TYR:HA	27	0.11
(1,550)	1:A:53:LEU:HD12	1:A:54:TYR:HA	27	0.11
(1,550)	1:A:53:LEU:HD13	1:A:54:TYR:HA	27	0.11
(1,550)	1:A:53:LEU:HD21	1:A:54:TYR:HA	27	0.11
(1,550)	1:A:53:LEU:HD22	1:A:54:TYR:HA	27	0.11
(1,550)	1:A:53:LEU:HD23	1:A:54:TYR:HA	27	0.11
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	29	0.11
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	29	0.11
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	29	0.11
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	29	0.11
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	29	0.11
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	29	0.11
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE1	42	0.11
(1,511)	1:A:8:MET:HE1	1:A:46:TYR:HE2	42	0.11
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE1	42	0.11
(1,511)	1:A:8:MET:HE2	1:A:46:TYR:HE2	42	0.11
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE1	42	0.11
(1,511)	1:A:8:MET:HE3	1:A:46:TYR:HE2	42	0.11
(1,505)	1:A:8:MET:H	1:A:8:MET:HE1	34	0.11
(1,505)	1:A:8:MET:H	1:A:8:MET:HE2	34	0.11
(1,505)	1:A:8:MET:H	1:A:8:MET:HE3	34	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	11	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	11	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	11	0.11
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	11	0.11
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	11	0.11
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	11	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	37	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	37	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	37	0.11
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	37	0.11
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	37	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	37	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE1	40	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE2	40	0.11
(1,495)	1:A:46:TYR:HD1	1:A:50:MET:HE3	40	0.11
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE1	40	0.11
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE2	40	0.11
(1,495)	1:A:46:TYR:HD2	1:A:50:MET:HE3	40	0.11
(1,471)	1:A:7:ILE:HG21	1:A:46:TYR:HB3	37	0.11
(1,471)	1:A:7:ILE:HG22	1:A:46:TYR:HB3	37	0.11
(1,471)	1:A:7:ILE:HG23	1:A:46:TYR:HB3	37	0.11
(1,441)	1:A:41:LEU:HD11	2:B:168:LEU:HA	38	0.11
(1,441)	1:A:41:LEU:HD12	2:B:168:LEU:HA	38	0.11
(1,441)	1:A:41:LEU:HD13	2:B:168:LEU:HA	38	0.11
(1,422)	1:A:39:ARG:HB2	1:A:40:GLN:H	3	0.11
(1,422)	1:A:39:ARG:HB3	1:A:40:GLN:H	3	0.11
(1,422)	1:A:39:ARG:HB2	1:A:40:GLN:H	28	0.11
(1,422)	1:A:39:ARG:HB3	1:A:40:GLN:H	28	0.11
(1,4)	1:A:19:PHE:HD1	1:A:42:GLN:HE22	40	0.11
(1,4)	1:A:19:PHE:HD2	1:A:42:GLN:HE22	40	0.11
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD11	22	0.11
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD12	22	0.11
(1,363)	1:A:22:TYR:HD1	1:A:37:LEU:HD13	22	0.11
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD11	22	0.11
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD12	22	0.11
(1,363)	1:A:22:TYR:HD2	1:A:37:LEU:HD13	22	0.11
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD11	45	0.11
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD12	45	0.11
(1,355)	1:A:32:GLU:H	1:A:36:ILE:HD13	45	0.11
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD11	35	0.11
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD12	35	0.11
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD13	35	0.11
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD11	41	0.11
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD12	41	0.11
(1,351)	1:A:33:GLN:HE21	1:A:36:ILE:HD13	41	0.11
(1,337)	1:A:33:GLN:HE21	1:A:36:ILE:HG21	45	0.11
(1,337)	1:A:33:GLN:HE21	1:A:36:ILE:HG22	45	0.11
(1,337)	1:A:33:GLN:HE21	1:A:36:ILE:HG23	45	0.11
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG21	40	0.11
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG22	40	0.11
(1,336)	1:A:33:GLN:HE22	1:A:36:ILE:HG23	40	0.11
(1,321)	1:A:36:ILE:HA	1:A:39:ARG:HG2	37	0.11
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG21	33	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG22	33	0.11
(1,29)	1:A:49:TYR:HD1	2:B:159:VAL:HG23	33	0.11
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG21	33	0.11
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG22	33	0.11
(1,29)	1:A:49:TYR:HD2	2:B:159:VAL:HG23	33	0.11
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG2	28	0.11
(1,285)	1:A:26:GLN:HA	1:A:28:PRO:HG3	28	0.11
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD11	43	0.11
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD12	43	0.11
(1,251)	1:A:23:ALA:HA	1:A:38:ILE:HD13	43	0.11
(1,2401)	2:B:174:LEU:HD11	2:B:175:HIS:HD2	28	0.11
(1,2401)	2:B:174:LEU:HD12	2:B:175:HIS:HD2	28	0.11
(1,2401)	2:B:174:LEU:HD13	2:B:175:HIS:HD2	28	0.11
(1,2401)	2:B:174:LEU:HD21	2:B:175:HIS:HD2	28	0.11
(1,2401)	2:B:174:LEU:HD22	2:B:175:HIS:HD2	28	0.11
(1,2401)	2:B:174:LEU:HD23	2:B:175:HIS:HD2	28	0.11
(1,2401)	2:B:174:LEU:HD11	2:B:175:HIS:HD2	35	0.11
(1,2401)	2:B:174:LEU:HD12	2:B:175:HIS:HD2	35	0.11
(1,2401)	2:B:174:LEU:HD13	2:B:175:HIS:HD2	35	0.11
(1,2401)	2:B:174:LEU:HD21	2:B:175:HIS:HD2	35	0.11
(1,2401)	2:B:174:LEU:HD22	2:B:175:HIS:HD2	35	0.11
(1,2401)	2:B:174:LEU:HD23	2:B:175:HIS:HD2	35	0.11
(1,2400)	2:B:174:LEU:HD11	2:B:175:HIS:HB2	1	0.11
(1,2400)	2:B:174:LEU:HD12	2:B:175:HIS:HB2	1	0.11
(1,2400)	2:B:174:LEU:HD13	2:B:175:HIS:HB2	1	0.11
(1,2400)	2:B:174:LEU:HD21	2:B:175:HIS:HB2	1	0.11
(1,2400)	2:B:174:LEU:HD22	2:B:175:HIS:HB2	1	0.11
(1,2400)	2:B:174:LEU:HD23	2:B:175:HIS:HB2	1	0.11
(1,2393)	2:B:173:LEU:HD11	2:B:175:HIS:HB2	29	0.11
(1,2393)	2:B:173:LEU:HD12	2:B:175:HIS:HB2	29	0.11
(1,2393)	2:B:173:LEU:HD13	2:B:175:HIS:HB2	29	0.11
(1,2393)	2:B:173:LEU:HD21	2:B:175:HIS:HB2	29	0.11
(1,2393)	2:B:173:LEU:HD22	2:B:175:HIS:HB2	29	0.11
(1,2393)	2:B:173:LEU:HD23	2:B:175:HIS:HB2	29	0.11
(1,2393)	2:B:173:LEU:HD11	2:B:175:HIS:HB2	40	0.11
(1,2393)	2:B:173:LEU:HD12	2:B:175:HIS:HB2	40	0.11
(1,2393)	2:B:173:LEU:HD13	2:B:175:HIS:HB2	40	0.11
(1,2393)	2:B:173:LEU:HD21	2:B:175:HIS:HB2	40	0.11
(1,2393)	2:B:173:LEU:HD22	2:B:175:HIS:HB2	40	0.11
(1,2393)	2:B:173:LEU:HD23	2:B:175:HIS:HB2	40	0.11
(1,2393)	2:B:173:LEU:HD11	2:B:175:HIS:HB2	42	0.11
(1,2393)	2:B:173:LEU:HD12	2:B:175:HIS:HB2	42	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2393)	2:B:173:LEU:HD13	2:B:175:HIS:HB2	42	0.11
(1,2393)	2:B:173:LEU:HD21	2:B:175:HIS:HB2	42	0.11
(1,2393)	2:B:173:LEU:HD22	2:B:175:HIS:HB2	42	0.11
(1,2393)	2:B:173:LEU:HD23	2:B:175:HIS:HB2	42	0.11
(1,2329)	2:B:158:GLU:HG2	2:B:160:ALA:H	32	0.11
(1,2329)	2:B:158:GLU:HG3	2:B:160:ALA:H	32	0.11
(1,2329)	2:B:158:GLU:HG2	2:B:160:ALA:H	38	0.11
(1,2329)	2:B:158:GLU:HG3	2:B:160:ALA:H	38	0.11
(1,2329)	2:B:158:GLU:HG2	2:B:160:ALA:H	40	0.11
(1,2329)	2:B:158:GLU:HG3	2:B:160:ALA:H	40	0.11
(1,2329)	2:B:158:GLU:HG2	2:B:160:ALA:H	42	0.11
(1,2329)	2:B:158:GLU:HG3	2:B:160:ALA:H	42	0.11
(1,2329)	2:B:158:GLU:HG2	2:B:160:ALA:H	44	0.11
(1,2329)	2:B:158:GLU:HG3	2:B:160:ALA:H	44	0.11
(1,2318)	2:B:156:ASP:HB2	2:B:159:VAL:HB	29	0.11
(1,2318)	2:B:156:ASP:HB3	2:B:159:VAL:HB	29	0.11
(1,227)	1:A:17:VAL:HG11	1:A:20:GLN:HE21	45	0.11
(1,227)	1:A:17:VAL:HG12	1:A:20:GLN:HE21	45	0.11
(1,227)	1:A:17:VAL:HG13	1:A:20:GLN:HE21	45	0.11
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB2	5	0.11
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB3	5	0.11
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB2	43	0.11
(1,2267)	2:B:124:LYS:H	2:B:124:LYS:HB3	43	0.11
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG21	3	0.11
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG22	3	0.11
(1,225)	1:A:54:TYR:H	1:A:56:VAL:HG23	3	0.11
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB2	19	0.11
(1,2235)	1:A:63:ALA:HA	1:A:66:GLN:HB3	19	0.11
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	3	0.11
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	3	0.11
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	3	0.11
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	3	0.11
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	3	0.11
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	3	0.11
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	9	0.11
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	9	0.11
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	9	0.11
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	9	0.11
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	9	0.11
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	9	0.11
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	10	0.11
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	10	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	10	0.11
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	10	0.11
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	10	0.11
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	10	0.11
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	16	0.11
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	16	0.11
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	16	0.11
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	16	0.11
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	16	0.11
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	16	0.11
(1,2216)	1:A:58:LEU:HD11	1:A:62:GLN:H	21	0.11
(1,2216)	1:A:58:LEU:HD12	1:A:62:GLN:H	21	0.11
(1,2216)	1:A:58:LEU:HD13	1:A:62:GLN:H	21	0.11
(1,2216)	1:A:58:LEU:HD21	1:A:62:GLN:H	21	0.11
(1,2216)	1:A:58:LEU:HD22	1:A:62:GLN:H	21	0.11
(1,2216)	1:A:58:LEU:HD23	1:A:62:GLN:H	21	0.11
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD11	12	0.11
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD12	12	0.11
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD13	12	0.11
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD21	12	0.11
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD22	12	0.11
(1,2193)	1:A:56:VAL:HA	1:A:58:LEU:HD23	12	0.11
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD11	23	0.11
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD12	23	0.11
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD13	23	0.11
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD21	23	0.11
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD22	23	0.11
(1,2192)	1:A:55:GLN:HG2	1:A:58:LEU:HD23	23	0.11
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG11	14	0.11
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG12	14	0.11
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG13	14	0.11
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG21	14	0.11
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG22	14	0.11
(1,2133)	1:A:45:HIS:HD2	2:B:167:VAL:HG23	14	0.11
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	20	0.11
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	20	0.11
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	20	0.11
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	20	0.11
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	20	0.11
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	20	0.11
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	27	0.11
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	27	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	27	0.11
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	27	0.11
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	27	0.11
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	27	0.11
(1,2104)	1:A:41:LEU:HD11	2:B:167:VAL:HA	28	0.11
(1,2104)	1:A:41:LEU:HD12	2:B:167:VAL:HA	28	0.11
(1,2104)	1:A:41:LEU:HD13	2:B:167:VAL:HA	28	0.11
(1,2104)	1:A:41:LEU:HD21	2:B:167:VAL:HA	28	0.11
(1,2104)	1:A:41:LEU:HD22	2:B:167:VAL:HA	28	0.11
(1,2104)	1:A:41:LEU:HD23	2:B:167:VAL:HA	28	0.11
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG2	38	0.11
(1,2101)	1:A:41:LEU:HD11	1:A:44:GLN:HG3	38	0.11
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG2	38	0.11
(1,2101)	1:A:41:LEU:HD12	1:A:44:GLN:HG3	38	0.11
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG2	38	0.11
(1,2101)	1:A:41:LEU:HD13	1:A:44:GLN:HG3	38	0.11
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG2	38	0.11
(1,2101)	1:A:41:LEU:HD21	1:A:44:GLN:HG3	38	0.11
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG2	38	0.11
(1,2101)	1:A:41:LEU:HD22	1:A:44:GLN:HG3	38	0.11
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG2	38	0.11
(1,2101)	1:A:41:LEU:HD23	1:A:44:GLN:HG3	38	0.11
(1,2058)	1:A:37:LEU:HD11	1:A:41:LEU:HA	40	0.11
(1,2058)	1:A:37:LEU:HD12	1:A:41:LEU:HA	40	0.11
(1,2058)	1:A:37:LEU:HD13	1:A:41:LEU:HA	40	0.11
(1,2058)	1:A:37:LEU:HD21	1:A:41:LEU:HA	40	0.11
(1,2058)	1:A:37:LEU:HD22	1:A:41:LEU:HA	40	0.11
(1,2058)	1:A:37:LEU:HD23	1:A:41:LEU:HA	40	0.11
(1,2056)	1:A:37:LEU:HD11	1:A:40:GLN:HG2	12	0.11
(1,2056)	1:A:37:LEU:HD11	1:A:40:GLN:HG3	12	0.11
(1,2056)	1:A:37:LEU:HD12	1:A:40:GLN:HG2	12	0.11
(1,2056)	1:A:37:LEU:HD12	1:A:40:GLN:HG3	12	0.11
(1,2056)	1:A:37:LEU:HD13	1:A:40:GLN:HG2	12	0.11
(1,2056)	1:A:37:LEU:HD13	1:A:40:GLN:HG3	12	0.11
(1,2056)	1:A:37:LEU:HD21	1:A:40:GLN:HG2	12	0.11
(1,2056)	1:A:37:LEU:HD21	1:A:40:GLN:HG3	12	0.11
(1,2056)	1:A:37:LEU:HD22	1:A:40:GLN:HG2	12	0.11
(1,2056)	1:A:37:LEU:HD22	1:A:40:GLN:HG3	12	0.11
(1,2056)	1:A:37:LEU:HD23	1:A:40:GLN:HG2	12	0.11
(1,2056)	1:A:37:LEU:HD23	1:A:40:GLN:HG3	12	0.11
(1,2027)	1:A:31:TYR:HB2	1:A:32:GLU:HB2	27	0.11
(1,2027)	1:A:31:TYR:HB2	1:A:32:GLU:HB3	27	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2027)	1:A:31:TYR:HB3	1:A:32:GLU:HB2	27	0.11
(1,2027)	1:A:31:TYR:HB3	1:A:32:GLU:HB3	27	0.11
(1,2025)	1:A:31:TYR:HA	1:A:35:GLN:HE21	14	0.11
(1,2025)	1:A:31:TYR:HA	1:A:35:GLN:HE22	14	0.11
(1,2015)	1:A:30:ASN:HB2	1:A:32:GLU:H	25	0.11
(1,2015)	1:A:30:ASN:HB3	1:A:32:GLU:H	25	0.11
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG21	33	0.11
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG22	33	0.11
(1,201)	1:A:14:GLN:H	1:A:15:THR:HG23	33	0.11
(1,1993)	1:A:25:GLN:HG2	1:A:26:GLN:HA	17	0.11
(1,1993)	1:A:25:GLN:HG3	1:A:26:GLN:HA	17	0.11
(1,1990)	1:A:25:GLN:HB2	1:A:26:GLN:H	21	0.11
(1,1990)	1:A:25:GLN:HB3	1:A:26:GLN:H	21	0.11
(1,1990)	1:A:25:GLN:HB2	1:A:26:GLN:H	42	0.11
(1,1990)	1:A:25:GLN:HB3	1:A:26:GLN:H	42	0.11
(1,1989)	1:A:25:GLN:H	1:A:37:LEU:HD11	44	0.11
(1,1989)	1:A:25:GLN:H	1:A:37:LEU:HD12	44	0.11
(1,1989)	1:A:25:GLN:H	1:A:37:LEU:HD13	44	0.11
(1,1989)	1:A:25:GLN:H	1:A:37:LEU:HD21	44	0.11
(1,1989)	1:A:25:GLN:H	1:A:37:LEU:HD22	44	0.11
(1,1989)	1:A:25:GLN:H	1:A:37:LEU:HD23	44	0.11
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD11	15	0.11
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD12	15	0.11
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD13	15	0.11
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD21	15	0.11
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD22	15	0.11
(1,1970)	1:A:22:TYR:HE1	2:B:168:LEU:HD23	15	0.11
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD11	15	0.11
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD12	15	0.11
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD13	15	0.11
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD21	15	0.11
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD22	15	0.11
(1,1970)	1:A:22:TYR:HE2	2:B:168:LEU:HD23	15	0.11
(1,1951)	1:A:21:GLN:HB2	1:A:22:TYR:H	17	0.11
(1,1951)	1:A:21:GLN:HB3	1:A:22:TYR:H	17	0.11
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	14	0.11
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	14	0.11
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	14	0.11
(1,1866)	2:B:121:ALA:HB1	2:B:123:LEU:H	37	0.11
(1,1866)	2:B:121:ALA:HB2	2:B:123:LEU:H	37	0.11
(1,1866)	2:B:121:ALA:HB3	2:B:123:LEU:H	37	0.11
(1,1755)	2:B:152:LEU:HD21	2:B:153:SER:H	22	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1755)	2:B:152:LEU:HD22	2:B:153:SER:H	22	0.11
(1,1755)	2:B:152:LEU:HD23	2:B:153:SER:H	22	0.11
(1,1755)	2:B:152:LEU:HD21	2:B:153:SER:H	29	0.11
(1,1755)	2:B:152:LEU:HD22	2:B:153:SER:H	29	0.11
(1,1755)	2:B:152:LEU:HD23	2:B:153:SER:H	29	0.11
(1,1755)	2:B:152:LEU:HD21	2:B:153:SER:H	36	0.11
(1,1755)	2:B:152:LEU:HD22	2:B:153:SER:H	36	0.11
(1,1755)	2:B:152:LEU:HD23	2:B:153:SER:H	36	0.11
(1,1751)	2:B:150:GLY:HA2	2:B:151:GLU:H	4	0.11
(1,1751)	2:B:150:GLY:HA3	2:B:151:GLU:H	4	0.11
(1,1743)	2:B:148:GLY:HA2	2:B:149:VAL:H	45	0.11
(1,1743)	2:B:148:GLY:HA3	2:B:149:VAL:H	45	0.11
(1,1733)	2:B:146:THR:HA	2:B:147:GLU:H	32	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	9	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	9	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	9	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	18	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	18	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	18	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	19	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	19	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	19	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	28	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	28	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	28	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD21	35	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD22	35	0.11
(1,167)	1:A:10:ALA:H	1:A:11:LEU:HD23	35	0.11
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD1	37	0.11
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD2	37	0.11
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD1	37	0.11
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD2	37	0.11
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD1	37	0.11
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD2	37	0.11
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD1	43	0.11
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD2	43	0.11
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD1	43	0.11
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD2	43	0.11
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD1	43	0.11
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD2	43	0.11
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD1	45	0.11
(1,166)	1:A:11:LEU:HD21	1:A:46:TYR:HD2	45	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD1	45	0.11
(1,166)	1:A:11:LEU:HD22	1:A:46:TYR:HD2	45	0.11
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD1	45	0.11
(1,166)	1:A:11:LEU:HD23	1:A:46:TYR:HD2	45	0.11
(1,1653)	2:B:111:VAL:H	2:B:112:ALA:H	20	0.11
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	10	0.11
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	10	0.11
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	10	0.11
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	10	0.11
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	10	0.11
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	10	0.11
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE1	42	0.11
(1,165)	1:A:11:LEU:HD21	1:A:46:TYR:HE2	42	0.11
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE1	42	0.11
(1,165)	1:A:11:LEU:HD22	1:A:46:TYR:HE2	42	0.11
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE1	42	0.11
(1,165)	1:A:11:LEU:HD23	1:A:46:TYR:HE2	42	0.11
(1,156)	1:A:8:MET:HA	1:A:11:LEU:HD21	20	0.11
(1,156)	1:A:8:MET:HA	1:A:11:LEU:HD22	20	0.11
(1,156)	1:A:8:MET:HA	1:A:11:LEU:HD23	20	0.11
(1,1486)	1:A:30:ASN:HD22	1:A:33:GLN:HG2	44	0.11
(1,1486)	1:A:30:ASN:HD22	1:A:33:GLN:HG3	44	0.11
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG21	20	0.11
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG22	20	0.11
(1,146)	1:A:11:LEU:HD21	1:A:15:THR:HG23	20	0.11
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG21	20	0.11
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG22	20	0.11
(1,146)	1:A:11:LEU:HD22	1:A:15:THR:HG23	20	0.11
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG21	20	0.11
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG22	20	0.11
(1,146)	1:A:11:LEU:HD23	1:A:15:THR:HG23	20	0.11
(1,1427)	1:A:30:ASN:H	1:A:34:GLN:HB2	38	0.11
(1,1427)	1:A:30:ASN:H	1:A:34:GLN:HB2	41	0.11
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	22	0.11
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	22	0.11
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	23	0.11
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	23	0.11
(1,1399)	1:A:22:TYR:HD1	1:A:24:ALA:H	39	0.11
(1,1399)	1:A:22:TYR:HD2	1:A:24:ALA:H	39	0.11
(1,135)	1:A:11:LEU:HD11	1:A:49:TYR:HE1	13	0.11
(1,135)	1:A:11:LEU:HD11	1:A:49:TYR:HE2	13	0.11
(1,135)	1:A:11:LEU:HD12	1:A:49:TYR:HE1	13	0.11

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| Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,135)	1:A:11:LEU:HD12	1:A:49:TYR:HE2	13	0.11
(1,135)	1:A:11:LEU:HD13	1:A:49:TYR:HE1	13	0.11
(1,135)	1:A:11:LEU:HD13	1:A:49:TYR:HE2	13	0.11
(1,1328)	1:A:13:SER:H	1:A:14:GLN:HG2	41	0.11
(1,1323)	1:A:11:LEU:HD11	1:A:12:ASN:H	38	0.11
(1,1323)	1:A:11:LEU:HD12	1:A:12:ASN:H	38	0.11
(1,1323)	1:A:11:LEU:HD13	1:A:12:ASN:H	38	0.11
(1,1257)	2:B:171:VAL:HB	2:B:172:LYS:H	44	0.11
(1,1202)	1:A:50:MET:H	1:A:50:MET:HE1	41	0.11
(1,1202)	1:A:50:MET:H	1:A:50:MET:HE2	41	0.11
(1,1202)	1:A:50:MET:H	1:A:50:MET:HE3	41	0.11
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG11	34	0.11
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG12	34	0.11
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG13	34	0.11
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG21	34	0.11
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG22	34	0.11
(1,1044)	2:B:168:LEU:HB3	2:B:171:VAL:HG23	34	0.11
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG11	19	0.11
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG12	19	0.11
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG13	19	0.11
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG21	19	0.11
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG22	19	0.11
(1,1043)	2:B:168:LEU:HB2	2:B:171:VAL:HG23	19	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB1	9	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB2	9	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB3	9	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB1	9	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB2	9	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB3	9	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB1	13	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB2	13	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB3	13	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB1	13	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB2	13	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB3	13	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB1	14	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB2	14	0.11
(1,101)	1:A:55:GLN:HB2	1:A:59:ALA:HB3	14	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB1	14	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB2	14	0.11
(1,101)	1:A:55:GLN:HB3	1:A:59:ALA:HB3	14	0.11

10　Dihedral-angle violation analysis ⓘ

10.1　Summary of dihedral-angle violations ⓘ

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

Angle type	Count	$\%^1$	Violated[3]			Consistently Violated[4]		
			Count	$\%^2$	$\%^1$	Count	$\%^2$	$\%^1$
PSI	79	50.0	11	13.9	7.0	0	0.0	0.0
PHI	79	50.0	10	12.7	6.3	0	0.0	0.0
Total	158	100.0	21	13.3	13.3	0	0.0	0.0

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

10.1.1　Bar chart : Distribution of dihedral-angles and violations ⓘ
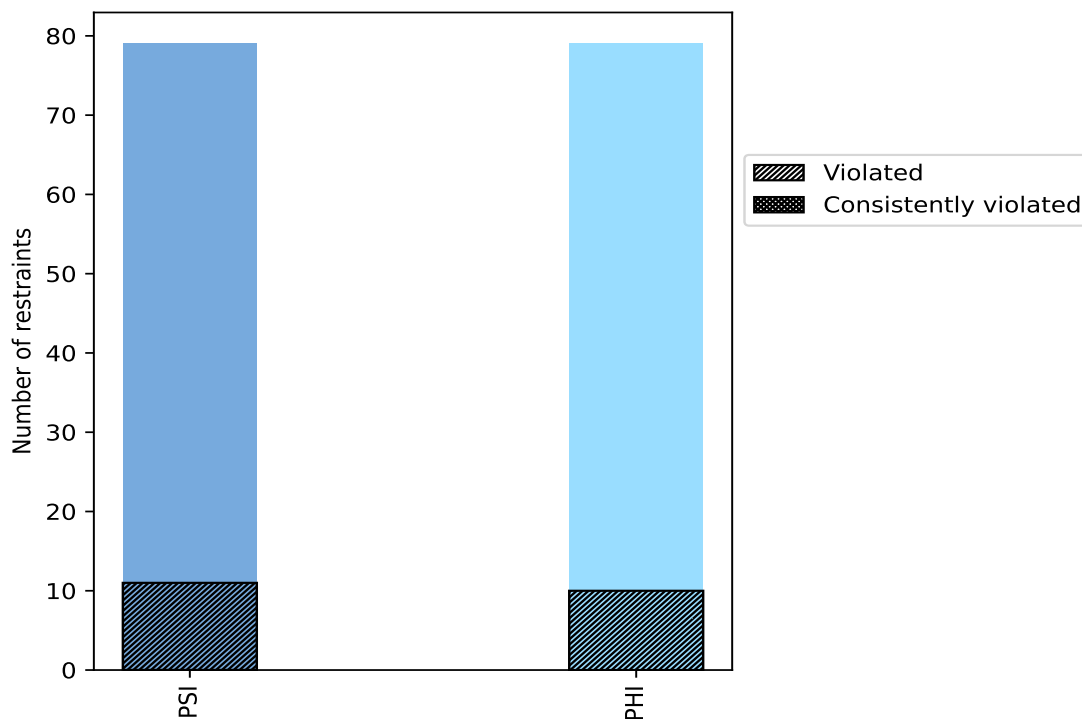
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

10.2 Dihedral-angle violation statistics for each model ⓘ

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

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	0	2	2	3.0	4.9	1.9	3.0
2	0	1	1	4.9	4.9	0.0	4.9
3	0	1	1	1.1	1.1	0.0	1.1
4	0	1	1	1.3	1.3	0.0	1.3
5	0	1	1	4.8	4.8	0.0	4.8
6	0	1	1	4.8	4.8	0.0	4.8
7	0	1	1	4.9	4.9	0.0	4.9
8	0	2	2	3.35	4.8	1.45	3.35
9	0	1	1	4.9	4.9	0.0	4.9
10	0	0	0	0.0	0.0	0.0	0.0
11	0	0	0	0.0	0.0	0.0	0.0
12	0	1	1	4.9	4.9	0.0	4.9
13	0	3	3	4.6	4.7	0.08	4.6
14	1	2	3	1.77	2.5	0.52	1.4
15	0	2	2	4.3	4.8	0.5	4.3
16	0	2	2	4.2	4.4	0.2	4.2
17	0	2	2	3.0	4.8	1.8	3.0
18	0	2	2	2.9	4.1	1.2	2.9
19	1	2	3	2.97	4.3	0.96	2.5
20	0	1	1	3.5	3.5	0.0	3.5
21	0	1	1	4.4	4.4	0.0	4.4
22	2	2	4	3.2	3.9	0.84	3.55
23	3	0	3	3.0	4.2	1.24	3.5
24	0	2	2	2.05	2.2	0.15	2.05
25	1	1	2	1.35	1.5	0.15	1.35
26	0	0	0	0.0	0.0	0.0	0.0
27	0	0	0	0.0	0.0	0.0	0.0
28	2	2	4	2.47	3.4	0.58	2.35
29	0	1	1	4.9	4.9	0.0	4.9
30	1	0	1	2.4	2.4	0.0	2.4
31	1	1	2	3.3	4.6	1.3	3.3
32	0	1	1	3.6	3.6	0.0	3.6
33	2	1	3	1.87	2.6	0.54	1.7
34	0	1	1	4.4	4.4	0.0	4.4
35	2	1	3	3.33	4.5	1.25	3.9
36	0	0	0	0.0	0.0	0.0	0.0
37	1	2	3	2.97	3.8	1.11	3.7
38	1	2	3	2.27	2.8	0.56	2.5

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Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
39	1	0	1	2.6	2.6	0.0	2.6
40	3	0	3	1.57	1.9	0.25	1.5
41	4	1	5	3.0	4.8	1.26	2.7
42	3	1	4	2.98	4.5	1.49	3.1
43	1	0	1	1.6	1.6	0.0	1.6
44	4	4	8	3.32	4.8	1.13	3.5
45	4	2	6	2.95	4.1	1.0	2.95

10.2.1　Bar graph : Dihedral violation statistics for each model ⓘ
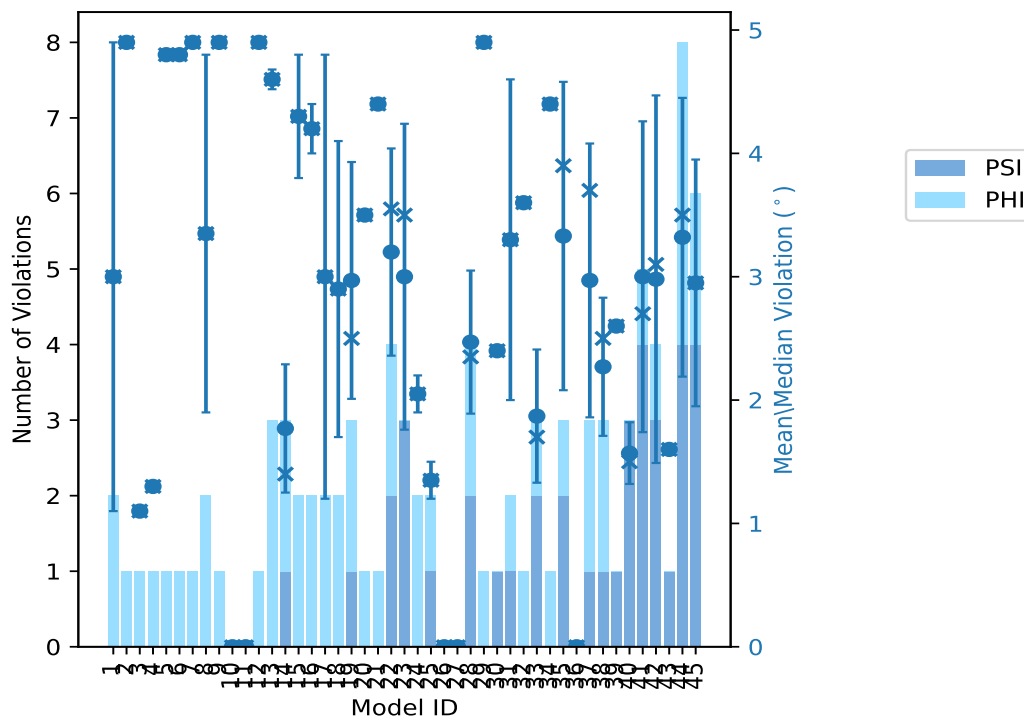
The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

10.3　Dihedral-angle violation statistics for the ensemble ⓘ

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

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
5	3	8	1	2.2
1	2	3	2	4.4
1	1	2	3	6.7
0	1	1	4	8.9
2	0	2	5	11.1
0	2	2	6	13.3
0	0	0	7	15.6
1	0	1	8	17.8
0	0	0	9	20.0
1	0	1	10	22.2
0	0	0	11	24.4
0	0	0	12	26.7
0	0	0	13	28.9
0	0	0	14	31.1
0	0	0	15	33.3
0	0	0	16	35.6
0	0	0	17	37.8
0	0	0	18	40.0
0	0	0	19	42.2
0	0	0	20	44.4
0	0	0	21	46.7
0	0	0	22	48.9
0	0	0	23	51.1
0	0	0	24	53.3
0	0	0	25	55.6
0	0	0	26	57.8
0	0	0	27	60.0
0	1	1	28	62.2
0	0	0	29	64.4
0	0	0	30	66.7
0	0	0	31	68.9
0	0	0	32	71.1
0	0	0	33	73.3
0	0	0	34	75.6
0	0	0	35	77.8
0	0	0	36	80.0
0	0	0	37	82.2
0	0	0	38	84.4
0	0	0	39	86.7
0	0	0	40	88.9
0	0	0	41	91.1
0	0	0	42	93.3

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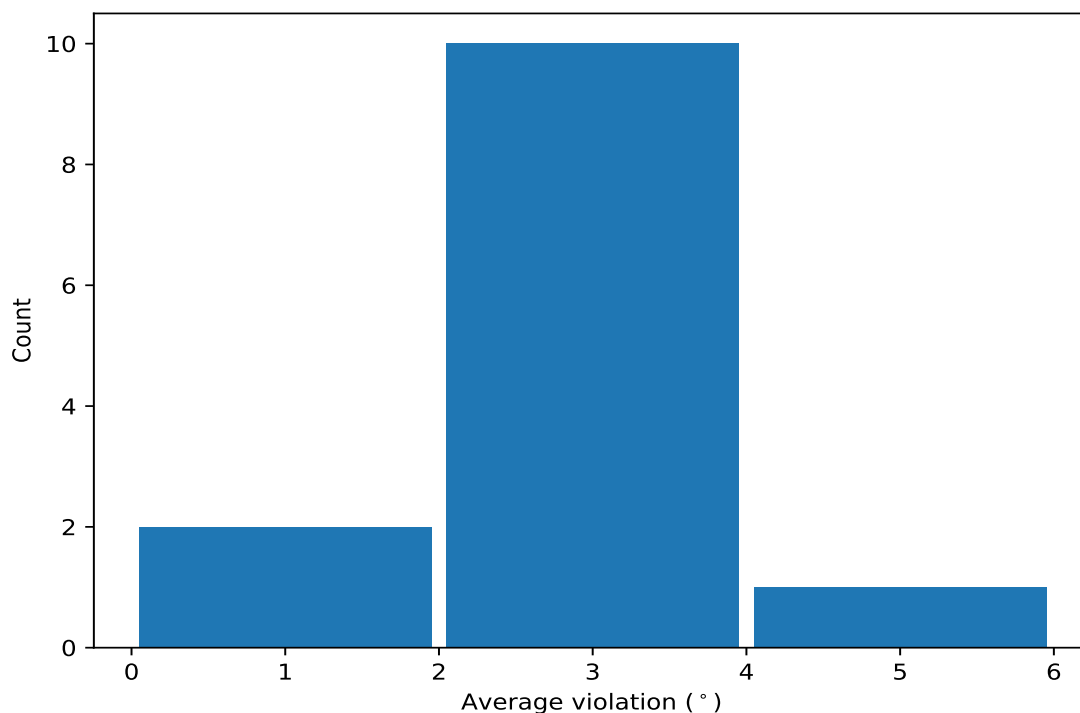| Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count[1]	%
0	0	0	43	95.6
0	0	0	44	97.8
0	0	0	45	100.0

[1] Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble ⓘ
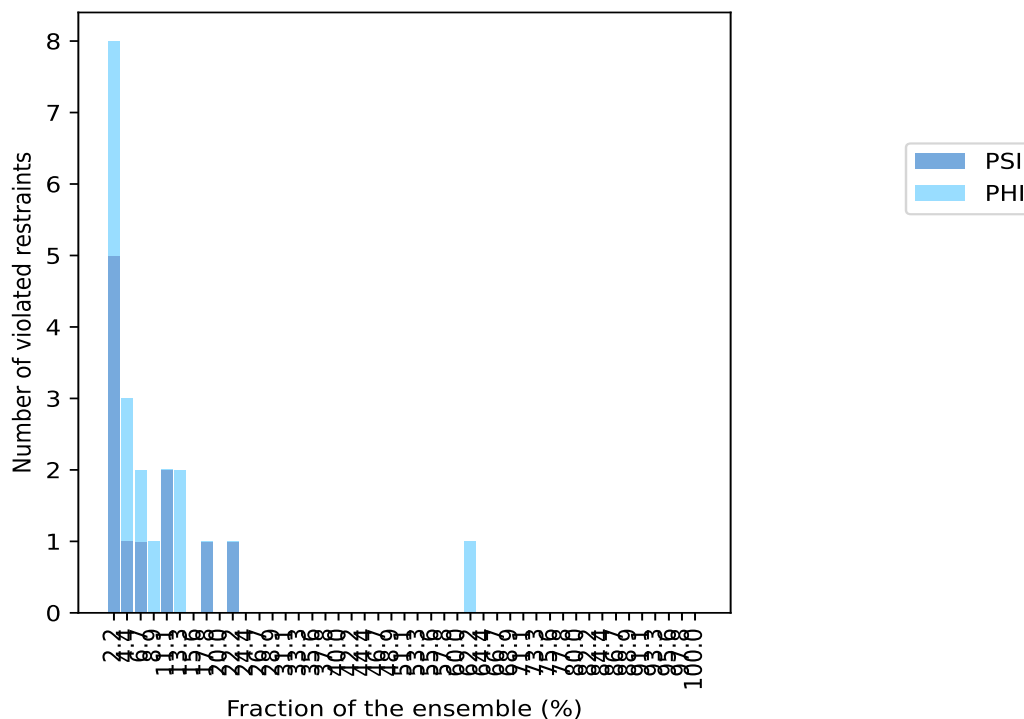
10.4 Most violated dihedral-angle restraints in the ensemble ⓘ

10.4.1 Histogram : Distribution of mean dihedral-angle violations ⓘ

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

10.4.2　Table: Most violated dihedral-angle restraints ⓘ

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models[1]	Mean	SD[2]	Median
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	28	3.68	1.34	4.35
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	10	2.96	0.94	3.25
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	8	2.58	1.24	2.35
(1,3)	1:A:3:GLN:C	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	6	3.42	1.22	3.75
(1,119)	1:A:63:ALA:C	1:A:64:ALA:N	1:A:64:ALA:CA	1:A:64:ALA:C	6	2.85	1.08	2.5
(1,12)	1:A:8:MET:N	1:A:8:MET:CA	1:A:8:MET:C	1:A:9:ALA:N	5	2.68	0.95	2.1
(1,8)	1:A:6:GLN:N	1:A:6:GLN:CA	1:A:6:GLN:C	1:A:7:ILE:N	5	2.58	0.9	2.4
(1,147)	2:B:168:LEU:C	2:B:169:GLU:N	2:B:169:GLU:CA	2:B:169:GLU:C	4	2.2	1.3	1.65
(1,33)	1:A:18:GLN:C	1:A:19:PHE:N	1:A:19:PHE:CA	1:A:19:PHE:C	3	3.73	1.44	4.7
(1,86)	1:A:47:GLN:N	1:A:47:GLN:CA	1:A:47:GLN:C	1:A:48:GLN:N	3	1.57	0.29	1.6
(1,55)	1:A:31:TYR:C	1:A:32:GLU:N	1:A:32:GLU:CA	1:A:32:GLU:C	2	4.25	0.45	4.25
(1,18)	1:A:11:LEU:N	1:A:11:LEU:CA	1:A:11:LEU:C	1:A:12:ASN:N	2	3.5	1.0	3.5
(1,153)	2:B:171:VAL:C	2:B:172:LYS:N	2:B:172:LYS:CA	2:B:172:LYS:C	2	1.55	0.05	1.55

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

10.5 All violated dihedral-angle restraints ⓘ

10.5.1 Histogram : Distribution of violations ⓘ

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.
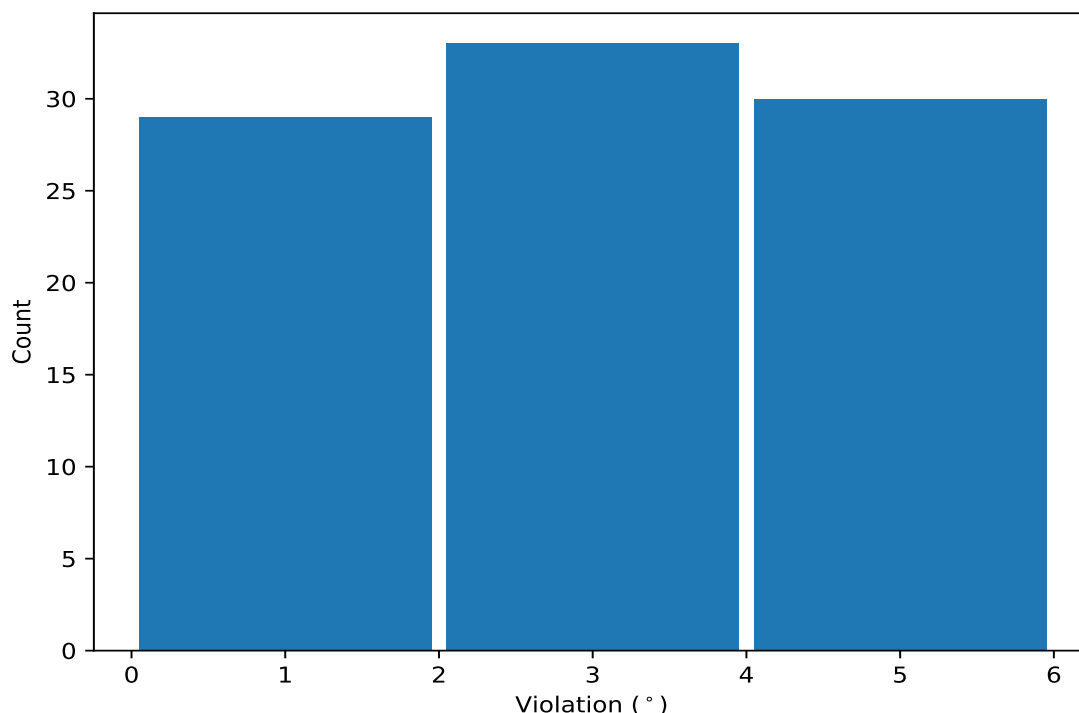
10.5.2 Table: All violated dihedral-angle restraints ⓘ

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

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,3)	1:A:3:GLN:C	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	9	4.9
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	1	4.9
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	2	4.9
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	7	4.9
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	12	4.9
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	29	4.9
(1,33)	1:A:18:GLN:C	1:A:19:PHE:N	1:A:19:PHE:CA	1:A:19:PHE:C	17	4.8
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	5	4.8
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	6	4.8
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	8	4.8
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	15	4.8
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	44	4.8
(1,119)	1:A:63:ALA:C	1:A:64:ALA:N	1:A:64:ALA:CA	1:A:64:ALA:C	41	4.8
(1,55)	1:A:31:TYR:C	1:A:32:GLU:N	1:A:32:GLU:CA	1:A:32:GLU:C	13	4.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,33)	1:A:18:GLN:C	1:A:19:PHE:N	1:A:19:PHE:CA	1:A:19:PHE:C	44	4.7
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	13	4.6
(1,126)	2:B:158:GLU:N	2:B:158:GLU:CA	2:B:158:GLU:C	2:B:159:VAL:N	31	4.6
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	35	4.5
(1,3)	1:A:3:GLN:C	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	13	4.5
(1,18)	1:A:11:LEU:N	1:A:11:LEU:CA	1:A:11:LEU:C	1:A:12:ASN:N	42	4.5
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	21	4.4
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	34	4.4
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	42	4.4
(1,147)	2:B:168:LEU:C	2:B:169:GLU:N	2:B:169:GLU:CA	2:B:169:GLU:C	16	4.4
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	19	4.3
(1,12)	1:A:8:MET:N	1:A:8:MET:CA	1:A:8:MET:C	1:A:9:ALA:N	23	4.2
(1,8)	1:A:6:GLN:N	1:A:6:GLN:CA	1:A:6:GLN:C	1:A:7:ILE:N	45	4.1
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	41	4.1
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	18	4.1
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	16	4.0
(1,3)	1:A:3:GLN:C	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	22	3.9
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	35	3.9
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	45	3.9
(1,55)	1:A:31:TYR:C	1:A:32:GLU:N	1:A:32:GLU:CA	1:A:32:GLU:C	15	3.8
(1,29)	1:A:16:ALA:C	1:A:17:VAL:N	1:A:17:VAL:CA	1:A:17:VAL:C	45	3.8
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	22	3.8
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	37	3.8
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	44	3.8
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	37	3.7
(1,3)	1:A:3:GLN:C	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	32	3.6
(1,119)	1:A:63:ALA:C	1:A:64:ALA:N	1:A:64:ALA:CA	1:A:64:ALA:C	44	3.6
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	23	3.5
(1,125)	2:B:157:PRO:C	2:B:158:GLU:N	2:B:158:GLU:CA	2:B:158:GLU:C	20	3.5
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	28	3.4
(1,12)	1:A:8:MET:N	1:A:8:MET:CA	1:A:8:MET:C	1:A:9:ALA:N	44	3.4
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	22	3.3
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	38	2.8
(1,8)	1:A:6:GLN:N	1:A:6:GLN:CA	1:A:6:GLN:C	1:A:7:ILE:N	44	2.7
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	41	2.7
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	39	2.6
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	33	2.6
(1,18)	1:A:11:LEU:N	1:A:11:LEU:CA	1:A:11:LEU:C	1:A:12:ASN:N	38	2.5
(1,119)	1:A:63:ALA:C	1:A:64:ALA:N	1:A:64:ALA:CA	1:A:64:ALA:C	14	2.5
(1,119)	1:A:63:ALA:C	1:A:64:ALA:N	1:A:64:ALA:CA	1:A:64:ALA:C	19	2.5
(1,8)	1:A:6:GLN:N	1:A:6:GLN:CA	1:A:6:GLN:C	1:A:7:ILE:N	28	2.4
(1,8)	1:A:6:GLN:N	1:A:6:GLN:CA	1:A:6:GLN:C	1:A:7:ILE:N	30	2.4
(1,63)	1:A:35:GLN:C	1:A:36:ILE:N	1:A:36:ILE:CA	1:A:36:ILE:C	44	2.4
(1,119)	1:A:63:ALA:C	1:A:64:ALA:N	1:A:64:ALA:CA	1:A:64:ALA:C	28	2.3
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	24	2.2
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	45	2.1
(1,24)	1:A:14:GLN:N	1:A:14:GLN:CA	1:A:14:GLN:C	1:A:15:THR:N	45	2.1
(1,12)	1:A:8:MET:N	1:A:8:MET:CA	1:A:8:MET:C	1:A:9:ALA:N	19	2.1
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	31	2.0
(1,86)	1:A:47:GLN:N	1:A:47:GLN:CA	1:A:47:GLN:C	1:A:48:GLN:N	40	1.9
(1,3)	1:A:3:GLN:C	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	24	1.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,147)	2:B:168:LEU:C	2:B:169:GLU:N	2:B:169:GLU:CA	2:B:169:GLU:C	8	1.9
(1,12)	1:A:8:MET:N	1:A:8:MET:CA	1:A:8:MET:C	1:A:9:ALA:N	41	1.9
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	28	1.8
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	42	1.8
(1,12)	1:A:8:MET:N	1:A:8:MET:CA	1:A:8:MET:C	1:A:9:ALA:N	22	1.8
(1,33)	1:A:18:GLN:C	1:A:19:PHE:N	1:A:19:PHE:CA	1:A:19:PHE:C	45	1.7
(1,3)	1:A:3:GLN:C	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	18	1.7
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	33	1.7
(1,86)	1:A:47:GLN:N	1:A:47:GLN:CA	1:A:47:GLN:C	1:A:48:GLN:N	43	1.6
(1,153)	2:B:171:VAL:C	2:B:172:LYS:N	2:B:172:LYS:CA	2:B:172:LYS:C	35	1.6
(1,50)	1:A:29:GLY:N	1:A:29:GLY:CA	1:A:29:GLY:C	1:A:30:ASN:N	41	1.5
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	25	1.5
(1,153)	2:B:171:VAL:C	2:B:172:LYS:N	2:B:172:LYS:CA	2:B:172:LYS:C	38	1.5
(1,138)	2:B:164:CYS:N	2:B:164:CYS:CA	2:B:164:CYS:C	2:B:165:GLN:N	40	1.5
(1,147)	2:B:168:LEU:C	2:B:169:GLU:N	2:B:169:GLU:CA	2:B:169:GLU:C	14	1.4
(1,119)	1:A:63:ALA:C	1:A:64:ALA:N	1:A:64:ALA:CA	1:A:64:ALA:C	37	1.4
(1,118)	1:A:63:ALA:N	1:A:63:ALA:CA	1:A:63:ALA:C	1:A:64:ALA:N	14	1.4
(1,8)	1:A:6:GLN:N	1:A:6:GLN:CA	1:A:6:GLN:C	1:A:7:ILE:N	23	1.3
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	33	1.3
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	40	1.3
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	4	1.3
(1,86)	1:A:47:GLN:N	1:A:47:GLN:CA	1:A:47:GLN:C	1:A:48:GLN:N	25	1.2
(1,4)	1:A:4:LYS:N	1:A:4:LYS:CA	1:A:4:LYS:C	1:A:5:GLN:N	42	1.2
(1,28)	1:A:16:ALA:N	1:A:16:ALA:CA	1:A:16:ALA:C	1:A:17:VAL:N	44	1.2
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	17	1.2
(1,155)	2:B:172:LYS:C	2:B:173:LEU:N	2:B:173:LEU:CA	2:B:173:LEU:C	3	1.1
(1,147)	2:B:168:LEU:C	2:B:169:GLU:N	2:B:169:GLU:CA	2:B:169:GLU:C	1	1.1