Full wwPDB NMR Structure Validation Report (i)

Jun 16, 2024 – 01:15 AM EDT

PDB ID	:	2N7H
BMRB ID	:	25334
Title	:	Hybrid structure of the Type 1 Pilus of Uropathogenic E.coli
Authors	:	Habenstein, B.; Loquet, A.; Giller, K.; Vasa, S.; Becker, S.; Habeck, M.; Lange, A.
Deposited on	:	2015-09-11

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

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

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

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

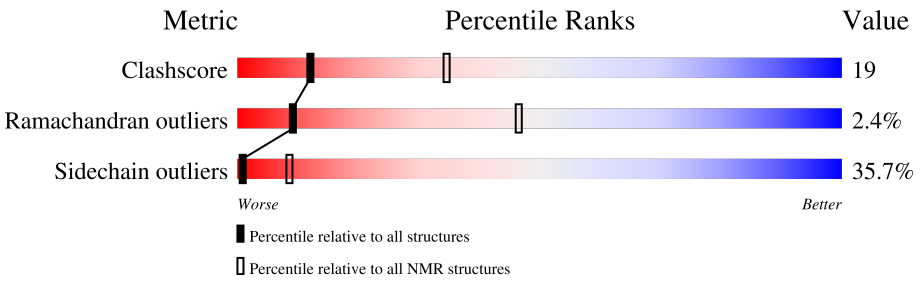
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
SOLID-STATE NMR

The overall completeness of chemical shifts assignment is 7%.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >=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	160	51% 43% • • •
1	B	160	49% 46% 5% •
1	C	160	49% 46% • •
1	D	160	46% 49% • •
1	E	160	46% 49% • •
1	F	160	51% 44% • •

2 Ensemble composition and analysis (i)

This entry contains 10 models. Model 3 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:2-A:159, B:1-B:159, C:1-C:159, D:1-D:159, E:1-E:159, F:1-F:159 (953)	0.90	3

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 2 clusters and 2 single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 4, 8, 10
2	7, 9
Single-model clusters	5; 6

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 13074 atoms, of which 6402 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called FimA.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	159	2179	680	1067	196	234	2	0
1	B	159	2179	680	1067	196	234	2	0
1	C	159	2179	680	1067	196	234	2	0
1	D	159	2179	680	1067	196	234	2	0
1	E	159	2179	680	1067	196	234	2	0
1	F	159	2179	680	1067	196	234	2	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	MET	-	EXPRESSION TAG	UNP Q547G4
B	0	MET	-	EXPRESSION TAG	UNP Q547G4
C	0	MET	-	EXPRESSION TAG	UNP Q547G4
D	0	MET	-	EXPRESSION TAG	UNP Q547G4
E	0	MET	-	EXPRESSION TAG	UNP Q547G4
F	0	MET	-	EXPRESSION TAG	UNP Q547G4

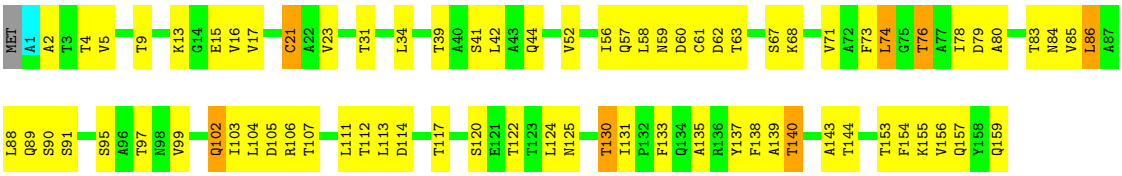
4 Residue-property plots (i)

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.

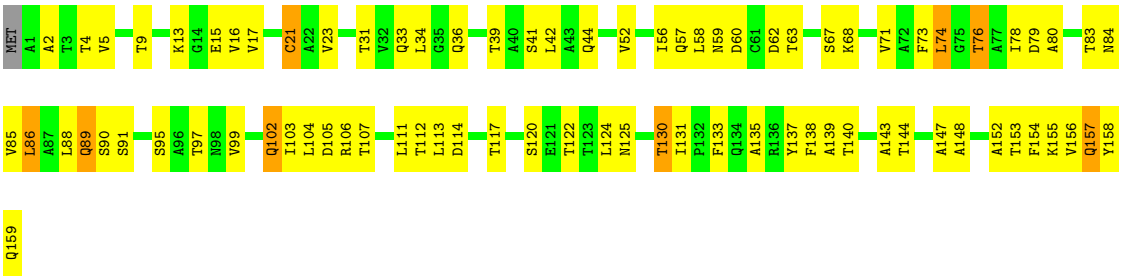
• Molecule 1: FimA

Chain A: 51% 43%



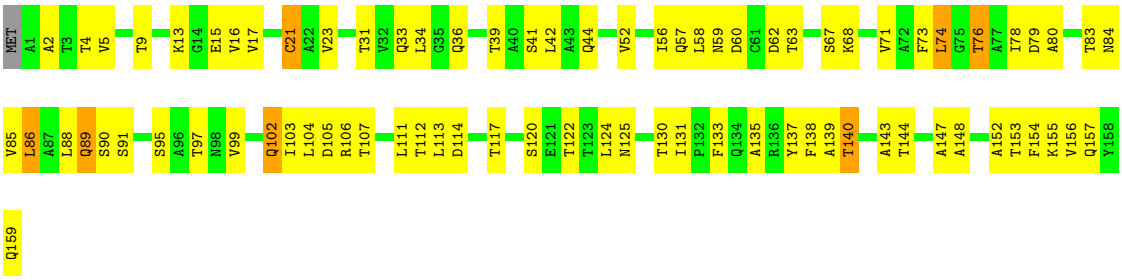
• Molecule 1: FimA

Chain B: 49% 46% 5%



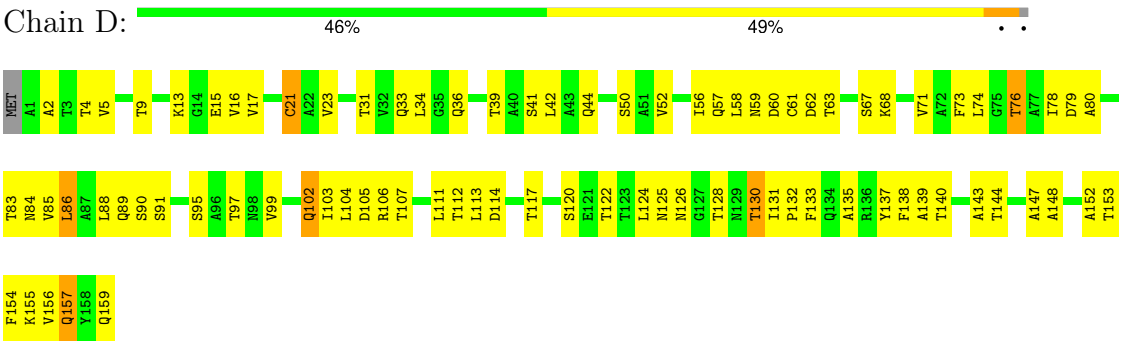
• Molecule 1: FimA

Chain C: 49% 46%



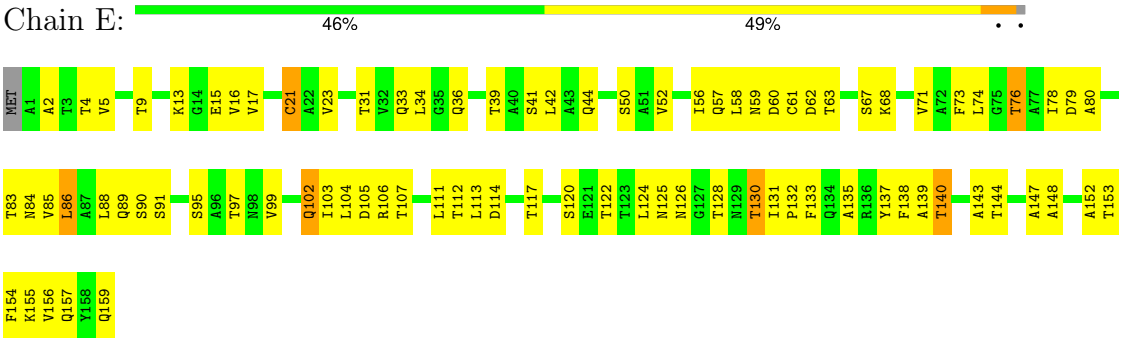
• Molecule 1: FimA

Chain D:



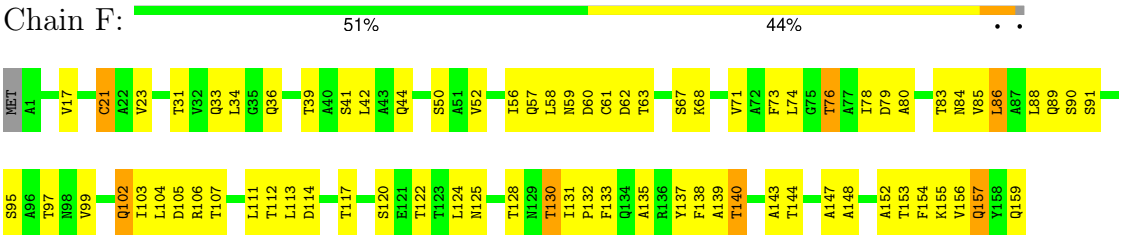
• Molecule 1: FimA

Chain E:



• Molecule 1: FimA

Chain F:



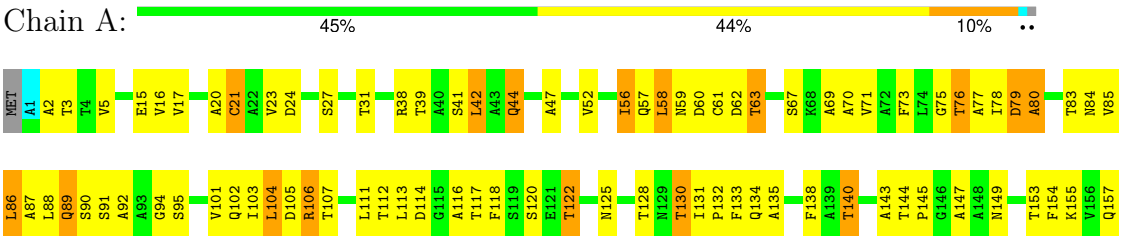
4.2 Scores per residue for each member of the ensemble

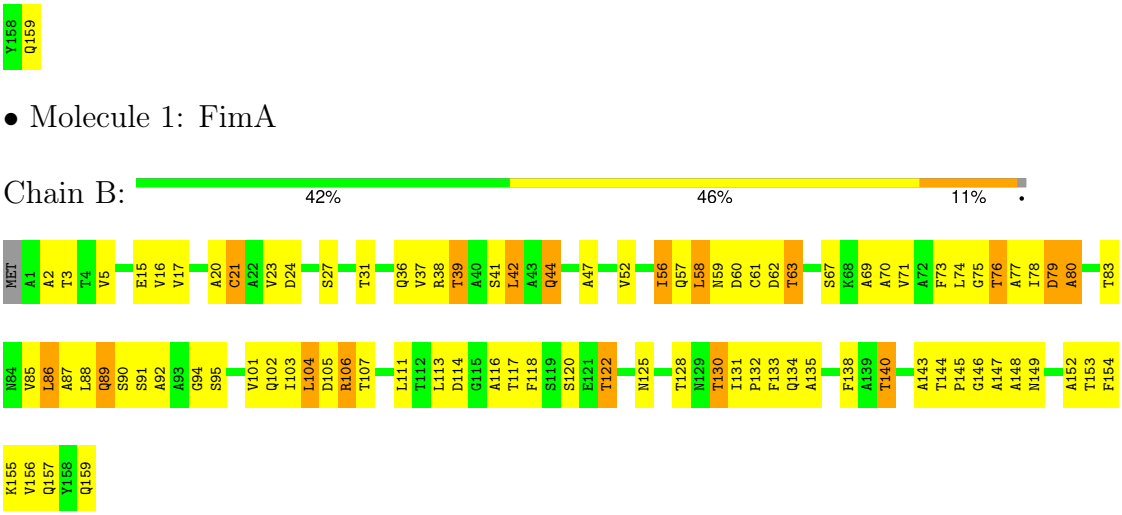
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: FimA

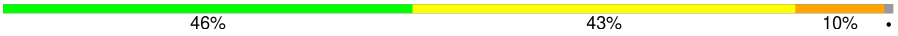
Chain A:

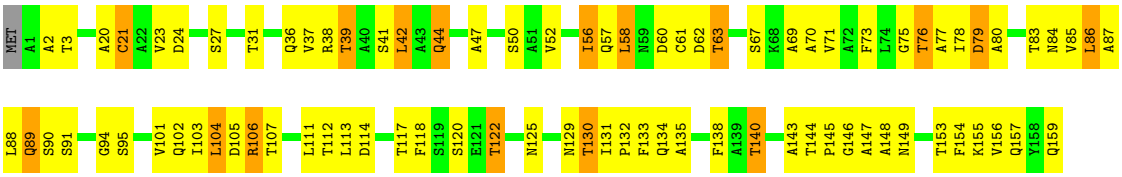



Y158
Q159
• Molecule 1: FimA
Chain B:
42%
46%
11%
MET A1 A2 T3 T4 V5 E15 V16 V17 A20 C21 A22 V23 D24 S27 T31 Q36 V37 R38 T39 A40 S41 L42 A43 Q44 A47 V52 I56 Q57 L58 N59 D60 C61 D62 T63 S67 K68 A69 A70 V71 A72 F73 L74 G75 T76 A77 I78 D79 A80 T83
N84 V85 L86 A87 L88 Q89 S90 S91 A92 A93 G94 S95 V101 Q102 I103 L104 D105 R106 T107 L111 T112 L113 D114 G115 A116 T117 F118 S119 S120 E121 T122 N125 T128 N129 T130 I131 P132 F133 Q134 A135 F138 A139 T140 A143 T144 P145 G146 A147 A148 N149 A152 T153 F154
K155 V156 Q157 Y158 Q159
• Molecule 1: FimA
Chain C:
45%
44%
11%
MET A1 A2 T3 T4 V5 E15 V16 V17 A20 C21 A22 V23 D24 S27 T31 Q36 V37 R38 T39 A40 S41 L42 A43 Q44 A47 V52 I56 Q57 L58 N59 D60 C61 D62 T63 S67 K68 A69 A70 V71 A72 F73 L74 G75 T76 A77 I78 D79 A80 T83
N84 V85 L86 A87 L88 Q89 S90 S91 A92 A93 G94 S95 V101 Q102 I103 L104 D105 R106 T107 L111 T112 L113 D114 G115 A116 T117 F118 S119 S120 E121 T122 N125 T130 I131 P132 F133 Q134 A135 F138 A139 T140 A143 T144 P145 G146 A147 A148 N149 T153 F154 K155 V156
Q159
• Molecule 1: FimA
Chain D:
42%
48%
9%
MET A1 A2 T3 T4 V5 E15 V16 V17 A20 C21 A22 V23 D24 S27 T31 Q36 V37 R38 T39 A40 S41 L42 A43 Q44 A47 S50 A51 V52 I56 Q57 L58 N59 D60 C61 D62 T63 S67 K68 A69 A70 V71 A72 F73 L74 G75 T76 A77 I78 D79 A80
T83 N84 V85 L86 A87 L88 Q89 S90 S91 G94 S95 V101 Q102 I103 L104 D105 R106 T107 L111 T112 L113 D114 T117 F118 S119 S120 E121 T122 N125 T128 N129 T130 I131 P132 F133 Q134 A135 F138 A139 T140 A143 T144 P145 G146 A147 A148 N149 T153 F154 K155
V156 Q157 Y158 Q159
• Molecule 1: FimA
Chain E:
44%
46%
9%
MET A1 A2 T3 T4 V5 E15 V16 V17 A20 C21 A22 V23 D24 S27 T31 Q36 V37 R38 T39 A40 S41 L42 A43 Q44 A47 S50 A51 V52 I56 Q57 L58 N59 D60 C61 D62 T63 S67 K68 A69 A70 V71 A72 F73 L74 G75 T76 A77 I78 D79 A80
T83 N84 V85 L86 A87 L88 Q89 S90 S91 G94 S95 V101 Q102 I103 L104 D105 R106 T107 L111 T112 L113 D114 T117 F118 S119 S120 E121 T122 N125 T128 N129 T130 I131 P132 F133 Q134 A135 F138 A139 T140 A143 T144 P145 G146 A147 A148 N149 T153 F154 K155

• Molecule 1: FimA

Chain F:

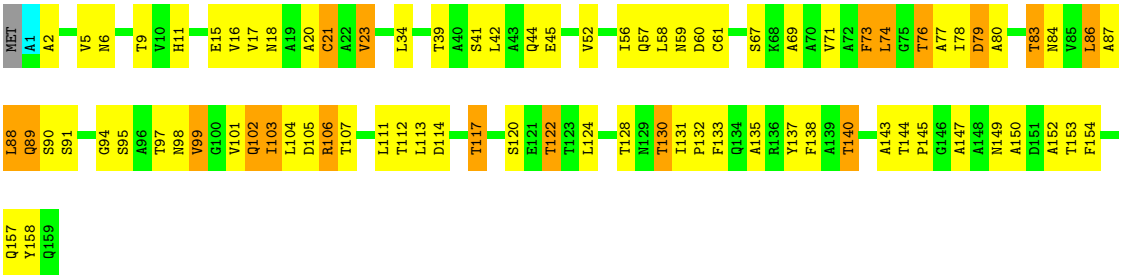




4.2.2 Score per residue for model 2

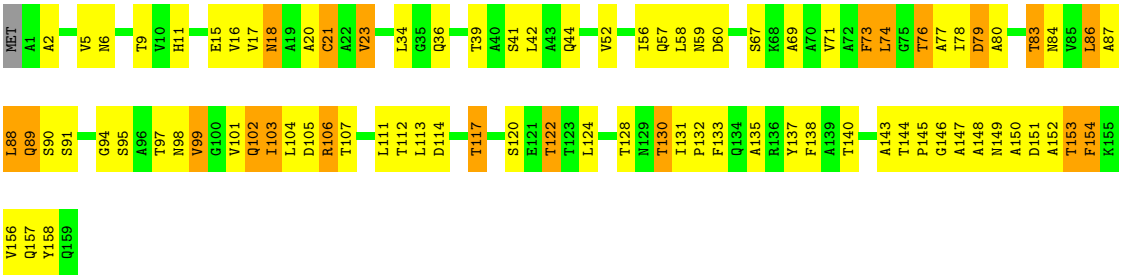
• Molecule 1: FimA

Chain A:



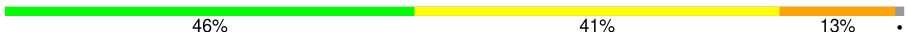
• Molecule 1: FimA

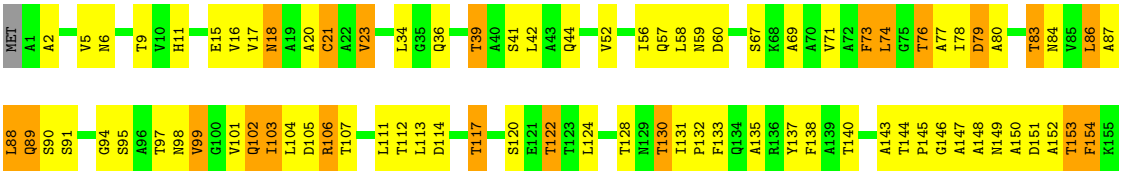
Chain B:

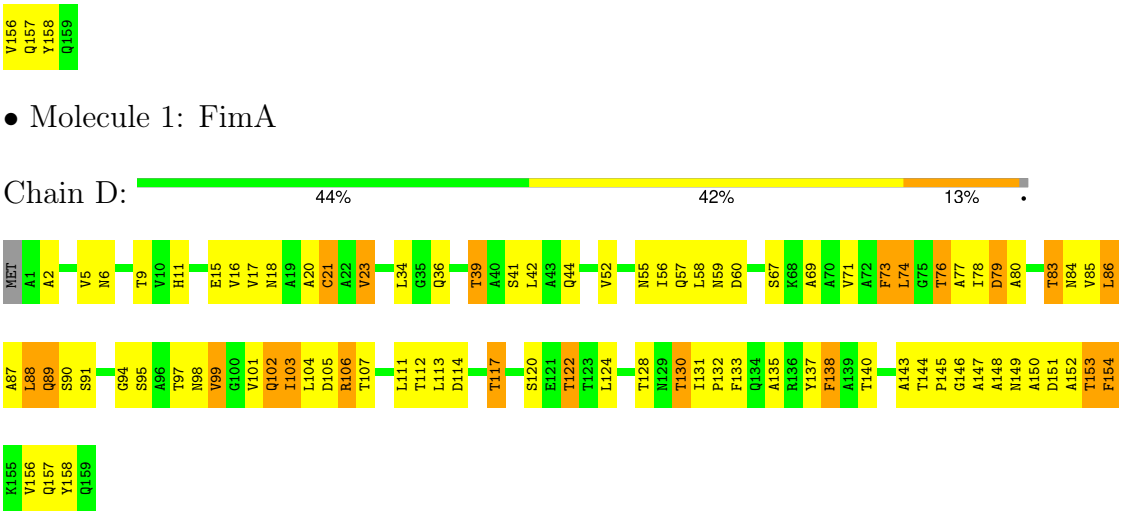


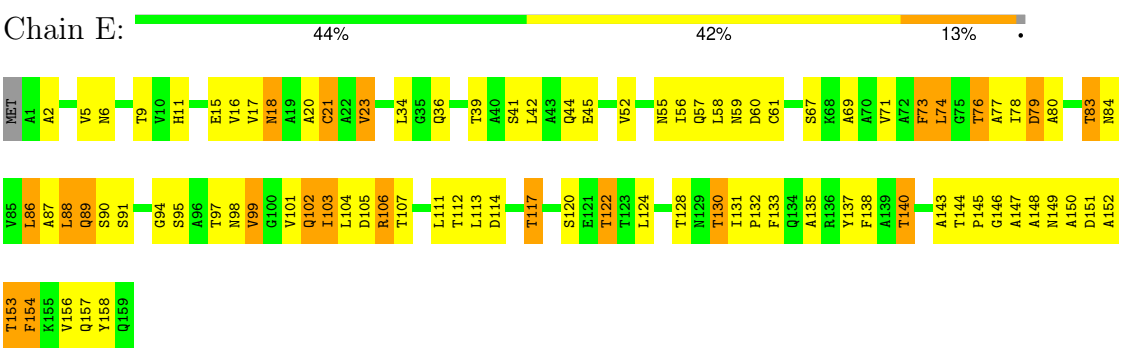
• Molecule 1: FimA

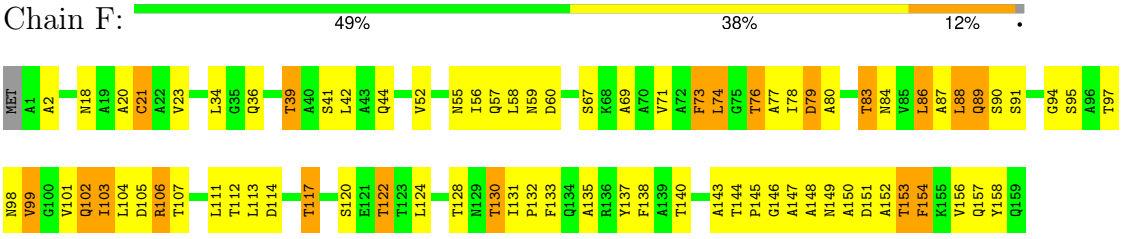
Chain C:



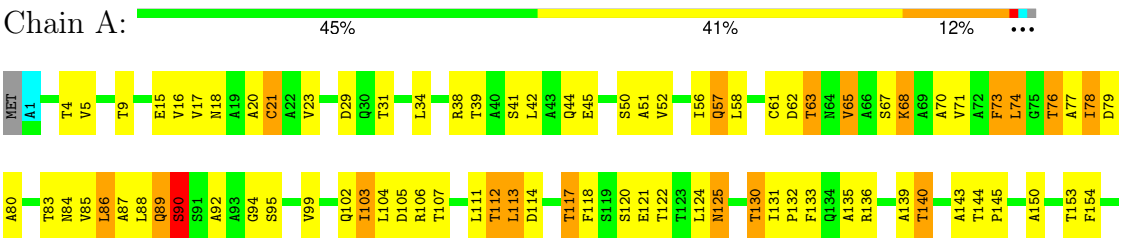








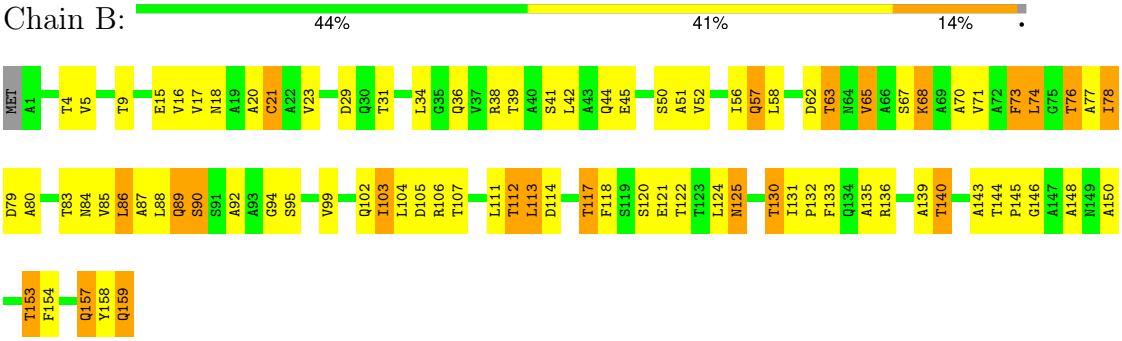
4.2.3 Score per residue for model 3 (medoid)



Q157 Y158 Q159

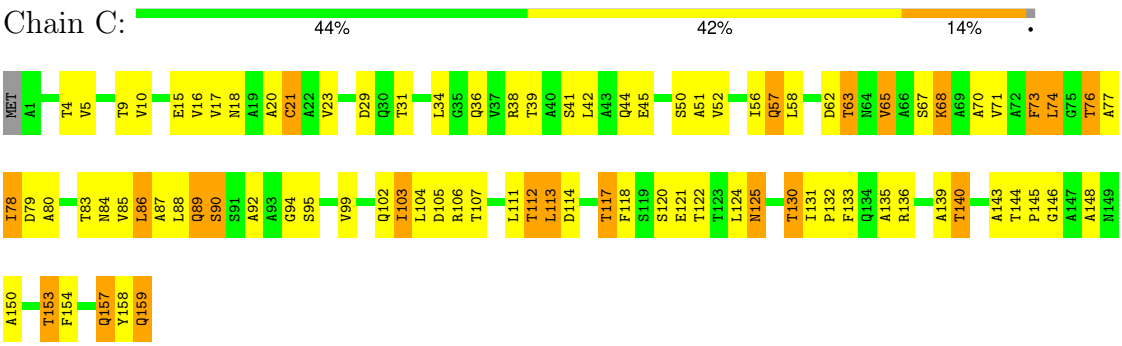
- Molecule 1: FimA

Chain B:



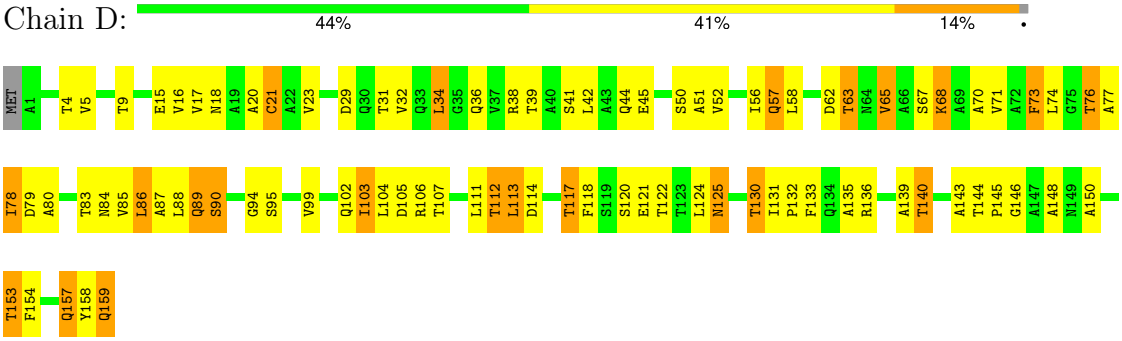
- Molecule 1: FimA

Chain C:



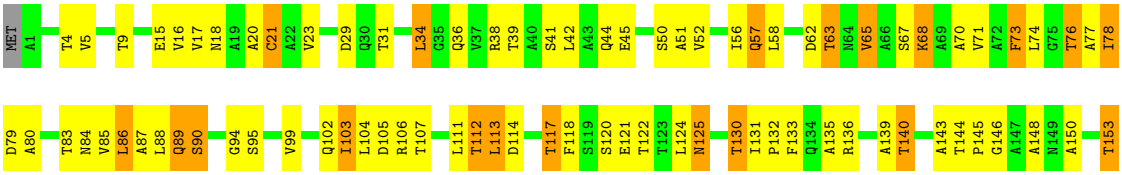
- Molecule 1: FimA

Chain D:



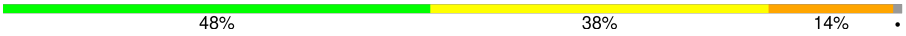
- Molecule 1: FimA

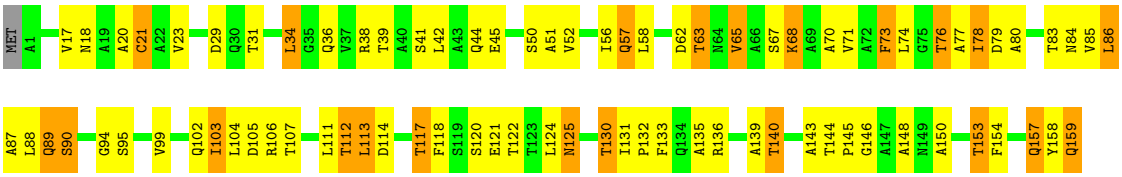
Chain E:



• Molecule 1: FimA

Chain F:

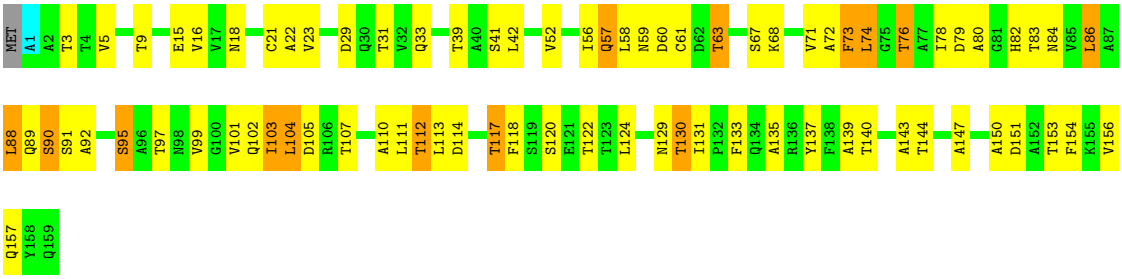




4.2.4 Score per residue for model 4

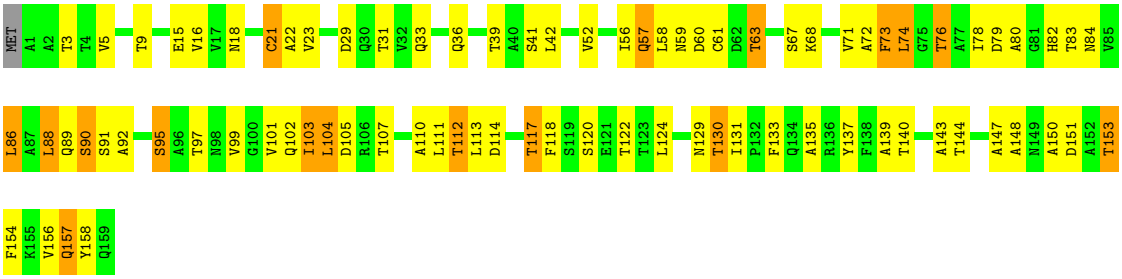
• Molecule 1: FimA

Chain A:



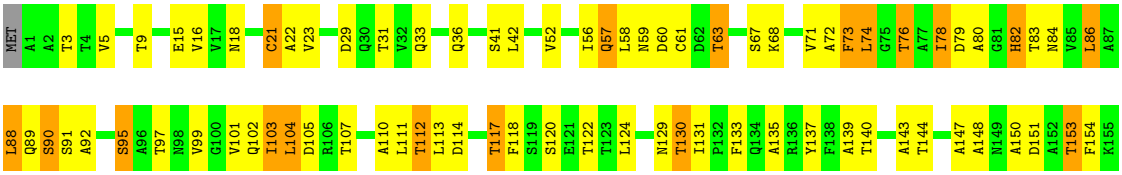
• Molecule 1: FimA

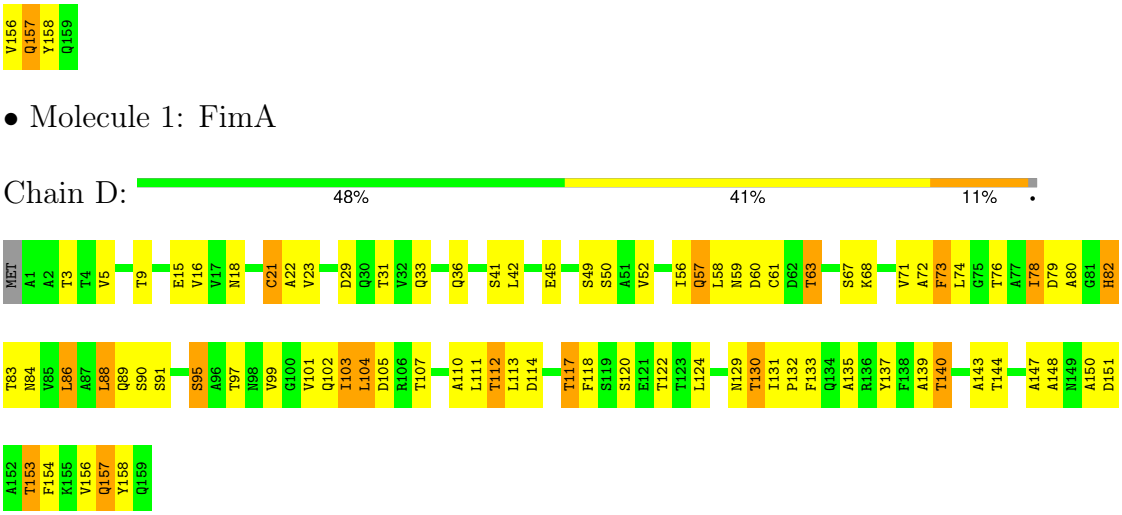
Chain B:

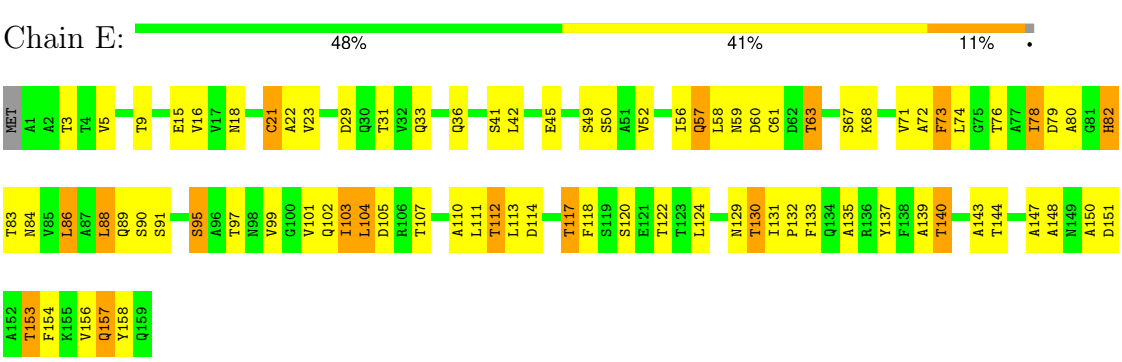


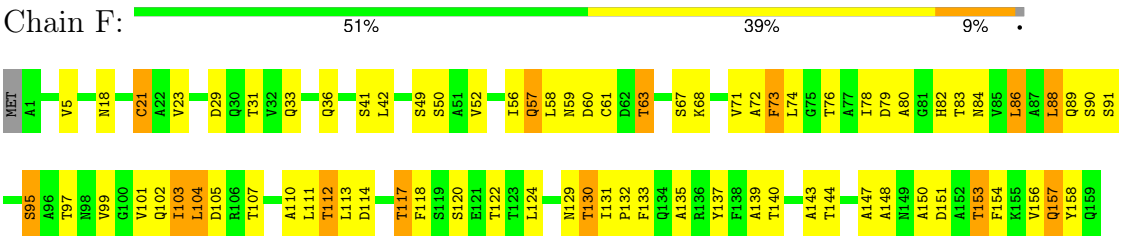
• Molecule 1: FimA

Chain C:



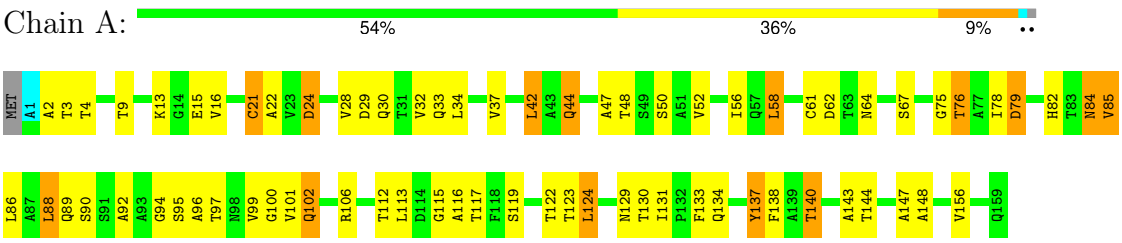






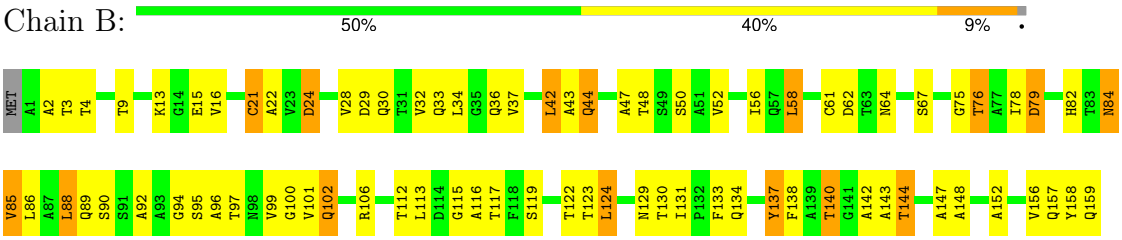
4.2.5 Score per residue for model 5

• Molecule 1: FimA



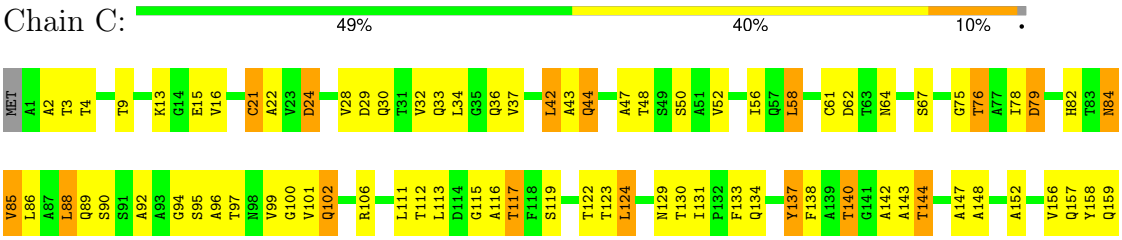
- Molecule 1: FimA

Chain B:



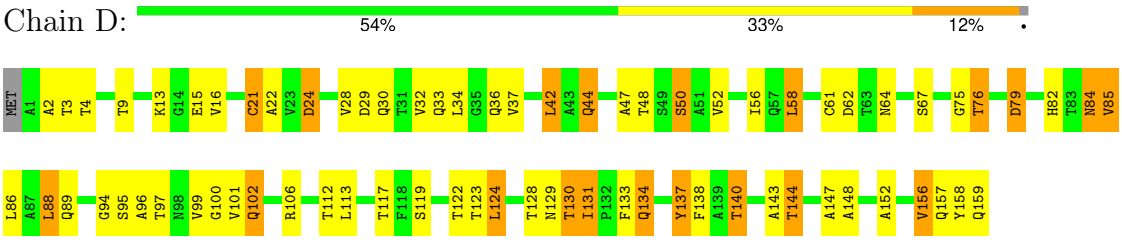
- Molecule 1: FimA

Chain C:



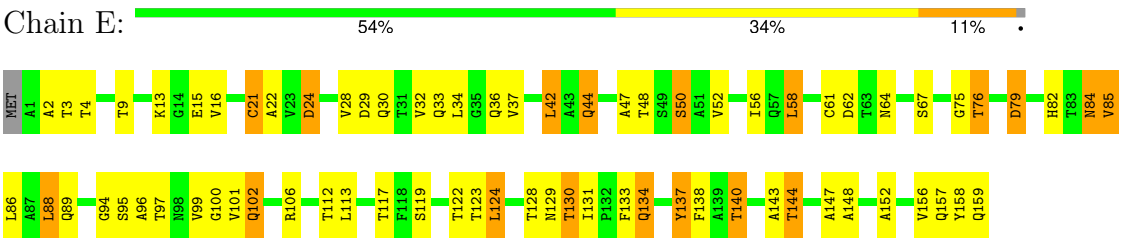
- Molecule 1: FimA

Chain D:



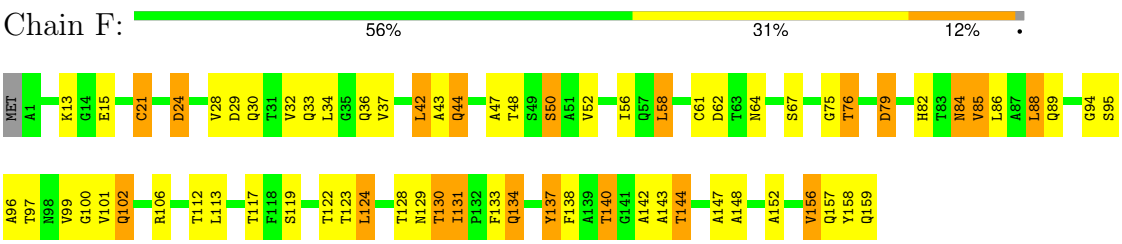
- Molecule 1: FimA

Chain E:



- Molecule 1: FimA

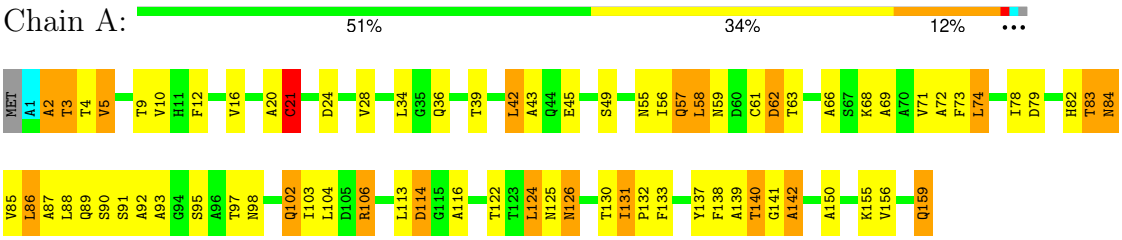
Chain F:



4.2.6 Score per residue for model 6

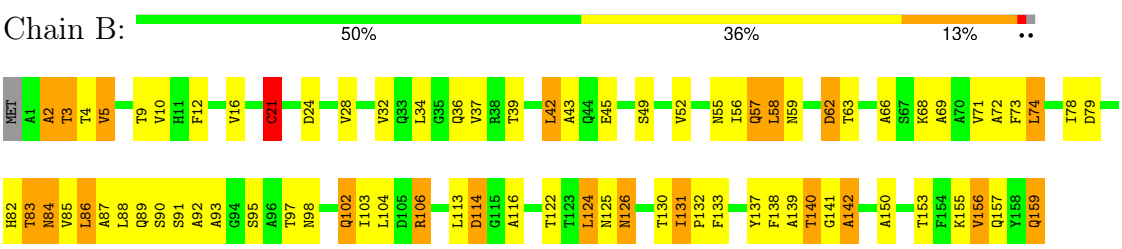
- Molecule 1: FimA

Chain A:



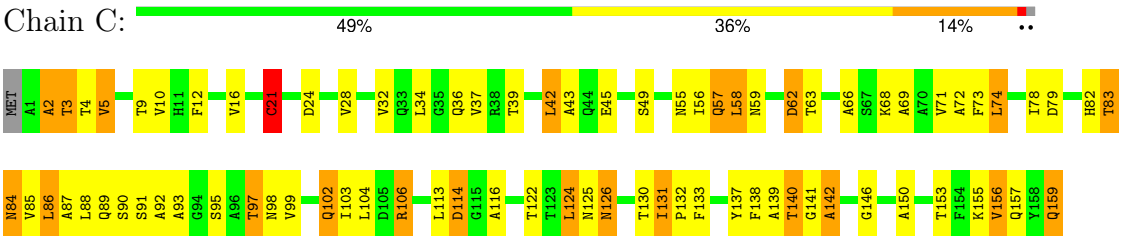
- Molecule 1: FimA

Chain B:



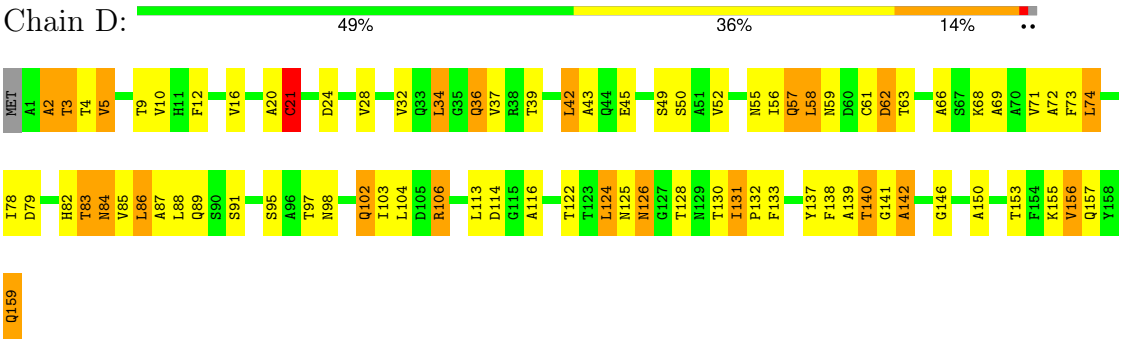
- Molecule 1: FimA

Chain C:



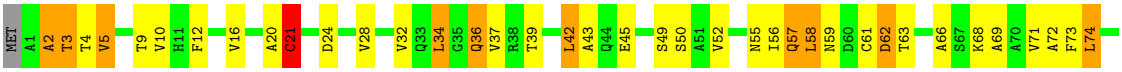
- Molecule 1: FimA

Chain D:



- Molecule 1: FimA

Chain E:



I78 D79 H82 T83 N84 V85 L86 A87 L88 Q89 S90 S91 S95 A96 T97 N98 Q102 I103 L104 D105 R106 L113 D114 G115 A116 T122 T123 L124 N125 N126 G127 T128 N129 T130 I131 P132 F133 Y137 F138 A139 T140 G141 A142 G146 A150 T153 F154 K155 V156 Q157 Y158

Q159

- Molecule 1: FimA

Chain F: 50% 36% 12% ••

MET A1 A2 T3 T4 V5 V10 A20 C21 D24 V28 V32 Q33 L34 G35 Q36 V37 R38 T39 L42 A43 Q44 E45 S49 S50 A51 V52 N55 I56 Q57 L58 N59 D60 C61 D62 T63 A66 S67 K68 A69 A70 V71 A72 F73 L74 I78 D79 H82 T83

N84 V85 L86 A87 L88 Q89 S90 S91 S95 A96 T97 N98 V99 Q102 I103 L104 D105 R106 L113 D114 G115 A116 T122 T123 L124 N125 N126 G127 T128 N129 T130 I131 P132 F133 Y137 F138 A139 T140 G141 A142 G146 A150 T153 F154 K155 V156 Q157 Y158 Q159

4.2.7 Score per residue for model 7

- Molecule 1: FimA

Chain A: 50% 39% 9% ••

MET A1 A2 T3 T4 V5 G8 F12 K13 V16 V17 N18 A19 A20 C21 A22 V23 D24 S27 V28 T31 L34 R38 S41 L42 A43 Q44 V52 G53 F54 N55 I56 Q57 L58 N59 D60 T63 N64 V65 A66 A70 V71 A72 F73 L74 G75 T76 A77 T78

D79 H82 V85 L86 A87 L88 Q89 S90 S91 S95 A96 T97 N98 V99 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 S119 S120 L124 N125 N126 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 T140 G141 A142 A152 T153 F154 K155 V156 Q157 Y158 Q159

- Molecule 1: FimA

Chain B: 46% 42% 11% •

MET A1 A2 T3 T4 V5 N6 G7 G8 F12 K13 V16 V17 N18 A19 A20 C21 A22 V23 D24 S27 V28 T31 V32 Q33 L34 R38 T39 A40 S41 L42 A43 Q44 V52 G53 F54 N55 I56 Q57 L58 N59 D60 T63 N64 V65 A66 A70 V71 A72 F73 L74 G75

T76 A77 T78 D79 H82 V85 L86 A87 L88 Q89 S90 S91 S95 A96 T97 N98 V99 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 T117 F118 S119 S120 L124 N125 N126 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 T140 G141 A142 A143 T144 A152 T153

F154 K155 V156 Q157 Y158 Q159

- Molecule 1: FimA

Chain C: 48% 41% 11% •

MET A1 A2 T3 T4 V5 G8 F12 K13 V16 V17 N18 A19 A20 C21 A22 V23 D24 S27 V28 T31 V32 Q33 L34 R38 T39 A40 S41 L42 A43 Q44 V52 G53 F54 N55 I56 Q57 L58 N59 D60 T63 N64 V65 A66 A70 V71 A72 F73 L74 G75 T76

A77 T78 D79 H82 V85 L86 A87 L88 Q89 S90 S91 S95 A96 T97 N98 V99 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 S119 S120 L124 N125 N126 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 T140 G141 A142 A143 T144 A152 T153 F154 K155 V156

Q157 Y158 Q159

- Molecule 1: FimA

Chain D:

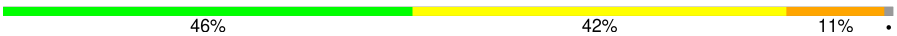
MET A1 A2 T3 T4 V5 G8 F12 K13 V16 V17 N18 A19 A20 C21 A22 V23 D24 S27 V28 T31 V32 Q33 L34 R38 T39 A40 S41 L42 A43 Q44 V52 G53 F54 N55 I56 Q57 L58 N59 D60 T63 N64 V65 A66 A70 V71 A72 F73 L74 G75 T76

D79 H82 V85 L86 A87 L88 Q89 S90 S91 S95 A96 T97 N98 V99 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 S119 S120 L124 N125 N126 G127 T128 N129 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 T140 G141 A142 A143 T144 A152 T153 F154 K155

V156 Q157 Y158 Q159

- Molecule 1: FimA

Chain E:



MET A1 A2 T3 T4 V5 N6 G7 G8 F12 K13 V16 V17 N18 A19 A20 C21 A22 V23 D24 S27 V28 T31 V32 Q33 L34 R38 T39 A40 S41 L42 A43 Q44 V52 G53 F54 N55 I56 Q57 L58 N59 D60 T63 N64 V65 A66 A70 V71 A72 F73 L74 G75

T76 D79 H82 V85 L86 A87 L88 Q89 S90 S91 S95 A96 T97 N98 V99 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 T117 F118 S119 S120 L124 N125 N126 G127 T128 N129 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 T140 G141 A142 A143 T144 A152

T153 F154 K155 V156 Q157 Y158 Q159

- Molecule 1: FimA

Chain F:

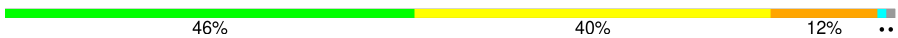
MET A1 A2 T3 T4 K13 V16 V17 N18 A19 A20 C21 A22 V23 D24 S27 V28 T31 V32 Q33 L34 R38 T39 A40 S41 L42 A43 Q44 V52 G53 F54 N55 I56 Q57 L58 N59 D60 T63 N64 V65 A66 A70 V71 A72 F73 L74 G75 T76 D79 H82

V85 L86 A87 L88 Q89 S90 S91 S95 A96 T97 N98 V99 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 S119 S120 L124 N125 N126 G127 T128 N129 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 T140 G141 A142 A143 T144 A152 T153 F154 K155 V156 Q157 Y158 Q159

4.2.8 Score per residue for model 8

- Molecule 1: FimA

Chain A:

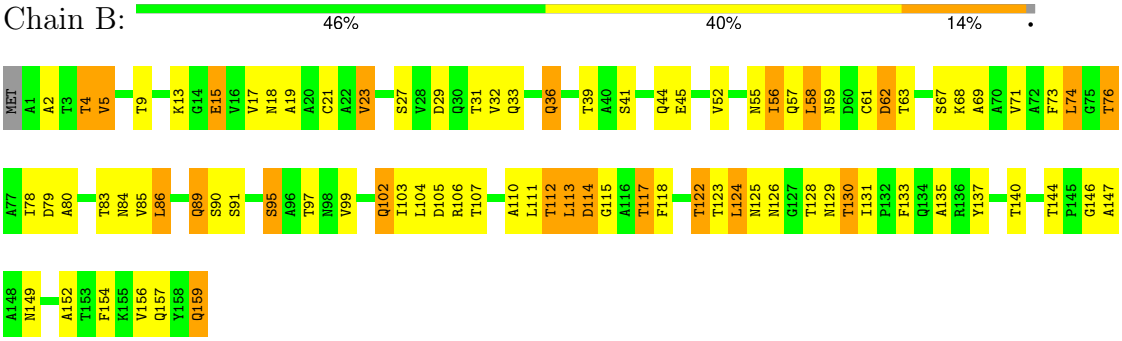


MET A1 A2 T3 T4 V5 T9 K13 G14 E15 V16 V17 N18 A19 A20 C21 A22 V23 S27 V28 D29 Q30 T31 V32 Q33 Q36 T39 A40 S41 Q44 E45 V52 N55 I56 Q57 L58 N59 D60 C61 D62 T63 S67 K68 A69 A70 V71 A72 F73 L74 G75 T76

A77 I78 D79 A80 T83 N84 V85 L86 Q89 S90 S91 S95 A96 T97 N98 V99 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 D114 G115 A116 T117 F118 T122 T123 L124 N125 N126 G127 T128 N129 T130 I131 P132 F133 Q134 A135 R136 Y137 T140 T144 N149

• Molecule 1: FimA

Chain B:

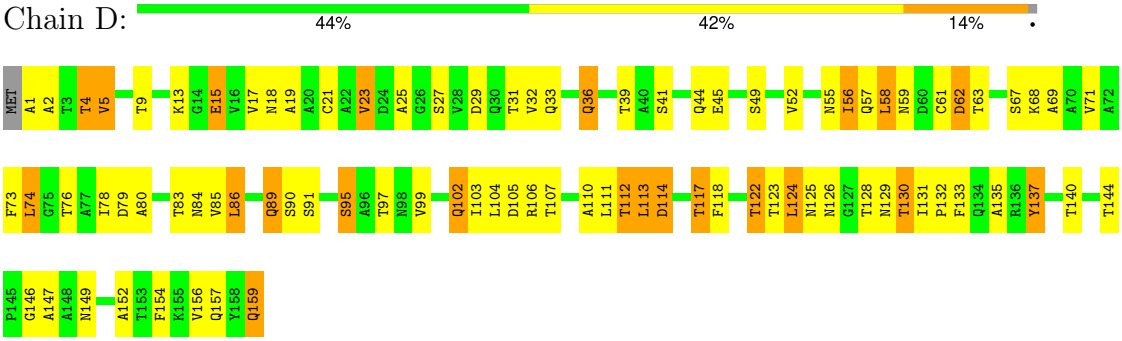


• Molecule 1: FimA

Chain C:

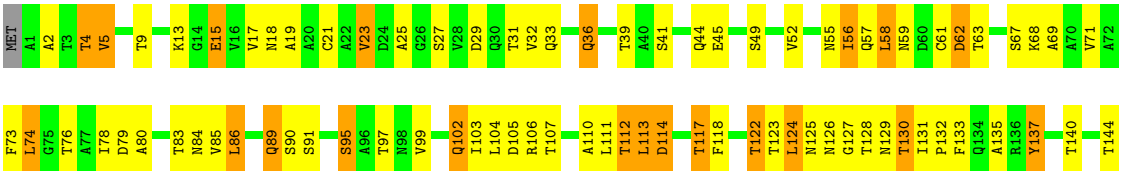
• Molecule 1: FimA

Chain D:



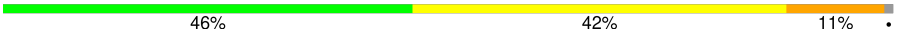
• Molecule 1: FimA

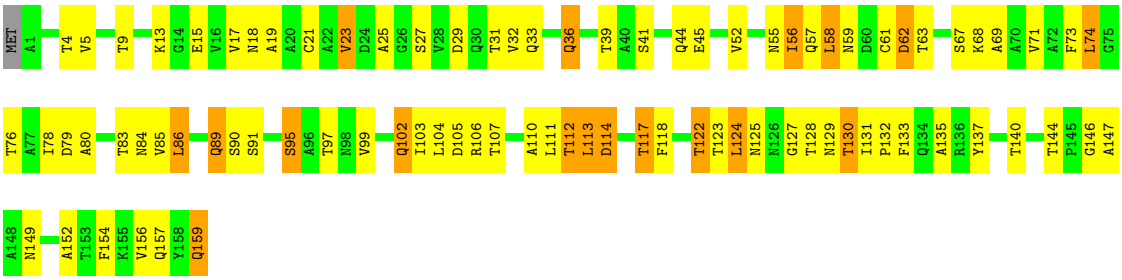
Chain E:



• Molecule 1: FimA

Chain F:

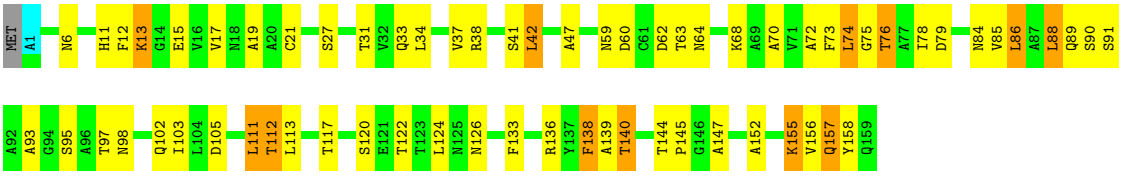




4.2.9 Score per residue for model 9

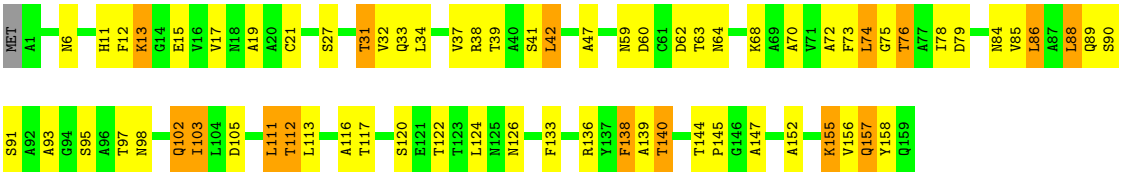
• Molecule 1: FimA

Chain A:



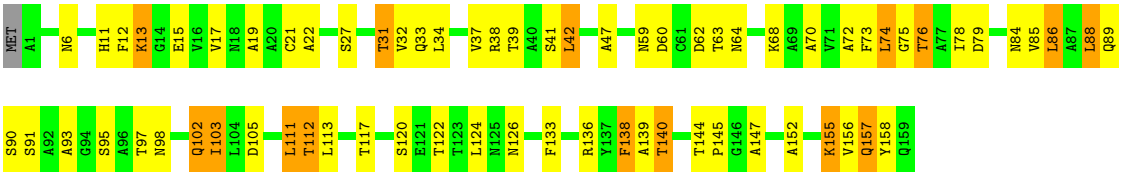
• Molecule 1: FimA

Chain B:



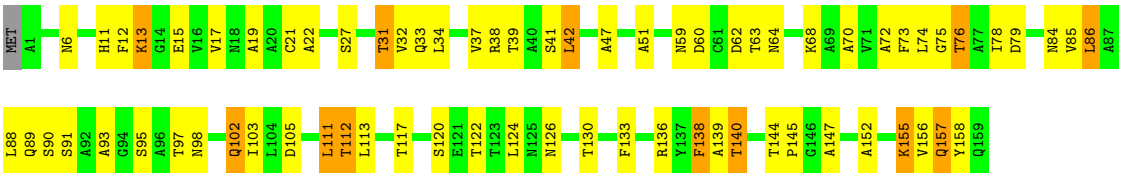
• Molecule 1: FimA

Chain C:



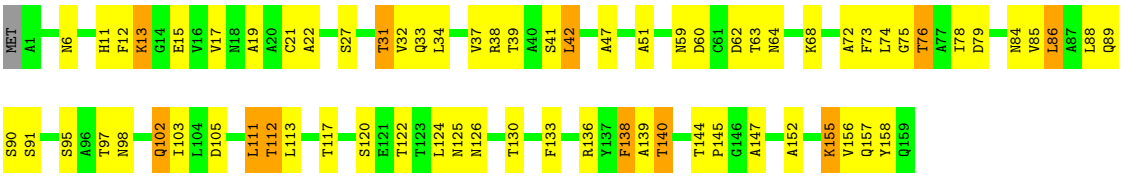
• Molecule 1: FimA

Chain D:



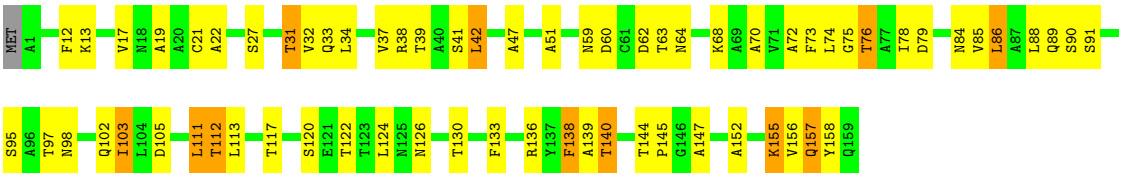
• Molecule 1: FimA

Chain E:



• Molecule 1: FimA

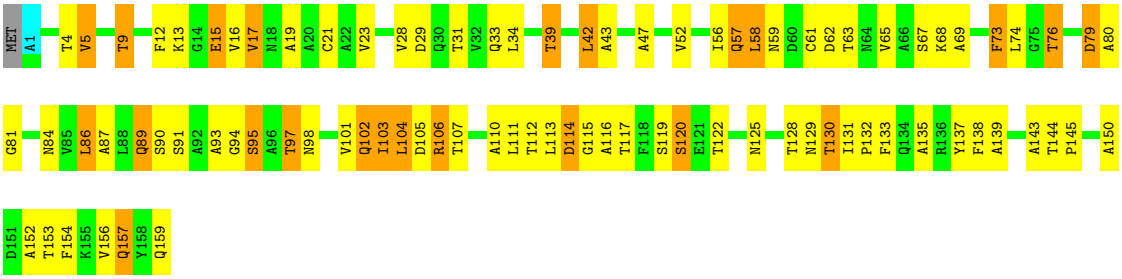
Chain F:



4.2.10 Score per residue for model 10

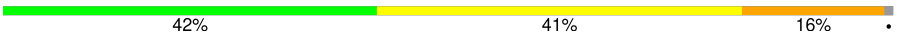
• Molecule 1: FimA

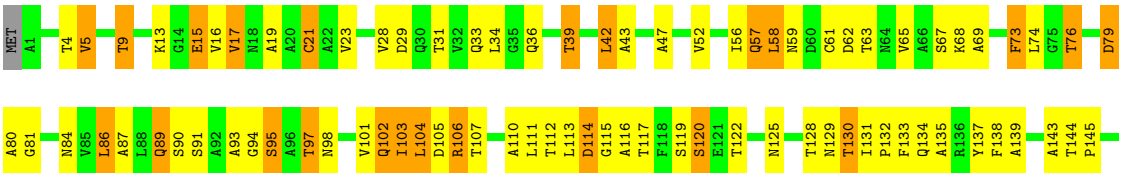
Chain A:



• Molecule 1: FimA

Chain B:

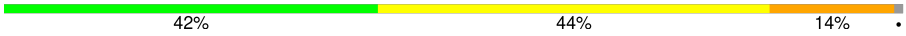




A148 N149 A150 D151 A152 T153 F154 K155 V156 Q157 Y158 Q159

- Molecule 1: FimA

Chain C:



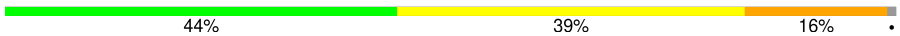
MET A1 T4 V5 T9 F12 K13 G14 E15 V16 V17 N18 A19 A20 C21 A22 V23 V28 D29 Q30 T31 V32 Q33 L34 G35 Q36 T39 L42 A43 A47 V52 I56 Q57 L58 N59 D60 C61 D62 T63 N64 V65 A66 S67 K68 A69 F73 L74 G75 T76

D79 A80 G81 N84 V85 L86 A87 L88 Q89 S90 S91 A92 A93 G94 S95 A96 T97 N98 V101 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 D114 G115 A116 T117 F118 S119 S120 E121 T122 N125 T128 N129 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 T140 A143 T144

P145 G146 A147 A148 N149 A150 D151 A152 T153 F154 K155 V156 Q157 Y158 Q159

- Molecule 1: FimA

Chain D:



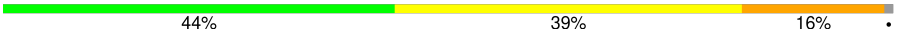
MET A1 T4 V5 T9 F12 K13 G14 E15 V16 V17 N18 A19 A20 C21 A22 V23 V28 D29 Q30 T31 V32 Q33 L34 G35 Q36 T39 L42 A43 A47 V52 I56 Q57 L58 N59 D60 C61 D62 T63 N64 V65 A66 S67 K68 A69 F73 T76 D79

A80 G81 N84 V85 L86 A87 L88 Q89 S90 S91 G94 S95 A96 T97 N98 V101 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 D114 T117 F118 S119 S120 E121 T122 N125 N126 G127 T128 N129 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 A143 T144 P145 A148

N149 A150 D151 A152 T153 F154 K155 V156 Q157 Y158 Q159

- Molecule 1: FimA

Chain E:



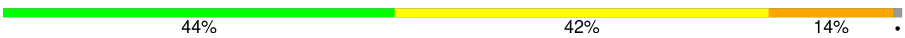
MET A1 T4 V5 T9 K13 G14 E15 V16 V17 N18 A19 A20 C21 A22 V23 V28 D29 Q30 T31 V32 Q33 L34 G35 Q36 T39 L42 A43 A47 V52 I56 Q57 L58 N59 D60 C61 D62 T63 N64 V65 A66 S67 K68 A69 F73 T76 D79 A80

G81 N84 V85 L86 A87 L88 Q89 S90 S91 G94 S95 A96 T97 N98 V101 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 D114 T117 F118 S119 S120 E121 T122 N125 N126 G127 T128 N129 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 A143 T144 P145 G146 A147 A148

N149 A150 D151 A152 T153 F154 K155 V156 Q157 Y158 Q159

- Molecule 1: FimA

Chain F:



MET A1 T4 V5 T9 K13 G14 E15 V16 V17 N18 A19 A20 C21 A22 V23 V28 D29 Q30 T31 V32 Q33 L34 G35 Q36 T39 L42 A43 A47 V52 I56 Q57 L58 N59 D60 C61 D62 T63 N64 V65 A66 S67 K68 A69 F73 T76 D79 A80

G81 N84 V85 L86 A87 L88 Q89 S90 S91 G94 S95 A96 T97 N98 V101 Q102 I103 L104 D105 R106 T107 A110 L111 T112 L113 D114 T117 F118 S119 S120 E121 T122 N125 N126 G127 T128 N129 T130 I131 P132 F133 Q134 A135 R136 Y137 F138 A139 T140 A143 T144 P145 G146 A147

A148
N149
A150
D151
A152
T153
F154
K155
V156
Q157
Y158
Q159

5 Refinement protocol and experimental data overview (i)

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

Of the 1100 calculated structures, 10 were deposited, based on the following criterion: *target function*.

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

Software name	Classification	Version
ISD	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	800
Number of shifts mapped to atoms	800
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	7%

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

6 Model quality (i)

6.1 Standard geometry (i)

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	1107	1062	1070	46±10
1	B	1112	1067	1077	56±11
1	C	1112	1067	1077	56±11
1	D	1112	1067	1077	56±12
1	E	1112	1067	1077	56±12
1	F	1112	1067	1077	46±9
All	All	66670	63970	64526	2537

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 19.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:112:THR:HG23	1:B:117:THR:HG21	0.90	1.44	4	3
1:A:112:THR:HG23	1:A:117:THR:HG21	0.89	1.44	4	3
1:A:21:CYS:HG	1:A:61:CYS:HG	0.88	0.97	6	3
1:C:112:THR:HG23	1:C:117:THR:HG21	0.88	1.44	4	3
1:E:112:THR:HG23	1:E:117:THR:HG21	0.87	1.45	4	3
1:F:112:THR:HG23	1:F:117:THR:HG21	0.87	1.44	4	3
1:C:9:THR:HG22	1:D:153:THR:HG23	0.87	1.46	3	3
1:D:9:THR:HG22	1:E:153:THR:HG23	0.85	1.46	3	3
1:D:112:THR:HG23	1:D:117:THR:HG21	0.85	1.44	4	3

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:21:CYS:HG	1:C:61:CYS:HG	0.85	0.99	1	1
1:E:9:THR:HG22	1:F:153:THR:HG23	0.84	1.46	3	3
1:A:9:THR:HG22	1:B:153:THR:HG23	0.84	1.46	3	3
1:B:86:LEU:HD22	1:B:150:ALA:HB1	0.83	1.50	6	5
1:E:86:LEU:HD22	1:E:150:ALA:HB1	0.83	1.50	6	5
1:F:86:LEU:HD22	1:F:150:ALA:HB1	0.83	1.50	6	5
1:A:86:LEU:HD22	1:A:150:ALA:HB1	0.83	1.50	6	5
1:E:21:CYS:HG	1:E:61:CYS:HG	0.83	0.95	1	2
1:B:9:THR:HG22	1:C:153:THR:HG23	0.83	1.46	3	3
1:C:86:LEU:HD22	1:C:150:ALA:HB1	0.83	1.50	6	5
1:B:21:CYS:HG	1:B:61:CYS:HG	0.81	0.92	1	1
1:D:21:CYS:HG	1:D:61:CYS:HG	0.81	0.95	1	1
1:D:86:LEU:HD22	1:D:150:ALA:HB1	0.80	1.50	6	5
1:A:74:LEU:HD21	1:D:130:THR:HG21	0.80	1.53	4	3
1:B:74:LEU:HD21	1:E:130:THR:HG21	0.79	1.53	4	3
1:C:79:ASP:CB	1:C:140:THR:HG21	0.79	2.08	5	1
1:F:79:ASP:CB	1:F:140:THR:HG21	0.78	2.08	5	1
1:D:79:ASP:CB	1:D:140:THR:HG21	0.78	2.08	5	1
1:A:79:ASP:CB	1:A:140:THR:HG21	0.78	2.08	5	1
1:C:74:LEU:HD21	1:F:130:THR:HG21	0.78	1.53	4	3
1:E:79:ASP:CB	1:E:140:THR:HG21	0.77	2.08	5	1
1:F:79:ASP:HB3	1:F:140:THR:HG21	0.77	1.56	5	1
1:B:79:ASP:CB	1:B:140:THR:HG21	0.77	2.08	5	1
1:C:79:ASP:HB3	1:C:140:THR:HG21	0.77	1.56	5	1
1:E:104:LEU:HD12	1:E:110:ALA:HB2	0.77	1.56	8	2
1:B:104:LEU:HD12	1:B:110:ALA:HB2	0.77	1.56	8	2
1:D:79:ASP:HB3	1:D:140:THR:HG21	0.77	1.56	5	1
1:D:104:LEU:HD12	1:D:110:ALA:HB2	0.77	1.56	8	1
1:A:79:ASP:HB3	1:A:140:THR:HG21	0.77	1.56	5	1
1:E:112:THR:CG2	1:E:117:THR:HG21	0.76	2.10	4	3
1:B:112:THR:CG2	1:B:117:THR:HG21	0.76	2.10	4	3
1:E:79:ASP:HB3	1:E:140:THR:HG21	0.76	1.56	5	1
1:A:112:THR:CG2	1:A:117:THR:HG21	0.76	2.10	4	3
1:C:104:LEU:HD12	1:C:110:ALA:HB2	0.76	1.56	8	2
1:F:104:LEU:HD12	1:F:110:ALA:HB2	0.76	1.56	8	1
1:F:112:THR:CG2	1:F:117:THR:HG21	0.75	2.10	4	2
1:D:112:THR:CG2	1:D:117:THR:HG21	0.75	2.10	4	3
1:B:5:VAL:HG21	1:C:17:VAL:HG12	0.75	1.58	3	2
1:E:5:VAL:HG21	1:F:17:VAL:HG12	0.75	1.57	3	2
1:A:104:LEU:HD12	1:A:110:ALA:HB2	0.75	1.56	8	2
1:C:112:THR:CG2	1:C:117:THR:HG21	0.75	2.10	4	3

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:86:LEU:HD12	1:B:113:LEU:HD22	0.75	1.59	10	1
1:E:86:LEU:HD12	1:E:113:LEU:HD22	0.75	1.59	10	1
1:B:79:ASP:HB3	1:B:140:THR:HG21	0.74	1.56	5	1
1:C:5:VAL:HG21	1:D:17:VAL:HG12	0.74	1.58	3	2
1:D:5:VAL:HG21	1:E:17:VAL:HG12	0.74	1.58	3	2
1:F:86:LEU:HD12	1:F:113:LEU:HD22	0.74	1.59	10	1
1:D:69:ALA:HB2	1:D:124:LEU:HD13	0.74	1.60	8	1
1:C:86:LEU:HD12	1:C:113:LEU:HD22	0.73	1.59	10	1
1:A:5:VAL:HG21	1:B:17:VAL:HG12	0.73	1.58	3	2
1:E:69:ALA:HB2	1:E:124:LEU:HD13	0.73	1.60	8	1
1:A:90:SER:HA	1:D:52:VAL:HG13	0.73	1.60	6	1
1:E:144:THR:CG2	1:E:145:PRO:CD	0.73	2.67	2	4
1:F:144:THR:CG2	1:F:145:PRO:CD	0.73	2.67	2	4
1:D:86:LEU:HD12	1:D:113:LEU:HD22	0.73	1.59	10	1
1:A:69:ALA:HB2	1:A:124:LEU:HD13	0.73	1.60	8	1
1:B:144:THR:CG2	1:B:145:PRO:CD	0.72	2.67	2	4
1:B:69:ALA:HB2	1:B:124:LEU:HD13	0.72	1.60	8	1
1:A:86:LEU:HD12	1:A:113:LEU:HD22	0.72	1.59	10	1
1:A:144:THR:CG2	1:A:145:PRO:CD	0.72	2.67	2	4
1:F:21:CYS:HG	1:F:61:CYS:HG	0.72	0.73	1	1
1:F:69:ALA:HB2	1:F:124:LEU:HD13	0.72	1.60	8	1
1:C:69:ALA:HB2	1:C:124:LEU:HD13	0.72	1.60	8	1
1:C:90:SER:HA	1:F:52:VAL:HG13	0.72	1.60	6	1
1:D:144:THR:CG2	1:D:145:PRO:CD	0.72	2.67	2	4
1:C:144:THR:CG2	1:C:145:PRO:CD	0.71	2.67	2	4
1:B:90:SER:HA	1:E:52:VAL:HG13	0.71	1.60	6	1
1:D:84:ASN:HA	1:D:112:THR:HA	0.70	1.64	8	6
1:F:84:ASN:HA	1:F:112:THR:HA	0.70	1.64	8	6
1:A:84:ASN:HA	1:A:112:THR:HA	0.70	1.64	8	6
1:C:84:ASN:HA	1:C:112:THR:HA	0.70	1.64	8	6
1:E:16:VAL:HG23	1:F:148:ALA:HB2	0.69	1.64	4	5
1:B:16:VAL:HG23	1:C:148:ALA:HB2	0.69	1.64	4	5
1:B:15:GLU:CG	1:C:146:GLY:O	0.69	2.41	3	3
1:E:15:GLU:CG	1:F:146:GLY:O	0.69	2.41	3	3
1:C:16:VAL:HG23	1:D:148:ALA:HB2	0.68	1.65	4	5
1:A:57:GLN:HA	1:A:130:THR:HG23	0.68	1.65	4	5
1:A:16:VAL:HG23	1:B:148:ALA:HB2	0.68	1.65	4	5
1:D:16:VAL:HG23	1:E:148:ALA:HB2	0.68	1.64	4	5
1:F:72:ALA:HB3	1:F:155:LYS:HB3	0.68	1.66	7	2
1:C:15:GLU:CG	1:D:146:GLY:O	0.68	2.41	3	3
1:D:15:GLU:CG	1:E:146:GLY:O	0.68	2.41	3	3

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:15:GLU:CG	1:B:146:GLY:O	0.68	2.41	3	3
1:D:57:GLN:HA	1:D:130:THR:HG23	0.67	1.65	4	4
1:F:57:GLN:HA	1:F:130:THR:HG23	0.67	1.65	4	4
1:E:84:ASN:HA	1:E:112:THR:HA	0.67	1.64	8	5
1:C:72:ALA:HB3	1:C:155:LYS:HB3	0.67	1.66	7	2
1:C:57:GLN:HA	1:C:130:THR:HG23	0.67	1.65	4	4
1:B:84:ASN:HA	1:B:112:THR:HA	0.67	1.64	8	5
1:D:93:ALA:HB1	1:F:22:ALA:HB1	0.67	1.67	9	1
1:D:144:THR:CG2	1:D:145:PRO:HD2	0.67	2.20	2	4
1:C:93:ALA:HB1	1:E:22:ALA:HB1	0.67	1.67	9	1
1:A:144:THR:CG2	1:A:145:PRO:HD2	0.67	2.20	2	4
1:C:144:THR:CG2	1:C:145:PRO:HD2	0.67	2.20	2	4
1:A:93:ALA:HB1	1:C:22:ALA:HB1	0.67	1.67	9	1
1:F:42:LEU:O	1:F:143:ALA:HB2	0.67	1.90	10	4
1:B:42:LEU:O	1:B:143:ALA:HB2	0.66	1.90	10	4
1:B:57:GLN:HA	1:B:130:THR:HG23	0.66	1.65	4	5
1:E:42:LEU:O	1:E:143:ALA:HB2	0.66	1.90	10	4
1:E:57:GLN:HA	1:E:130:THR:HG23	0.66	1.65	4	4
1:C:42:LEU:O	1:C:143:ALA:HB2	0.66	1.90	10	4
1:F:105:ASP:HB3	1:F:107:THR:HG22	0.66	1.68	2	6
1:B:21:CYS:SG	1:B:58:LEU:HB3	0.66	2.31	5	2
1:C:21:CYS:SG	1:C:58:LEU:HB3	0.66	2.31	5	2
1:C:105:ASP:HB3	1:C:107:THR:HG22	0.66	1.68	2	6
1:E:21:CYS:SG	1:E:58:LEU:HB3	0.66	2.31	5	2
1:F:21:CYS:SG	1:F:58:LEU:HB3	0.66	2.31	5	2
1:F:144:THR:CG2	1:F:145:PRO:HD2	0.66	2.20	2	4
1:A:105:ASP:HB3	1:A:107:THR:HG22	0.66	1.68	2	6
1:B:52:VAL:HG22	1:B:135:ALA:O	0.65	1.91	1	4
1:B:93:ALA:HB1	1:D:22:ALA:HB1	0.65	1.67	9	1
1:D:105:ASP:HB3	1:D:107:THR:HG22	0.65	1.68	2	6
1:B:144:THR:CG2	1:B:145:PRO:HD2	0.65	2.20	2	4
1:B:72:ALA:HB3	1:B:155:LYS:HB3	0.65	1.66	7	2
1:A:17:VAL:O	1:B:39:THR:HG22	0.65	1.92	1	1
1:A:21:CYS:SG	1:A:58:LEU:HB3	0.65	2.31	5	2
1:C:52:VAL:HG22	1:C:135:ALA:O	0.65	1.91	1	4
1:E:144:THR:CG2	1:E:145:PRO:HD2	0.65	2.20	2	4
1:C:17:VAL:O	1:D:39:THR:HG22	0.65	1.92	1	1
1:A:52:VAL:HG22	1:A:135:ALA:O	0.65	1.91	1	4
1:D:72:ALA:HB3	1:D:155:LYS:HB3	0.65	1.66	7	2
1:A:42:LEU:O	1:A:143:ALA:HB2	0.65	1.91	10	4
1:D:21:CYS:SG	1:D:58:LEU:HB3	0.65	2.31	5	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:71:VAL:HG11	1:F:131:ILE:HG21	0.65	1.69	1	5
1:A:72:ALA:HB3	1:A:155:LYS:HB3	0.65	1.66	7	2
1:E:72:ALA:HB3	1:E:155:LYS:HB3	0.65	1.66	7	2
1:D:17:VAL:O	1:E:39:THR:HG22	0.65	1.92	1	1
1:E:52:VAL:HG22	1:E:135:ALA:O	0.65	1.91	1	4
1:F:52:VAL:HG22	1:F:135:ALA:O	0.65	1.91	1	4
1:E:105:ASP:HB3	1:E:107:THR:HG22	0.64	1.68	2	6
1:E:144:THR:HG23	1:E:145:PRO:CD	0.64	2.22	2	3
1:B:71:VAL:HG11	1:B:131:ILE:HG21	0.64	1.69	1	5
1:B:105:ASP:HB3	1:B:107:THR:HG22	0.64	1.68	2	6
1:F:144:THR:HG23	1:F:145:PRO:CD	0.64	2.23	2	3
1:C:144:THR:HG23	1:C:145:PRO:CD	0.64	2.23	2	3
1:D:52:VAL:HG22	1:D:135:ALA:O	0.64	1.91	1	4
1:A:44:GLN:HG3	1:A:47:ALA:HB2	0.64	1.70	5	1
1:A:71:VAL:HG11	1:A:131:ILE:HG21	0.64	1.70	3	3
1:B:144:THR:HG23	1:B:145:PRO:CD	0.64	2.23	2	3
1:C:71:VAL:HG11	1:C:131:ILE:HG21	0.64	1.69	1	3
1:D:42:LEU:O	1:D:143:ALA:HB2	0.64	1.90	10	4
1:E:17:VAL:O	1:F:39:THR:HG22	0.64	1.92	1	1
1:B:44:GLN:HG3	1:B:47:ALA:HB2	0.64	1.70	5	1
1:A:95:SER:HA	1:A:147:ALA:HB3	0.64	1.69	1	5
1:F:44:GLN:HG3	1:F:47:ALA:HB2	0.64	1.70	5	1
1:B:15:GLU:O	1:C:36:GLN:HA	0.64	1.93	2	6
1:A:56:ILE:HB	1:A:131:ILE:HD12	0.64	1.70	7	1
1:A:144:THR:HG23	1:A:145:PRO:CD	0.64	2.23	2	3
1:D:71:VAL:HG11	1:D:131:ILE:HG21	0.64	1.69	1	4
1:E:71:VAL:HG11	1:E:131:ILE:HG21	0.64	1.69	3	5
1:E:44:GLN:HG3	1:E:47:ALA:HB2	0.64	1.70	5	1
1:A:69:ALA:HB2	1:A:124:LEU:HD12	0.64	1.70	6	1
1:D:15:GLU:O	1:E:36:GLN:HA	0.64	1.93	2	6
1:B:69:ALA:HB2	1:B:124:LEU:HD12	0.64	1.71	6	1
1:B:17:VAL:O	1:C:39:THR:HG22	0.63	1.92	1	1
1:C:95:SER:HA	1:C:147:ALA:HB3	0.63	1.69	1	5
1:E:95:SER:HA	1:E:147:ALA:HB3	0.63	1.69	1	5
1:D:69:ALA:HB2	1:D:124:LEU:HD12	0.63	1.71	6	1
1:E:69:ALA:HB2	1:E:124:LEU:HD12	0.63	1.70	6	1
1:C:9:THR:HG23	1:D:153:THR:HG23	0.63	1.69	10	1
1:D:9:THR:HG23	1:E:153:THR:HG23	0.63	1.69	10	1
1:D:95:SER:HA	1:D:147:ALA:HB3	0.63	1.69	1	5
1:F:69:ALA:HB2	1:F:124:LEU:HD12	0.63	1.70	6	1
1:B:95:SER:HA	1:B:147:ALA:HB3	0.63	1.69	1	5

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:15:GLU:O	1:F:36:GLN:HA	0.63	1.93	2	6
1:C:44:GLN:HG3	1:C:47:ALA:HB2	0.63	1.70	5	1
1:D:44:GLN:HG3	1:D:47:ALA:HB2	0.63	1.70	5	1
1:A:9:THR:HG23	1:B:153:THR:HG23	0.63	1.69	10	1
1:B:9:THR:HG23	1:C:153:THR:HG23	0.63	1.69	10	1
1:A:15:GLU:O	1:B:36:GLN:HA	0.63	1.93	2	6
1:A:82:HIS:HB3	1:A:85:VAL:HB	0.63	1.70	6	1
1:C:69:ALA:HB2	1:C:124:LEU:HD12	0.63	1.71	6	1
1:C:63:THR:HG23	1:C:124:LEU:O	0.63	1.94	4	1
1:D:82:HIS:HB3	1:D:85:VAL:HB	0.62	1.70	6	1
1:C:56:ILE:HB	1:C:131:ILE:HD12	0.62	1.70	7	1
1:E:9:THR:HG23	1:F:153:THR:HG23	0.62	1.69	10	1
1:C:15:GLU:O	1:D:36:GLN:HA	0.62	1.93	2	6
1:F:95:SER:HA	1:F:147:ALA:HB3	0.62	1.69	1	5
1:D:56:ILE:HB	1:D:131:ILE:HD12	0.62	1.70	7	1
1:B:12:PHE:HB3	1:C:34:LEU:HD21	0.62	1.70	7	1
1:C:12:PHE:HB3	1:D:34:LEU:HD21	0.62	1.70	7	1
1:C:82:HIS:HB3	1:C:85:VAL:HB	0.62	1.70	6	1
1:C:15:GLU:HG3	1:D:146:GLY:O	0.62	1.94	3	4
1:B:56:ILE:HB	1:B:131:ILE:HD12	0.62	1.70	7	1
1:B:15:GLU:HG3	1:C:146:GLY:O	0.62	1.94	3	4
1:B:102:GLN:O	1:B:135:ALA:HA	0.62	1.95	4	5
1:C:75:GLY:HA3	1:C:113:LEU:HD22	0.62	1.72	1	1
1:C:102:GLN:O	1:C:135:ALA:HA	0.62	1.95	4	5
1:E:102:GLN:O	1:E:135:ALA:HA	0.62	1.94	4	5
1:A:104:LEU:HA	1:A:110:ALA:HA	0.62	1.72	4	4
1:A:12:PHE:HB3	1:B:34:LEU:HD21	0.62	1.70	7	1
1:F:56:ILE:HB	1:F:131:ILE:HD12	0.62	1.70	7	1
1:C:88:LEU:HD12	1:F:51:ALA:O	0.62	1.95	9	1
1:D:63:THR:HG23	1:D:124:LEU:O	0.62	1.94	4	1
1:D:12:PHE:HB3	1:E:34:LEU:HD21	0.62	1.70	7	1
1:A:102:GLN:O	1:A:135:ALA:HA	0.62	1.94	4	5
1:D:75:GLY:HA3	1:D:113:LEU:HD22	0.62	1.72	1	1
1:C:17:VAL:HG11	1:D:36:GLN:NE2	0.62	2.10	2	3
1:A:63:THR:HG23	1:A:124:LEU:O	0.62	1.94	4	1
1:B:63:THR:HG23	1:B:124:LEU:O	0.62	1.94	4	1
1:F:63:THR:HG23	1:F:124:LEU:O	0.62	1.94	4	1
1:E:56:ILE:HB	1:E:131:ILE:HD12	0.62	1.70	7	1
1:D:144:THR:HG23	1:D:145:PRO:CD	0.62	2.23	2	3
1:F:75:GLY:HA3	1:F:113:LEU:HD22	0.62	1.72	1	1
1:A:17:VAL:O	1:B:39:THR:HG23	0.62	1.95	7	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:12:PHE:HB3	1:F:34:LEU:HD21	0.62	1.70	7	1
1:D:17:VAL:HG11	1:E:36:GLN:NE2	0.62	2.10	2	3
1:A:17:VAL:HG11	1:B:36:GLN:NE2	0.61	2.10	2	3
1:E:63:THR:HG23	1:E:124:LEU:O	0.61	1.94	4	1
1:A:75:GLY:HA3	1:A:113:LEU:HD22	0.61	1.72	1	1
1:B:82:HIS:HB3	1:B:85:VAL:HB	0.61	1.70	6	1
1:D:15:GLU:HG3	1:E:146:GLY:O	0.61	1.94	3	4
1:D:104:LEU:HA	1:D:110:ALA:HA	0.61	1.72	4	4
1:E:17:VAL:O	1:F:39:THR:HG23	0.61	1.95	7	2
1:B:61:CYS:SG	1:B:129:ASN:HB2	0.61	2.35	4	3
1:E:82:HIS:HB3	1:E:85:VAL:HB	0.61	1.70	6	1
1:A:88:LEU:HD12	1:D:51:ALA:O	0.61	1.95	9	1
1:B:17:VAL:HG11	1:C:36:GLN:NE2	0.61	2.10	2	3
1:D:102:GLN:O	1:D:135:ALA:HA	0.61	1.94	4	5
1:E:75:GLY:HA3	1:E:113:LEU:HD22	0.61	1.72	1	1
1:E:15:GLU:HG3	1:F:146:GLY:O	0.61	1.94	3	4
1:A:61:CYS:SG	1:A:129:ASN:HB2	0.61	2.36	4	3
1:B:17:VAL:O	1:C:39:THR:HG23	0.61	1.95	7	2
1:A:15:GLU:HG3	1:B:146:GLY:O	0.61	1.94	3	4
1:F:61:CYS:SG	1:F:129:ASN:HB2	0.61	2.36	4	3
1:B:88:LEU:HD12	1:E:51:ALA:O	0.61	1.95	9	1
1:B:112:THR:HG22	1:B:117:THR:HG21	0.61	1.73	10	1
1:E:112:THR:HG22	1:E:117:THR:HG21	0.61	1.73	10	1
1:D:16:VAL:HG13	1:E:37:VAL:HG13	0.61	1.73	1	1
1:B:104:LEU:HA	1:B:110:ALA:HA	0.61	1.72	4	3
1:E:104:LEU:HA	1:E:110:ALA:HA	0.61	1.72	4	3
1:E:17:VAL:HG11	1:F:36:GLN:NE2	0.61	2.10	2	3
1:D:61:CYS:SG	1:D:129:ASN:HB2	0.61	2.36	4	3
1:A:42:LEU:CB	1:A:139:ALA:HB2	0.61	2.26	6	1
1:F:82:HIS:HB3	1:F:85:VAL:HB	0.61	1.70	6	1
1:D:42:LEU:CB	1:D:139:ALA:HB2	0.60	2.26	6	1
1:F:102:GLN:O	1:F:135:ALA:HA	0.60	1.95	4	5
1:E:16:VAL:CG1	1:F:144:THR:O	0.60	2.49	3	2
1:C:61:CYS:SG	1:C:129:ASN:HB2	0.60	2.36	4	3
1:B:55:ASN:HA	1:B:131:ILE:O	0.60	1.96	6	1
1:C:42:LEU:CB	1:C:139:ALA:HB2	0.60	2.26	6	1
1:E:55:ASN:HA	1:E:131:ILE:O	0.60	1.96	6	1
1:D:17:VAL:O	1:E:39:THR:HG23	0.60	1.95	7	2
1:B:16:VAL:CG1	1:C:144:THR:O	0.60	2.49	3	2
1:C:16:VAL:CG1	1:D:144:THR:O	0.60	2.50	3	2
1:E:5:VAL:HG21	1:F:17:VAL:CG1	0.60	2.26	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:104:LEU:HA	1:C:110:ALA:HA	0.60	1.72	4	3
1:E:91:SER:HB2	1:E:95:SER:HB2	0.60	1.73	10	2
1:A:16:VAL:CG1	1:B:144:THR:O	0.60	2.49	3	2
1:B:5:VAL:HG21	1:C:17:VAL:CG1	0.60	2.27	3	1
1:D:55:ASN:HA	1:D:131:ILE:O	0.60	1.96	6	1
1:B:42:LEU:CB	1:B:139:ALA:HB2	0.60	2.26	6	1
1:C:5:VAL:HG21	1:D:17:VAL:CG1	0.60	2.27	3	1
1:C:90:SER:HA	1:F:52:VAL:HB	0.60	1.74	4	1
1:E:61:CYS:SG	1:E:129:ASN:HB2	0.60	2.36	4	3
1:B:75:GLY:HA3	1:B:113:LEU:HD22	0.60	1.72	1	1
1:F:42:LEU:CB	1:F:139:ALA:HB2	0.60	2.26	6	1
1:B:91:SER:HB2	1:B:95:SER:HB2	0.60	1.73	10	2
1:B:90:SER:HA	1:E:52:VAL:HB	0.60	1.74	4	1
1:C:17:VAL:O	1:D:39:THR:HG23	0.60	1.95	7	2
1:F:104:LEU:HA	1:F:110:ALA:HA	0.59	1.72	4	3
1:F:55:ASN:HA	1:F:131:ILE:O	0.59	1.96	6	1
1:A:91:SER:HB2	1:A:95:SER:HB2	0.59	1.73	10	2
1:D:16:VAL:CG1	1:E:144:THR:O	0.59	2.50	3	2
1:A:5:VAL:HG21	1:B:17:VAL:CG1	0.59	2.27	3	1
1:E:42:LEU:CB	1:E:139:ALA:HB2	0.59	2.26	6	1
1:D:91:SER:HB2	1:D:95:SER:HB2	0.59	1.72	10	2
1:F:91:SER:HB2	1:F:95:SER:HB2	0.59	1.73	10	2
1:A:16:VAL:HG13	1:B:37:VAL:HG13	0.59	1.73	1	1
1:E:97:THR:H	1:E:144:THR:HB	0.59	1.58	4	2
1:A:55:ASN:HA	1:A:131:ILE:O	0.59	1.96	6	1
1:F:112:THR:HG22	1:F:117:THR:HG21	0.59	1.73	10	1
1:E:86:LEU:HG	1:E:113:LEU:HD13	0.59	1.75	2	3
1:D:5:VAL:HG21	1:E:17:VAL:CG1	0.59	2.27	3	1
1:A:97:THR:H	1:A:144:THR:HB	0.59	1.58	4	2
1:C:91:SER:HB2	1:C:95:SER:HB2	0.59	1.73	10	2
1:B:86:LEU:HG	1:B:113:LEU:HD13	0.59	1.75	2	3
1:E:3:THR:O	1:F:157:GLN:HA	0.59	1.98	4	2
1:C:55:ASN:HA	1:C:131:ILE:O	0.59	1.96	6	1
1:C:85:VAL:HA	1:C:102:GLN:HA	0.59	1.74	7	2
1:C:16:VAL:HG13	1:D:37:VAL:HG13	0.59	1.73	1	1
1:A:3:THR:O	1:B:157:GLN:HA	0.59	1.98	4	2
1:B:97:THR:H	1:B:144:THR:HB	0.59	1.58	4	2
1:D:97:THR:H	1:D:144:THR:HB	0.59	1.58	4	2
1:C:112:THR:HG22	1:C:117:THR:HG21	0.59	1.73	10	1
1:A:78:ILE:HB	1:A:87:ALA:HA	0.59	1.75	6	1
1:D:78:ILE:HB	1:D:87:ALA:HA	0.59	1.75	6	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:16:VAL:HG13	1:C:37:VAL:HG13	0.58	1.73	1	1
1:B:5:VAL:HG23	1:C:156:VAL:HG23	0.58	1.75	10	5
1:C:3:THR:O	1:D:157:GLN:HA	0.58	1.98	4	2
1:D:85:VAL:HA	1:D:102:GLN:HA	0.58	1.74	7	2
1:F:85:VAL:HA	1:F:102:GLN:HA	0.58	1.74	7	2
1:A:112:THR:HG22	1:A:117:THR:HG21	0.58	1.73	10	1
1:C:77:ALA:O	1:C:87:ALA:HB2	0.58	1.98	1	3
1:C:97:THR:H	1:C:144:THR:HB	0.58	1.58	4	2
1:A:85:VAL:HA	1:A:102:GLN:HA	0.58	1.74	7	2
1:E:86:LEU:HD21	1:E:152:ALA:HB2	0.58	1.75	9	2
1:F:77:ALA:O	1:F:87:ALA:HB2	0.58	1.98	1	3
1:F:86:LEU:HG	1:F:113:LEU:HD13	0.58	1.75	2	3
1:B:77:ALA:O	1:B:87:ALA:HB2	0.58	1.98	1	3
1:B:144:THR:HG23	1:B:145:PRO:HD2	0.58	1.76	2	3
1:C:144:THR:HG23	1:C:145:PRO:HD2	0.58	1.76	2	3
1:B:3:THR:O	1:C:157:GLN:HA	0.58	1.98	4	2
1:D:3:THR:O	1:E:157:GLN:HA	0.58	1.98	4	2
1:A:86:LEU:HD21	1:A:152:ALA:HB2	0.58	1.75	9	2
1:D:112:THR:HG22	1:D:117:THR:HG21	0.58	1.73	10	1
1:E:16:VAL:HG13	1:F:37:VAL:HG13	0.58	1.73	1	1
1:C:42:LEU:HD23	1:C:99:VAL:HG13	0.58	1.75	2	1
1:E:5:VAL:HG23	1:F:156:VAL:HG23	0.58	1.75	10	5
1:E:78:ILE:HB	1:E:87:ALA:HA	0.58	1.75	6	1
1:D:86:LEU:HD21	1:D:152:ALA:HB2	0.58	1.75	9	2
1:D:77:ALA:O	1:D:87:ALA:HB2	0.58	1.98	1	3
1:D:42:LEU:HD23	1:D:99:VAL:HG13	0.58	1.75	2	1
1:B:86:LEU:HD21	1:B:152:ALA:HB2	0.58	1.75	9	2
1:C:86:LEU:HG	1:C:113:LEU:HD13	0.58	1.75	2	3
1:E:77:ALA:O	1:E:87:ALA:HB2	0.58	1.99	1	3
1:A:42:LEU:HD23	1:A:99:VAL:HG13	0.58	1.75	2	1
1:A:90:SER:HA	1:D:52:VAL:HB	0.58	1.74	4	2
1:D:23:VAL:HA	1:D:58:LEU:HG	0.58	1.76	8	3
1:D:144:THR:HG23	1:D:145:PRO:HD2	0.58	1.76	2	3
1:C:111:LEU:HD21	1:C:117:THR:O	0.58	1.99	8	2
1:F:52:VAL:HG22	1:F:135:ALA:HB3	0.58	1.76	4	3
1:B:78:ILE:HB	1:B:87:ALA:HA	0.58	1.75	6	1
1:A:77:ALA:O	1:A:87:ALA:HB2	0.57	1.98	1	3
1:F:42:LEU:HD23	1:F:99:VAL:HG13	0.57	1.75	2	1
1:B:73:PHE:HD2	1:B:103:ILE:HD13	0.57	1.59	10	1
1:C:73:PHE:HD2	1:C:103:ILE:HD13	0.57	1.59	10	1
1:F:73:PHE:HD2	1:F:103:ILE:HD13	0.57	1.59	10	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:VAL:HA	1:A:58:LEU:HG	0.57	1.76	8	3
1:E:52:VAL:HG22	1:E:135:ALA:HB3	0.57	1.76	4	3
1:F:97:THR:H	1:F:144:THR:HB	0.57	1.58	4	2
1:E:73:PHE:HD2	1:E:103:ILE:HD13	0.57	1.59	10	1
1:A:86:LEU:HG	1:A:113:LEU:HD13	0.57	1.75	2	3
1:D:86:LEU:HG	1:D:113:LEU:HD13	0.57	1.75	2	3
1:E:23:VAL:HA	1:E:58:LEU:HG	0.57	1.76	8	3
1:A:111:LEU:HD21	1:A:117:THR:O	0.57	1.99	8	2
1:B:42:LEU:HD23	1:B:99:VAL:HG13	0.57	1.75	2	1
1:E:42:LEU:HD23	1:E:99:VAL:HG13	0.57	1.75	2	1
1:B:85:VAL:HA	1:B:102:GLN:HA	0.57	1.74	7	2
1:A:73:PHE:HD2	1:A:103:ILE:HD13	0.57	1.59	10	1
1:D:76:THR:O	1:D:86:LEU:HA	0.57	2.00	10	5
1:A:5:VAL:HG23	1:B:156:VAL:HG23	0.57	1.75	10	5
1:C:5:VAL:HG23	1:D:156:VAL:HG23	0.57	1.75	10	5
1:F:111:LEU:HD21	1:F:117:THR:O	0.57	1.99	8	2
1:E:106:ARG:HG3	1:E:132:PRO:HG2	0.57	1.77	2	4
1:E:16:VAL:HG11	1:F:144:THR:O	0.57	2.00	5	4
1:B:111:LEU:HD21	1:B:117:THR:O	0.57	1.99	8	2
1:B:52:VAL:HG22	1:B:135:ALA:HB3	0.57	1.77	4	3
1:A:4:THR:HG21	1:E:127:GLY:HA2	0.57	1.75	8	2
1:A:144:THR:HG23	1:A:145:PRO:HD2	0.57	1.76	2	3
1:B:23:VAL:HA	1:B:58:LEU:HG	0.57	1.76	8	3
1:B:106:ARG:HG3	1:B:132:PRO:HG2	0.57	1.77	2	4
1:D:52:VAL:HG22	1:D:135:ALA:HB3	0.57	1.76	4	3
1:E:13:LYS:HG2	1:F:33:GLN:HA	0.57	1.77	7	1
1:D:73:PHE:HD2	1:D:103:ILE:HD13	0.57	1.59	10	1
1:D:106:ARG:HG3	1:D:132:PRO:HG2	0.57	1.77	2	4
1:E:144:THR:HG23	1:E:145:PRO:HD2	0.57	1.76	2	3
1:E:111:LEU:HD21	1:E:117:THR:O	0.57	1.99	8	2
1:E:85:VAL:HA	1:E:102:GLN:HA	0.57	1.74	7	2
1:A:13:LYS:HG2	1:B:33:GLN:HA	0.57	1.77	7	1
1:B:74:LEU:HD11	1:E:57:GLN:HG2	0.57	1.77	7	1
1:A:76:THR:O	1:A:86:LEU:HA	0.56	2.00	10	5
1:A:106:ARG:HG3	1:A:132:PRO:HG2	0.56	1.77	2	4
1:F:23:VAL:HA	1:F:58:LEU:HG	0.56	1.76	8	3
1:A:16:VAL:HG11	1:B:144:THR:O	0.56	2.00	5	4
1:C:78:ILE:HB	1:C:87:ALA:HA	0.56	1.75	6	1
1:C:23:VAL:HA	1:C:58:LEU:HG	0.56	1.77	8	3
1:C:74:LEU:HD11	1:F:57:GLN:HG2	0.56	1.77	7	1
1:A:88:LEU:HG	1:A:95:SER:HB3	0.56	1.78	4	4

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:144:THR:HG23	1:F:145:PRO:HD2	0.56	1.76	2	3
1:D:111:LEU:HD21	1:D:117:THR:O	0.56	1.99	8	2
1:C:86:LEU:HD21	1:C:152:ALA:HB2	0.56	1.75	9	2
1:C:16:VAL:HG11	1:D:144:THR:O	0.56	2.00	5	4
1:F:78:ILE:HB	1:F:87:ALA:HA	0.56	1.75	6	1
1:D:13:LYS:HG2	1:E:33:GLN:HA	0.56	1.77	7	1
1:B:4:THR:HG21	1:F:127:GLY:HA2	0.56	1.75	8	2
1:C:86:LEU:HD11	1:C:152:ALA:HB2	0.56	1.78	8	1
1:D:88:LEU:HG	1:D:95:SER:HB3	0.56	1.78	4	4
1:D:5:VAL:HG23	1:E:156:VAL:HG23	0.56	1.75	10	5
1:D:16:VAL:HG11	1:E:144:THR:O	0.56	2.00	5	4
1:B:45:GLU:HA	1:B:140:THR:O	0.56	2.01	8	2
1:C:74:LEU:HD12	1:F:130:THR:OG1	0.56	2.01	9	2
1:F:86:LEU:HD21	1:F:152:ALA:HB2	0.56	1.75	9	2
1:F:86:LEU:HD11	1:F:152:ALA:HB2	0.56	1.78	8	1
1:A:76:THR:HA	1:D:132:PRO:HB3	0.56	1.77	4	4
1:C:23:VAL:HG12	1:D:36:GLN:HB2	0.56	1.78	2	1
1:A:45:GLU:HA	1:A:140:THR:O	0.56	2.01	8	2
1:C:52:VAL:HG22	1:C:135:ALA:HB3	0.56	1.76	4	3
1:B:76:THR:O	1:B:86:LEU:HA	0.56	2.00	10	5
1:C:76:THR:O	1:C:86:LEU:HA	0.56	2.00	10	5
1:E:76:THR:O	1:E:86:LEU:HA	0.56	2.00	10	5
1:D:45:GLU:HA	1:D:140:THR:O	0.56	2.01	8	3
1:F:45:GLU:HA	1:F:140:THR:O	0.56	2.01	8	2
1:F:76:THR:O	1:F:86:LEU:HA	0.56	2.00	10	5
1:A:74:LEU:HD12	1:D:130:THR:OG1	0.56	2.01	9	2
1:B:13:LYS:HG2	1:C:33:GLN:HA	0.56	1.77	7	1
1:C:45:GLU:HA	1:C:140:THR:O	0.56	2.01	8	2
1:A:74:LEU:HD11	1:A:155:LYS:HG2	0.56	1.78	6	1
1:C:74:LEU:HD11	1:C:155:LYS:HG2	0.56	1.78	6	1
1:B:16:VAL:HG11	1:C:144:THR:O	0.56	2.00	5	4
1:D:74:LEU:HD11	1:D:155:LYS:HG2	0.56	1.78	6	1
1:A:74:LEU:HD11	1:D:57:GLN:HG2	0.56	1.77	7	1
1:D:88:LEU:HD22	1:D:96:ALA:O	0.56	2.01	7	1
1:E:88:LEU:HG	1:E:95:SER:HB3	0.55	1.78	4	4
1:F:74:LEU:HD11	1:F:155:LYS:HG2	0.55	1.78	6	1
1:B:74:LEU:HD12	1:E:130:THR:OG1	0.55	2.01	9	2
1:F:88:LEU:HD22	1:F:96:ALA:O	0.55	2.01	7	1
1:C:56:ILE:O	1:C:56:ILE:HG23	0.55	2.02	4	5
1:B:88:LEU:HD22	1:B:96:ALA:O	0.55	2.01	7	1
1:C:13:LYS:HG2	1:D:33:GLN:HA	0.55	1.77	7	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:56:ILE:HG23	1:B:56:ILE:O	0.55	2.02	4	5
1:B:76:THR:HA	1:E:132:PRO:HB3	0.55	1.77	4	4
1:B:88:LEU:HG	1:B:95:SER:HB3	0.55	1.78	4	4
1:C:88:LEU:HG	1:C:95:SER:HB3	0.55	1.78	4	4
1:C:106:ARG:HG3	1:C:132:PRO:HG2	0.55	1.77	2	4
1:F:56:ILE:HG23	1:F:56:ILE:O	0.55	2.02	4	5
1:F:104:LEU:HD13	1:F:134:GLN:NE2	0.55	2.17	1	1
1:E:45:GLU:HA	1:E:140:THR:O	0.55	2.01	8	3
1:E:88:LEU:HD22	1:E:96:ALA:O	0.55	2.01	7	1
1:A:9:THR:HG22	1:B:153:THR:CG2	0.55	2.30	2	1
1:A:52:VAL:HG22	1:A:135:ALA:HB3	0.55	1.76	4	3
1:D:86:LEU:HD11	1:D:152:ALA:HB2	0.55	1.78	8	1
1:D:4:THR:HG23	1:E:157:GLN:HG3	0.55	1.79	8	2
1:E:56:ILE:HG23	1:E:56:ILE:O	0.55	2.02	4	5
1:D:84:ASN:HA	1:D:113:LEU:HD13	0.55	1.79	9	1
1:F:106:ARG:HG3	1:F:132:PRO:HG2	0.55	1.77	2	4
1:B:104:LEU:HD13	1:B:134:GLN:NE2	0.55	2.17	1	1
1:C:104:LEU:HD13	1:C:134:GLN:NE2	0.55	2.17	1	1
1:F:88:LEU:HG	1:F:95:SER:HB3	0.55	1.78	4	4
1:B:74:LEU:HD11	1:B:155:LYS:HG2	0.55	1.78	6	1
1:A:86:LEU:HD11	1:A:152:ALA:HB2	0.55	1.78	8	1
1:A:84:ASN:HA	1:A:113:LEU:HD13	0.55	1.79	9	1
1:A:104:LEU:HD13	1:A:134:GLN:NE2	0.55	2.17	1	1
1:B:9:THR:HG22	1:C:153:THR:CG2	0.55	2.31	2	1
1:E:23:VAL:HG12	1:F:36:GLN:HB2	0.55	1.78	2	1
1:B:4:THR:HG23	1:C:157:GLN:HG3	0.55	1.79	8	2
1:E:74:LEU:HD11	1:E:155:LYS:HG2	0.55	1.79	6	1
1:B:84:ASN:HA	1:B:113:LEU:HD13	0.55	1.79	9	1
1:E:104:LEU:HD13	1:E:134:GLN:NE2	0.54	2.17	1	1
1:A:88:LEU:HD22	1:A:96:ALA:O	0.54	2.01	7	1
1:C:88:LEU:HD22	1:C:96:ALA:O	0.54	2.01	7	1
1:E:84:ASN:HA	1:E:113:LEU:HD13	0.54	1.79	9	1
1:C:76:THR:HA	1:F:132:PRO:HB3	0.54	1.77	4	4
1:D:104:LEU:HD13	1:D:134:GLN:NE2	0.54	2.17	1	1
1:B:23:VAL:HG12	1:C:36:GLN:HB2	0.54	1.78	2	1
1:A:4:THR:HG23	1:B:157:GLN:HG3	0.54	1.79	8	2
1:E:42:LEU:HD23	1:E:139:ALA:HB2	0.54	1.79	4	2
1:E:70:ALA:HB3	1:E:157:GLN:HB3	0.54	1.80	7	2
1:A:23:VAL:HG12	1:B:36:GLN:HB2	0.54	1.78	2	1
1:D:42:LEU:HD23	1:D:139:ALA:HB2	0.54	1.79	4	2
1:A:56:ILE:HG21	1:A:154:PHE:CZ	0.54	2.38	7	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:23:VAL:HG12	1:E:36:GLN:HB2	0.54	1.78	2	1
1:C:4:THR:HG23	1:D:157:GLN:HG3	0.54	1.79	8	2
1:C:78:ILE:CG2	1:C:85:VAL:HB	0.54	2.33	3	2
1:D:56:ILE:HG21	1:D:154:PHE:CZ	0.54	2.38	7	1
1:E:4:THR:HG23	1:F:157:GLN:HG3	0.54	1.79	8	2
1:D:73:PHE:CD2	1:D:103:ILE:HD13	0.54	2.38	10	1
1:D:70:ALA:HB3	1:D:157:GLN:HB3	0.54	1.80	7	3
1:C:56:ILE:HG21	1:C:154:PHE:CZ	0.54	2.38	7	1
1:F:56:ILE:HG21	1:F:154:PHE:CZ	0.54	2.38	7	1
1:E:131:ILE:HD11	1:E:156:VAL:HG12	0.54	1.80	10	2
1:D:59:ASN:HA	1:D:128:THR:HA	0.54	1.80	8	3
1:F:78:ILE:CG2	1:F:85:VAL:HB	0.54	2.33	3	2
1:A:113:LEU:N	1:A:113:LEU:HD12	0.54	2.18	7	1
1:B:86:LEU:HD11	1:B:152:ALA:HB2	0.54	1.78	8	1
1:A:73:PHE:CD2	1:A:103:ILE:HD13	0.54	2.38	10	1
1:B:80:ALA:HB1	1:E:105:ASP:O	0.54	2.03	1	1
1:F:42:LEU:HD23	1:F:139:ALA:HB2	0.54	1.79	4	2
1:B:43:ALA:HA	1:B:142:ALA:HA	0.54	1.80	6	2
1:B:113:LEU:N	1:B:113:LEU:HD12	0.54	2.18	7	1
1:B:70:ALA:HB3	1:B:157:GLN:HB3	0.54	1.80	7	3
1:C:59:ASN:HA	1:C:128:THR:HA	0.54	1.80	8	3
1:B:42:LEU:HD23	1:B:139:ALA:HB2	0.54	1.79	4	2
1:B:78:ILE:CG2	1:B:85:VAL:HB	0.54	2.33	3	2
1:E:78:ILE:CG2	1:E:85:VAL:HB	0.54	2.33	3	2
1:D:43:ALA:HA	1:D:142:ALA:HA	0.54	1.80	6	1
1:F:113:LEU:N	1:F:113:LEU:HD12	0.54	2.18	7	1
1:E:86:LEU:HD11	1:E:152:ALA:HB2	0.54	1.78	8	1
1:D:56:ILE:HG23	1:D:56:ILE:O	0.54	2.02	4	5
1:A:42:LEU:HD23	1:A:139:ALA:HB2	0.54	1.79	4	2
1:D:78:ILE:CG2	1:D:85:VAL:HB	0.54	2.33	3	2
1:C:84:ASN:HA	1:C:113:LEU:HD13	0.54	1.79	9	1
1:A:56:ILE:HG23	1:A:56:ILE:O	0.53	2.02	4	5
1:A:70:ALA:HB3	1:A:157:GLN:HB3	0.53	1.80	7	3
1:A:80:ALA:HB1	1:D:105:ASP:O	0.53	2.03	1	1
1:E:59:ASN:HA	1:E:128:THR:HA	0.53	1.80	8	3
1:C:42:LEU:HD23	1:C:139:ALA:HB2	0.53	1.79	4	2
1:D:113:LEU:N	1:D:113:LEU:HD12	0.53	2.18	7	1
1:D:131:ILE:HD11	1:D:156:VAL:HG12	0.53	1.80	10	2
1:F:84:ASN:HA	1:F:113:LEU:HD13	0.53	1.79	9	1
1:B:11:HIS:HA	1:C:151:ASP:OD1	0.53	2.03	2	1
1:D:9:THR:HG22	1:E:153:THR:CG2	0.53	2.30	2	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:20:ALA:HB1	1:E:124:LEU:CD2	0.53	2.34	3	1
1:E:42:LEU:HB3	1:E:143:ALA:HB2	0.53	1.80	4	1
1:B:90:SER:HA	1:E:52:VAL:CG1	0.53	2.33	6	1
1:B:72:ALA:HB3	1:B:155:LYS:CB	0.53	2.33	7	1
1:E:73:PHE:CD2	1:E:103:ILE:HD13	0.53	2.38	10	1
1:C:80:ALA:HB1	1:F:105:ASP:O	0.53	2.03	1	1
1:A:82:HIS:O	1:A:84:ASN:N	0.53	2.42	6	1
1:B:82:HIS:O	1:B:84:ASN:N	0.53	2.42	6	1
1:C:90:SER:HA	1:F:52:VAL:CG1	0.53	2.33	6	1
1:F:72:ALA:HB3	1:F:155:LYS:CB	0.53	2.33	7	1
1:F:69:ALA:HB3	1:F:122:THR:O	0.53	2.04	2	1
1:D:82:HIS:O	1:D:84:ASN:N	0.53	2.42	6	1
1:A:72:ALA:HB3	1:A:155:LYS:CB	0.53	2.33	7	1
1:B:56:ILE:HG21	1:B:154:PHE:CZ	0.53	2.38	7	1
1:D:72:ALA:HB3	1:D:155:LYS:CB	0.53	2.33	7	1
1:E:56:ILE:HG21	1:E:154:PHE:CZ	0.53	2.38	7	1
1:E:72:ALA:HB3	1:E:155:LYS:CB	0.53	2.33	7	1
1:B:73:PHE:CD2	1:B:103:ILE:HD13	0.53	2.38	10	1
1:C:73:PHE:CD2	1:C:103:ILE:HD13	0.53	2.38	10	1
1:F:73:PHE:CD2	1:F:103:ILE:HD13	0.53	2.38	10	1
1:A:20:ALA:HB1	1:A:124:LEU:CD2	0.53	2.34	3	1
1:D:20:ALA:HB1	1:D:124:LEU:CD2	0.53	2.34	3	1
1:D:102:GLN:HB2	1:D:138:PHE:CD1	0.53	2.39	5	1
1:A:155:LYS:NZ	1:D:128:THR:HG21	0.53	2.19	7	1
1:F:70:ALA:HB3	1:F:157:GLN:HB3	0.53	1.80	7	3
1:B:20:ALA:HB1	1:B:124:LEU:CD2	0.53	2.34	3	1
1:C:72:ALA:HB3	1:C:155:LYS:CB	0.53	2.33	7	1
1:C:113:LEU:HD12	1:C:113:LEU:N	0.53	2.18	7	1
1:B:69:ALA:HB3	1:B:122:THR:O	0.53	2.04	2	1
1:A:78:ILE:CG2	1:A:85:VAL:HB	0.53	2.33	3	2
1:D:42:LEU:HB3	1:D:143:ALA:HB2	0.53	1.80	4	1
1:B:102:GLN:HB2	1:B:138:PHE:CD1	0.53	2.39	5	1
1:E:102:GLN:HB2	1:E:138:PHE:CD1	0.53	2.39	5	1
1:E:82:HIS:O	1:E:84:ASN:N	0.53	2.42	6	1
1:B:19:ALA:O	1:B:65:VAL:HG21	0.53	2.04	10	1
1:A:11:HIS:HA	1:B:151:ASP:OD1	0.53	2.03	2	1
1:C:69:ALA:HB3	1:C:122:THR:O	0.53	2.04	2	1
1:B:116:ALA:HB2	1:E:129:ASN:HA	0.53	1.80	5	1
1:E:43:ALA:HA	1:E:142:ALA:HA	0.53	1.80	6	1
1:C:155:LYS:NZ	1:F:128:THR:HG21	0.53	2.19	7	1
1:E:19:ALA:O	1:E:65:VAL:HG21	0.53	2.04	10	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:43:ALA:HA	1:C:142:ALA:HA	0.53	1.80	6	2
1:C:116:ALA:HB2	1:F:129:ASN:HA	0.53	1.80	5	1
1:F:43:ALA:HA	1:F:142:ALA:HA	0.53	1.80	6	2
1:F:102:GLN:HB2	1:F:138:PHE:CD1	0.53	2.39	5	1
1:C:70:ALA:HB3	1:C:157:GLN:HB3	0.53	1.80	7	2
1:B:59:ASN:HA	1:B:128:THR:HA	0.53	1.80	8	3
1:E:11:HIS:HA	1:F:151:ASP:OD1	0.53	2.03	2	1
1:C:42:LEU:HB3	1:C:143:ALA:HB2	0.53	1.80	4	1
1:C:19:ALA:HA	1:D:38:ARG:HG2	0.52	1.80	7	1
1:D:19:ALA:HA	1:E:38:ARG:HG2	0.52	1.80	7	1
1:E:113:LEU:HD12	1:E:113:LEU:N	0.52	2.18	7	1
1:C:9:THR:HG22	1:D:153:THR:CG2	0.52	2.30	2	1
1:E:69:ALA:HB3	1:E:122:THR:O	0.52	2.04	2	1
1:A:42:LEU:HB3	1:A:143:ALA:HB2	0.52	1.80	4	1
1:A:102:GLN:HB2	1:A:138:PHE:CD1	0.52	2.39	5	1
1:A:131:ILE:HD11	1:A:156:VAL:HG12	0.52	1.80	10	2
1:C:11:HIS:HA	1:D:151:ASP:OD1	0.52	2.03	2	1
1:D:11:HIS:HA	1:E:151:ASP:OD1	0.52	2.04	2	1
1:D:70:ALA:HB1	1:D:118:PHE:HB3	0.52	1.81	3	1
1:A:85:VAL:HB	1:A:100:GLY:HA3	0.52	1.82	5	1
1:C:102:GLN:HB2	1:C:138:PHE:CD1	0.52	2.39	5	1
1:A:43:ALA:HA	1:A:142:ALA:HA	0.52	1.80	6	1
1:A:90:SER:HA	1:D:52:VAL:CG1	0.52	2.33	6	1
1:B:155:LYS:NZ	1:E:128:THR:HG21	0.52	2.19	7	1
1:F:131:ILE:HD11	1:F:156:VAL:HG12	0.52	1.80	10	1
1:C:70:ALA:HB1	1:C:118:PHE:HB3	0.52	1.81	3	1
1:B:19:ALA:HA	1:C:38:ARG:HG2	0.52	1.80	7	1
1:E:71:VAL:CG1	1:E:131:ILE:HG21	0.52	2.35	1	1
1:A:78:ILE:O	1:D:134:GLN:HG2	0.52	2.05	5	1
1:A:59:ASN:HA	1:A:128:THR:HA	0.52	1.80	8	3
1:A:69:ALA:HB3	1:A:122:THR:O	0.52	2.04	2	1
1:E:9:THR:HG22	1:F:153:THR:CG2	0.52	2.30	2	1
1:A:70:ALA:HB1	1:A:118:PHE:HB3	0.52	1.81	3	1
1:B:42:LEU:HB3	1:B:143:ALA:HB2	0.52	1.80	4	1
1:F:82:HIS:O	1:F:84:ASN:N	0.52	2.42	6	1
1:C:6:ASN:HA	1:D:155:LYS:HE2	0.52	1.81	9	1
1:A:19:ALA:O	1:A:65:VAL:HG21	0.52	2.04	10	1
1:D:69:ALA:HB3	1:D:122:THR:O	0.52	2.04	2	1
1:A:19:ALA:HA	1:B:38:ARG:HG2	0.52	1.81	7	1
1:E:19:ALA:HA	1:F:38:ARG:HG2	0.52	1.80	7	1
1:C:19:ALA:O	1:C:65:VAL:HG21	0.52	2.04	10	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:19:ALA:O	1:F:65:VAL:HG21	0.52	2.04	10	1
1:B:71:VAL:CG1	1:B:131:ILE:HG21	0.52	2.35	1	1
1:C:20:ALA:HB1	1:C:124:LEU:CD2	0.52	2.34	3	1
1:A:116:ALA:HB2	1:D:129:ASN:HA	0.52	1.80	5	1
1:B:78:ILE:O	1:E:134:GLN:HG2	0.52	2.05	5	1
1:C:82:HIS:O	1:C:84:ASN:N	0.52	2.42	6	1
1:B:131:ILE:HD11	1:B:156:VAL:HG12	0.52	1.80	10	2
1:A:6:ASN:HA	1:B:155:LYS:HE2	0.52	1.81	9	1
1:D:39:THR:HA	1:D:143:ALA:HB3	0.52	1.82	3	1
1:C:131:ILE:HD11	1:C:156:VAL:HG12	0.52	1.80	10	1
1:D:19:ALA:O	1:D:65:VAL:HG21	0.52	2.04	10	1
1:F:20:ALA:HB1	1:F:124:LEU:CD2	0.52	2.34	3	1
1:F:42:LEU:HB3	1:F:143:ALA:HB2	0.52	1.80	4	1
1:C:101:VAL:HG22	1:C:137:TYR:CE1	0.52	2.41	5	1
1:C:71:VAL:CG1	1:C:131:ILE:HG21	0.51	2.35	1	1
1:F:71:VAL:CG1	1:F:131:ILE:HG21	0.51	2.35	1	1
1:F:59:ASN:HA	1:F:128:THR:HA	0.51	1.80	8	3
1:D:101:VAL:HG22	1:D:137:TYR:CE1	0.51	2.41	5	1
1:E:85:VAL:HB	1:E:100:GLY:HA3	0.51	1.82	5	1
1:F:70:ALA:HB1	1:F:118:PHE:HB3	0.51	1.81	3	1
1:B:88:LEU:HB3	1:B:148:ALA:HA	0.51	1.83	5	1
1:B:83:THR:HG21	1:B:114:ASP:OD1	0.51	2.05	8	1
1:A:71:VAL:CG1	1:A:131:ILE:HG21	0.51	2.35	1	1
1:A:101:VAL:HG22	1:A:137:TYR:CE1	0.51	2.40	5	1
1:C:78:ILE:O	1:F:134:GLN:HG2	0.51	2.05	5	1
1:C:85:VAL:HB	1:C:100:GLY:HA3	0.51	1.82	5	1
1:C:83:THR:HG21	1:C:114:ASP:OD1	0.51	2.05	8	1
1:C:86:LEU:HD23	1:C:87:ALA:N	0.51	2.21	10	1
1:E:39:THR:HA	1:E:143:ALA:HB3	0.51	1.81	3	1
1:A:24:ASP:O	1:A:28:VAL:HG23	0.51	2.06	6	3
1:F:24:ASP:O	1:F:28:VAL:HG23	0.51	2.06	6	3
1:F:101:VAL:HG22	1:F:137:TYR:CE1	0.51	2.41	5	1
1:F:39:THR:HA	1:F:143:ALA:HB3	0.51	1.82	3	1
1:B:48:THR:HA	1:B:137:TYR:O	0.51	2.06	5	1
1:D:48:THR:HA	1:D:137:TYR:O	0.51	2.06	5	1
1:F:83:THR:HG21	1:F:114:ASP:OD1	0.51	2.05	8	1
1:D:6:ASN:HA	1:E:155:LYS:HE2	0.51	1.82	9	1
1:B:5:VAL:HG23	1:C:156:VAL:HG22	0.51	1.83	1	1
1:D:71:VAL:CG1	1:D:131:ILE:HG21	0.51	2.35	1	1
1:E:101:VAL:HG22	1:E:137:TYR:CE1	0.51	2.41	5	1
1:E:15:GLU:HB3	1:F:36:GLN:HG3	0.51	1.83	8	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:112:THR:HB	1:F:117:THR:HG21	0.51	1.82	9	1
1:C:144:THR:HG22	1:C:145:PRO:CD	0.51	2.36	2	1
1:A:48:THR:HA	1:A:137:TYR:O	0.51	2.06	5	1
1:B:85:VAL:HB	1:B:100:GLY:HA3	0.51	1.82	5	1
1:C:124:LEU:HG	1:C:129:ASN:ND2	0.51	2.21	5	1
1:E:88:LEU:HB3	1:E:148:ALA:HA	0.51	1.83	5	1
1:F:85:VAL:HB	1:F:100:GLY:HA3	0.51	1.82	5	1
1:D:83:THR:HG21	1:D:114:ASP:OD1	0.51	2.05	8	1
1:E:83:THR:HG21	1:E:114:ASP:OD1	0.51	2.05	8	1
1:E:6:ASN:HA	1:F:155:LYS:HE2	0.51	1.81	9	1
1:E:70:ALA:HB1	1:E:118:PHE:HB3	0.51	1.81	3	1
1:B:90:SER:O	1:E:52:VAL:HG22	0.51	2.06	5	1
1:D:24:ASP:O	1:D:28:VAL:HG23	0.51	2.06	6	3
1:A:83:THR:HG21	1:A:114:ASP:OD1	0.51	2.05	8	1
1:D:91:SER:HA	1:F:25:ALA:HB2	0.51	1.83	8	1
1:A:112:THR:HB	1:A:117:THR:HG21	0.51	1.82	9	1
1:B:6:ASN:HA	1:C:155:LYS:HE2	0.51	1.82	9	1
1:B:112:THR:HB	1:B:117:THR:HG21	0.51	1.82	9	1
1:E:86:LEU:HD23	1:E:87:ALA:N	0.51	2.21	10	1
1:E:91:SER:O	1:E:95:SER:HB2	0.50	2.06	4	3
1:D:144:THR:HG22	1:D:145:PRO:CD	0.50	2.36	2	1
1:C:22:ALA:HA	1:D:36:GLN:HB2	0.50	1.84	5	1
1:C:90:SER:O	1:F:52:VAL:HG22	0.50	2.06	5	1
1:D:85:VAL:HB	1:D:100:GLY:HA3	0.50	1.82	5	1
1:E:124:LEU:HG	1:E:129:ASN:ND2	0.50	2.21	5	1
1:B:114:ASP:O	1:E:130:THR:O	0.50	2.28	6	1
1:C:45:GLU:N	1:C:141:GLY:HA2	0.50	2.22	6	1
1:A:91:SER:HA	1:C:25:ALA:HB2	0.50	1.83	8	1
1:D:86:LEU:HD23	1:D:87:ALA:N	0.50	2.21	10	1
1:B:39:THR:HA	1:B:143:ALA:HB3	0.50	1.81	3	1
1:B:62:ASP:OD2	1:B:65:VAL:HG23	0.50	2.07	3	1
1:E:45:GLU:N	1:E:141:GLY:HA2	0.50	2.22	6	1
1:C:112:THR:HB	1:C:117:THR:HG21	0.50	1.82	9	1
1:B:86:LEU:HD23	1:B:87:ALA:N	0.50	2.21	10	1
1:A:114:ASP:O	1:D:130:THR:O	0.50	2.28	6	1
1:C:114:ASP:O	1:F:130:THR:O	0.50	2.28	6	1
1:F:69:ALA:CB	1:F:124:LEU:HD13	0.50	2.36	8	1
1:A:86:LEU:HD23	1:A:87:ALA:N	0.50	2.21	10	1
1:B:15:GLU:HB3	1:C:36:GLN:HG3	0.50	1.83	8	2
1:B:101:VAL:HG22	1:B:137:TYR:CE1	0.50	2.41	5	1
1:D:124:LEU:HG	1:D:129:ASN:ND2	0.50	2.21	5	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:48:THR:HA	1:E:137:TYR:O	0.50	2.06	5	1
1:F:86:LEU:HD23	1:F:87:ALA:N	0.50	2.21	10	1
1:C:91:SER:O	1:C:95:SER:HB2	0.50	2.06	4	3
1:B:24:ASP:O	1:B:28:VAL:HG23	0.50	2.06	6	3
1:D:45:GLU:N	1:D:141:GLY:HA2	0.50	2.22	6	1
1:D:112:THR:HB	1:D:117:THR:HG21	0.50	1.82	9	1
1:A:91:SER:O	1:A:95:SER:HB2	0.50	2.07	4	3
1:B:15:GLU:HG2	1:C:146:GLY:O	0.50	2.07	3	1
1:C:39:THR:HA	1:C:143:ALA:HB3	0.50	1.81	3	1
1:A:124:LEU:HG	1:A:129:ASN:ND2	0.50	2.21	5	1
1:F:48:THR:HA	1:F:137:TYR:O	0.50	2.06	5	1
1:E:112:THR:HB	1:E:117:THR:HG21	0.50	1.82	9	1
1:A:5:VAL:HG23	1:B:156:VAL:HG22	0.50	1.83	1	1
1:A:39:THR:HA	1:A:143:ALA:HB3	0.50	1.81	3	1
1:D:62:ASP:OD2	1:D:65:VAL:HG23	0.50	2.07	3	1
1:C:88:LEU:HB3	1:C:148:ALA:HA	0.50	1.83	5	1
1:A:45:GLU:N	1:A:141:GLY:HA2	0.50	2.22	6	1
1:E:5:VAL:HG23	1:F:156:VAL:HG22	0.50	1.83	1	1
1:E:62:ASP:OD2	1:E:65:VAL:HG23	0.50	2.07	3	1
1:A:22:ALA:HA	1:B:36:GLN:HB2	0.50	1.83	5	1
1:A:15:GLU:HB3	1:B:36:GLN:HG3	0.50	1.83	8	1
1:B:91:SER:HA	1:D:25:ALA:HB2	0.50	1.83	8	1
1:B:91:SER:O	1:B:95:SER:HB2	0.50	2.07	4	2
1:B:124:LEU:HG	1:B:129:ASN:ND2	0.50	2.21	5	1
1:D:22:ALA:HA	1:E:36:GLN:HB2	0.50	1.83	5	1
1:F:124:LEU:HG	1:F:129:ASN:ND2	0.50	2.21	5	1
1:C:24:ASP:O	1:C:28:VAL:HG23	0.49	2.06	6	3
1:C:91:SER:HA	1:E:25:ALA:HB2	0.49	1.83	8	1
1:F:91:SER:O	1:F:95:SER:HB2	0.49	2.06	4	3
1:A:9:THR:CG2	1:B:153:THR:HG23	0.49	2.31	3	1
1:C:48:THR:HA	1:C:137:TYR:O	0.49	2.06	5	1
1:D:88:LEU:HB3	1:D:148:ALA:HA	0.49	1.83	5	1
1:E:22:ALA:HA	1:F:36:GLN:HB2	0.49	1.83	5	1
1:B:42:LEU:HD21	1:B:137:TYR:HB3	0.49	1.83	2	1
1:B:144:THR:HG22	1:B:145:PRO:CD	0.49	2.36	2	1
1:D:42:LEU:HD21	1:D:137:TYR:HB3	0.49	1.83	2	1
1:E:42:LEU:HD21	1:E:137:TYR:HB3	0.49	1.83	2	1
1:F:144:THR:HG22	1:F:145:PRO:CD	0.49	2.36	2	1
1:A:90:SER:O	1:D:52:VAL:HG22	0.49	2.06	5	1
1:E:24:ASP:O	1:E:28:VAL:HG23	0.49	2.06	6	3
1:F:39:THR:HA	1:F:42:LEU:HD12	0.49	1.84	6	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:VAL:HG21	1:A:21:CYS:O	0.49	2.07	7	1
1:B:4:THR:HG21	1:F:127:GLY:CA	0.49	2.37	8	1
1:F:69:ALA:HA	1:F:157:GLN:O	0.49	2.08	10	1
1:B:70:ALA:HB1	1:B:118:PHE:HB3	0.49	1.81	3	1
1:C:9:THR:CG2	1:D:153:THR:HG23	0.49	2.31	3	1
1:E:15:GLU:HG2	1:F:146:GLY:O	0.49	2.07	3	1
1:C:39:THR:HA	1:C:42:LEU:HD12	0.49	1.85	6	1
1:C:19:ALA:O	1:C:62:ASP:HB2	0.49	2.08	8	1
1:A:69:ALA:HA	1:A:157:GLN:O	0.49	2.08	10	1
1:D:69:ALA:HA	1:D:157:GLN:O	0.49	2.08	10	1
1:E:5:VAL:HG23	1:F:156:VAL:CG2	0.49	2.38	1	1
1:E:21:CYS:HB2	1:E:158:TYR:CE1	0.49	2.43	2	3
1:F:21:CYS:HB2	1:F:158:TYR:CE1	0.49	2.43	2	3
1:D:57:GLN:HA	1:D:130:THR:HG22	0.49	1.84	6	1
1:F:45:GLU:N	1:F:141:GLY:HA2	0.49	2.22	6	1
1:D:73:PHE:HB2	1:D:111:LEU:HD11	0.49	1.84	7	1
1:B:69:ALA:HA	1:B:157:GLN:O	0.49	2.08	10	1
1:A:5:VAL:HG23	1:B:156:VAL:CG2	0.49	2.38	1	1
1:F:42:LEU:HD21	1:F:137:TYR:HB3	0.49	1.83	2	1
1:A:62:ASP:OD2	1:A:65:VAL:HG23	0.49	2.07	3	1
1:D:9:THR:CG2	1:E:153:THR:HG23	0.49	2.31	3	1
1:C:71:VAL:O	1:C:118:PHE:HA	0.49	2.08	4	1
1:F:88:LEU:HB3	1:F:148:ALA:HA	0.49	1.83	5	1
1:B:45:GLU:N	1:B:141:GLY:HA2	0.49	2.22	6	1
1:D:72:ALA:HB1	1:D:116:ALA:HA	0.49	1.85	6	1
1:C:17:VAL:HG21	1:C:21:CYS:O	0.49	2.07	7	1
1:E:17:VAL:HG21	1:E:21:CYS:O	0.49	2.07	7	1
1:F:19:ALA:O	1:F:62:ASP:HB2	0.49	2.08	8	1
1:C:5:VAL:HG23	1:D:156:VAL:CG2	0.49	2.38	1	1
1:C:62:ASP:OD2	1:C:65:VAL:HG23	0.49	2.07	3	1
1:E:71:VAL:O	1:E:118:PHE:HA	0.49	2.08	4	1
1:F:71:VAL:O	1:F:118:PHE:HA	0.49	2.08	4	1
1:D:19:ALA:O	1:D:62:ASP:HB2	0.49	2.08	8	1
1:C:69:ALA:HA	1:C:157:GLN:O	0.49	2.08	10	1
1:B:21:CYS:HB2	1:B:158:TYR:CE1	0.49	2.43	2	3
1:C:15:GLU:HG2	1:D:146:GLY:O	0.49	2.07	3	1
1:F:62:ASP:OD2	1:F:65:VAL:HG23	0.49	2.07	3	1
1:D:71:VAL:O	1:D:118:PHE:HA	0.49	2.08	4	1
1:B:22:ALA:HA	1:C:36:GLN:HB2	0.49	1.83	5	1
1:B:72:ALA:HB1	1:B:116:ALA:HA	0.49	1.84	6	1
1:C:57:GLN:HA	1:C:130:THR:HG22	0.49	1.84	6	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:73:PHE:HB2	1:A:111:LEU:HD11	0.49	1.84	7	1
1:E:69:ALA:CB	1:E:124:LEU:HD13	0.49	2.36	8	1
1:B:56:ILE:HG21	1:B:131:ILE:HD12	0.49	1.85	10	1
1:E:56:ILE:HG21	1:E:131:ILE:HD12	0.49	1.85	10	1
1:E:69:ALA:HA	1:E:157:GLN:O	0.49	2.08	10	1
1:C:5:VAL:HG23	1:D:156:VAL:HG22	0.49	1.83	1	1
1:A:144:THR:HG22	1:A:145:PRO:CD	0.49	2.36	2	1
1:C:21:CYS:HB2	1:C:158:TYR:CE1	0.49	2.43	2	3
1:B:56:ILE:O	1:B:58:LEU:HD12	0.49	2.08	5	1
1:E:56:ILE:O	1:E:58:LEU:HD12	0.49	2.08	5	1
1:A:39:THR:HA	1:A:42:LEU:HD12	0.49	1.85	6	1
1:D:39:THR:HA	1:D:42:LEU:HD12	0.49	1.85	6	1
1:D:56:ILE:O	1:D:130:THR:HA	0.49	2.08	6	1
1:D:15:GLU:HB3	1:E:36:GLN:HG3	0.49	1.83	8	1
1:D:69:ALA:CB	1:D:124:LEU:HD13	0.49	2.36	8	1
1:B:5:VAL:HG23	1:C:156:VAL:CG2	0.49	2.38	1	1
1:B:69:ALA:HB3	1:B:122:THR:HB	0.49	1.85	1	2
1:D:5:VAL:HG23	1:E:156:VAL:CG2	0.49	2.38	1	1
1:D:91:SER:O	1:D:95:SER:HB2	0.49	2.07	4	3
1:A:42:LEU:HD21	1:A:137:TYR:HB3	0.49	1.83	2	1
1:E:144:THR:HG22	1:E:145:PRO:CD	0.49	2.36	2	1
1:A:88:LEU:HB3	1:A:148:ALA:HA	0.49	1.83	5	1
1:A:56:ILE:O	1:A:130:THR:HA	0.49	2.08	6	1
1:A:19:ALA:O	1:A:62:ASP:HB2	0.49	2.08	8	1
1:E:19:ALA:O	1:E:62:ASP:HB2	0.49	2.08	8	1
1:A:79:ASP:O	1:A:81:GLY:N	0.49	2.46	10	1
1:C:79:ASP:O	1:C:81:GLY:N	0.49	2.46	10	1
1:A:21:CYS:HB2	1:A:158:TYR:CE1	0.48	2.43	2	2
1:C:42:LEU:HB2	1:C:139:ALA:HB2	0.48	1.84	6	1
1:A:20:ALA:O	1:A:124:LEU:HD21	0.48	2.08	3	2
1:B:20:ALA:O	1:B:124:LEU:HD21	0.48	2.08	3	2
1:A:15:GLU:HG2	1:B:146:GLY:O	0.48	2.07	3	1
1:A:103:ILE:HD12	1:A:111:LEU:HB3	0.48	1.86	3	1
1:C:15:GLU:HB3	1:D:36:GLN:HG3	0.48	1.83	8	2
1:A:56:ILE:O	1:A:58:LEU:HD12	0.48	2.08	5	1
1:F:57:GLN:HA	1:F:130:THR:HG22	0.48	1.84	6	1
1:B:79:ASP:O	1:B:81:GLY:N	0.48	2.46	10	1
1:F:56:ILE:HG21	1:F:131:ILE:HD12	0.48	1.85	10	1
1:F:79:ASP:O	1:F:81:GLY:N	0.48	2.46	10	1
1:D:5:VAL:HG23	1:E:156:VAL:HG22	0.48	1.83	1	1
1:D:15:GLU:HG2	1:E:146:GLY:O	0.48	2.07	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:56:ILE:O	1:C:58:LEU:HD12	0.48	2.08	5	1
1:D:56:ILE:O	1:D:58:LEU:HD12	0.48	2.08	5	1
1:C:16:VAL:HA	1:D:37:VAL:O	0.48	2.09	6	1
1:D:16:VAL:HA	1:E:37:VAL:O	0.48	2.09	6	1
1:D:42:LEU:HB2	1:D:139:ALA:HB2	0.48	1.84	6	1
1:D:17:VAL:HG21	1:D:21:CYS:O	0.48	2.07	7	1
1:D:78:ILE:HG23	1:D:79:ASP:N	0.48	2.24	1	2
1:D:20:ALA:O	1:D:124:LEU:HD21	0.48	2.08	3	2
1:F:20:ALA:O	1:F:124:LEU:HD21	0.48	2.08	3	2
1:D:103:ILE:HD12	1:D:111:LEU:HB3	0.48	1.86	3	1
1:B:71:VAL:O	1:B:118:PHE:HA	0.48	2.08	4	1
1:A:16:VAL:HA	1:B:37:VAL:O	0.48	2.09	6	1
1:A:4:THR:HG21	1:E:127:GLY:CA	0.48	2.37	8	1
1:D:79:ASP:O	1:D:81:GLY:N	0.48	2.46	10	1
1:D:21:CYS:HB2	1:D:158:TYR:CE1	0.48	2.43	2	3
1:B:3:THR:OG1	1:C:158:TYR:HB2	0.48	2.09	5	1
1:F:56:ILE:O	1:F:58:LEU:HD12	0.48	2.08	5	1
1:B:42:LEU:HB2	1:B:139:ALA:HB2	0.48	1.84	6	1
1:C:56:ILE:O	1:C:130:THR:HA	0.48	2.08	6	1
1:B:73:PHE:HB2	1:B:111:LEU:HD11	0.48	1.84	7	1
1:E:144:THR:HB	1:E:145:PRO:CD	0.48	2.39	9	1
1:C:56:ILE:HG21	1:C:131:ILE:HD12	0.48	1.85	10	1
1:C:20:ALA:O	1:C:124:LEU:HD21	0.48	2.08	3	2
1:C:42:LEU:HD21	1:C:137:TYR:HB3	0.48	1.83	2	1
1:A:57:GLN:HA	1:A:130:THR:HG22	0.48	1.84	6	1
1:A:72:ALA:HB1	1:A:116:ALA:HA	0.48	1.85	6	1
1:F:73:PHE:HB2	1:F:111:LEU:HD11	0.48	1.84	7	1
1:C:144:THR:HB	1:C:145:PRO:CD	0.48	2.39	9	1
1:A:69:ALA:HB3	1:A:122:THR:HB	0.48	1.85	1	2
1:E:78:ILE:HG23	1:E:79:ASP:N	0.48	2.24	1	2
1:C:103:ILE:HD12	1:C:111:LEU:HB3	0.48	1.86	3	1
1:A:71:VAL:O	1:A:118:PHE:HA	0.48	2.08	4	1
1:A:42:LEU:HB2	1:A:139:ALA:HB2	0.48	1.84	6	1
1:B:57:GLN:HA	1:B:130:THR:HG22	0.48	1.84	6	1
1:C:72:ALA:HB1	1:C:116:ALA:HA	0.48	1.85	6	1
1:E:39:THR:HA	1:E:42:LEU:HD12	0.48	1.84	6	1
1:E:57:GLN:HA	1:E:130:THR:HG22	0.48	1.84	6	1
1:E:72:ALA:HB1	1:E:116:ALA:HA	0.48	1.84	6	1
1:B:17:VAL:HG21	1:B:21:CYS:O	0.48	2.07	7	1
1:F:17:VAL:HG21	1:F:21:CYS:O	0.48	2.07	7	1
1:F:144:THR:HB	1:F:145:PRO:CD	0.48	2.39	9	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:3:THR:OG1	1:D:158:TYR:HB2	0.48	2.09	5	1
1:D:3:THR:OG1	1:E:158:TYR:HB2	0.48	2.09	5	1
1:B:39:THR:HA	1:B:42:LEU:HD12	0.48	1.84	6	1
1:E:20:ALA:O	1:E:124:LEU:HD21	0.48	2.08	3	2
1:C:12:PHE:HA	1:D:32:VAL:O	0.48	2.09	6	1
1:B:78:ILE:HG23	1:B:79:ASP:N	0.48	2.24	1	2
1:C:78:ILE:HG23	1:C:79:ASP:N	0.48	2.24	1	2
1:B:158:TYR:C	1:B:159:GLN:HG3	0.48	2.30	3	1
1:E:158:TYR:C	1:E:159:GLN:HG3	0.48	2.30	3	1
1:A:3:THR:HB	1:B:158:TYR:CD2	0.48	2.44	4	1
1:E:56:ILE:O	1:E:130:THR:HA	0.48	2.08	6	1
1:F:42:LEU:HB2	1:F:139:ALA:HB2	0.48	1.84	6	1
1:A:34:LEU:N	1:A:34:LEU:HD22	0.48	2.24	7	1
1:D:34:LEU:N	1:D:34:LEU:HD22	0.48	2.24	7	1
1:E:73:PHE:HB2	1:E:111:LEU:HD11	0.48	1.84	7	1
1:D:20:ALA:O	1:D:61:CYS:HA	0.47	2.09	1	2
1:F:103:ILE:HD12	1:F:111:LEU:HB3	0.47	1.86	3	1
1:E:16:VAL:HA	1:F:37:VAL:O	0.47	2.09	6	1
1:F:56:ILE:O	1:F:130:THR:HA	0.47	2.08	6	1
1:B:19:ALA:O	1:B:62:ASP:HB2	0.47	2.08	8	1
1:B:144:THR:HB	1:B:145:PRO:CD	0.47	2.39	9	1
1:B:74:LEU:O	1:B:152:ALA:HA	0.47	2.09	2	3
1:B:3:THR:HB	1:C:158:TYR:CD2	0.47	2.45	4	1
1:B:56:ILE:O	1:B:130:THR:HA	0.47	2.08	6	1
1:E:42:LEU:HB2	1:E:139:ALA:HB2	0.47	1.84	6	1
1:A:144:THR:HB	1:A:145:PRO:CD	0.47	2.39	9	1
1:E:79:ASP:O	1:E:81:GLY:N	0.47	2.46	10	1
1:A:74:LEU:O	1:A:152:ALA:HA	0.47	2.09	2	2
1:A:23:VAL:HA	1:A:58:LEU:HA	0.47	1.86	3	1
1:A:3:THR:OG1	1:B:158:TYR:HB2	0.47	2.09	5	1
1:F:72:ALA:HB1	1:F:116:ALA:HA	0.47	1.85	6	1
1:C:73:PHE:HB2	1:C:111:LEU:HD11	0.47	1.84	7	1
1:A:20:ALA:O	1:A:61:CYS:HA	0.47	2.09	1	2
1:F:74:LEU:O	1:F:152:ALA:HA	0.47	2.09	2	2
1:C:158:TYR:C	1:C:159:GLN:HG3	0.47	2.30	3	1
1:F:158:TYR:C	1:F:159:GLN:HG3	0.47	2.30	3	1
1:E:3:THR:OG1	1:F:158:TYR:HB2	0.47	2.09	5	1
1:E:55:ASN:OD1	1:E:130:THR:HG21	0.47	2.10	8	1
1:D:144:THR:HB	1:D:145:PRO:CD	0.47	2.39	9	1
1:A:47:ALA:HB3	1:A:139:ALA:HB3	0.47	1.86	10	1
1:A:155:LYS:HE2	1:D:128:THR:HG21	0.47	1.87	6	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:71:VAL:HG21	1:A:131:ILE:CG2	0.47	2.40	8	1
1:E:71:VAL:HG21	1:E:131:ILE:CG2	0.47	2.40	8	1
1:F:71:VAL:HG21	1:F:131:ILE:CG2	0.47	2.40	8	1
1:D:15:GLU:HG2	1:E:147:ALA:HA	0.47	1.87	9	1
1:D:74:LEU:O	1:D:152:ALA:HA	0.47	2.09	2	2
1:D:23:VAL:HA	1:D:58:LEU:HA	0.47	1.86	3	1
1:E:103:ILE:HD12	1:E:111:LEU:HB3	0.47	1.86	3	1
1:B:16:VAL:HA	1:C:37:VAL:O	0.47	2.09	6	1
1:D:12:PHE:HA	1:E:32:VAL:O	0.47	2.09	6	1
1:A:55:ASN:OD1	1:A:130:THR:HG21	0.47	2.10	8	1
1:B:71:VAL:HG21	1:B:131:ILE:CG2	0.47	2.40	8	1
1:D:47:ALA:HB3	1:D:139:ALA:HB3	0.47	1.86	10	1
1:B:20:ALA:O	1:B:61:CYS:HA	0.47	2.09	1	1
1:E:69:ALA:HB3	1:E:122:THR:HB	0.47	1.85	1	2
1:E:118:PHE:CZ	1:E:155:LYS:HB3	0.47	2.45	1	1
1:F:20:ALA:O	1:F:61:CYS:HA	0.47	2.09	1	2
1:F:78:ILE:HG23	1:F:79:ASP:N	0.47	2.24	1	2
1:A:158:TYR:C	1:A:159:GLN:HG3	0.47	2.30	3	1
1:B:9:THR:CG2	1:C:153:THR:HG23	0.47	2.31	3	1
1:A:52:VAL:HG13	1:A:135:ALA:O	0.47	2.10	10	2
1:B:52:VAL:HG13	1:B:135:ALA:O	0.47	2.10	4	2
1:C:3:THR:HB	1:D:158:TYR:CD2	0.47	2.44	4	1
1:C:52:VAL:HG13	1:C:135:ALA:O	0.47	2.10	10	2
1:D:52:VAL:HG13	1:D:135:ALA:O	0.47	2.10	4	2
1:C:34:LEU:N	1:C:34:LEU:HD22	0.47	2.24	7	1
1:E:34:LEU:N	1:E:34:LEU:HD22	0.47	2.24	7	1
1:C:71:VAL:HG21	1:C:131:ILE:CG2	0.47	2.40	8	1
1:C:85:VAL:HG22	1:C:102:GLN:HB2	0.47	1.87	8	1
1:F:85:VAL:HG22	1:F:102:GLN:HB2	0.47	1.87	8	1
1:A:56:ILE:HG21	1:A:131:ILE:HD12	0.47	1.85	10	1
1:A:78:ILE:HG23	1:A:79:ASP:N	0.47	2.24	1	2
1:B:118:PHE:CZ	1:B:155:LYS:HB3	0.47	2.45	1	1
1:C:69:ALA:HB3	1:C:122:THR:HB	0.47	1.85	1	2
1:E:97:THR:O	1:E:98:ASN:HB2	0.47	2.10	10	2
1:E:23:VAL:CA	1:E:58:LEU:HG	0.47	2.40	3	2
1:A:72:ALA:HA	1:A:111:LEU:HD21	0.47	1.86	4	1
1:D:3:THR:HB	1:E:158:TYR:CD2	0.47	2.44	4	1
1:E:3:THR:HB	1:F:158:TYR:CD2	0.47	2.44	4	1
1:E:12:PHE:HA	1:F:32:VAL:O	0.47	2.09	6	1
1:E:5:VAL:CG2	1:F:17:VAL:HG12	0.47	2.40	8	1
1:D:56:ILE:HG21	1:D:131:ILE:HD12	0.47	1.85	10	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:79:ASP:HB2	1:B:140:THR:HG21	0.47	1.86	5	2
1:B:116:ALA:HB3	1:E:129:ASN:OD1	0.47	2.10	1	1
1:B:6:ASN:OD1	1:C:154:PHE:O	0.47	2.33	2	1
1:B:97:THR:O	1:B:98:ASN:HB2	0.47	2.10	10	2
1:C:97:THR:O	1:C:98:ASN:HB2	0.47	2.10	10	2
1:E:6:ASN:OD1	1:F:154:PHE:O	0.47	2.33	2	1
1:E:74:LEU:O	1:E:152:ALA:HA	0.47	2.09	2	2
1:B:103:ILE:HD12	1:B:111:LEU:HB3	0.47	1.86	3	1
1:D:23:VAL:CA	1:D:58:LEU:HG	0.47	2.40	3	2
1:E:52:VAL:HG13	1:E:135:ALA:O	0.47	2.10	4	2
1:C:32:VAL:HG11	1:C:52:VAL:HG11	0.47	1.87	5	1
1:F:37:VAL:CG1	1:F:42:LEU:HD21	0.47	2.40	5	1
1:B:2:ALA:HB2	1:C:159:GLN:HG3	0.47	1.87	6	1
1:F:82:HIS:NE2	1:F:139:ALA:O	0.47	2.48	7	1
1:C:55:ASN:OD1	1:C:130:THR:HG21	0.47	2.10	8	1
1:E:47:ALA:HB3	1:E:139:ALA:HB3	0.47	1.86	10	1
1:A:6:ASN:OD1	1:B:154:PHE:O	0.47	2.33	2	1
1:A:97:THR:O	1:A:98:ASN:HB2	0.47	2.10	10	2
1:D:6:ASN:OD1	1:E:154:PHE:O	0.47	2.33	2	1
1:F:97:THR:O	1:F:98:ASN:HB2	0.47	2.10	10	2
1:A:23:VAL:CA	1:A:58:LEU:HG	0.47	2.40	3	2
1:B:23:VAL:CA	1:B:58:LEU:HG	0.47	2.40	3	2
1:E:23:VAL:HA	1:E:58:LEU:HA	0.47	1.86	3	1
1:F:52:VAL:HG13	1:F:135:ALA:O	0.47	2.10	10	2
1:E:44:GLN:CG	1:E:47:ALA:HB2	0.47	2.40	5	1
1:D:16:VAL:HB	1:E:144:THR:O	0.47	2.10	7	1
1:A:97:THR:O	1:A:99:VAL:HG23	0.47	2.10	8	1
1:B:5:VAL:CG2	1:C:17:VAL:HG12	0.47	2.40	8	1
1:C:69:ALA:CB	1:C:124:LEU:HD13	0.47	2.36	8	1
1:E:97:THR:O	1:E:99:VAL:HG23	0.47	2.10	8	1
1:F:55:ASN:OD1	1:F:130:THR:HG21	0.47	2.10	8	1
1:C:6:ASN:OD1	1:D:154:PHE:O	0.46	2.33	2	1
1:A:44:GLN:CG	1:A:47:ALA:HB2	0.46	2.40	5	1
1:C:115:GLY:HA3	1:F:130:THR:OG1	0.46	2.10	5	3
1:D:44:GLN:CG	1:D:47:ALA:HB2	0.46	2.41	5	1
1:C:2:ALA:HB2	1:D:159:GLN:HG3	0.46	1.87	6	1
1:B:34:LEU:N	1:B:34:LEU:HD22	0.46	2.24	7	1
1:F:34:LEU:HD22	1:F:34:LEU:N	0.46	2.24	7	1
1:A:15:GLU:HG2	1:B:147:ALA:HA	0.46	1.86	9	1
1:B:23:VAL:HA	1:B:58:LEU:HA	0.46	1.86	3	1
1:D:158:TYR:C	1:D:159:GLN:HG3	0.46	2.30	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:72:ALA:HA	1:C:111:LEU:HD21	0.46	1.87	4	1
1:F:72:ALA:HA	1:F:111:LEU:HD21	0.46	1.87	4	1
1:B:37:VAL:CG1	1:B:42:LEU:HD21	0.46	2.40	5	1
1:C:37:VAL:CG1	1:C:42:LEU:HD21	0.46	2.41	5	1
1:B:12:PHE:HA	1:C:32:VAL:O	0.46	2.09	6	1
1:B:68:LYS:HB3	1:B:159:GLN:HB3	0.46	1.87	6	1
1:C:155:LYS:HE2	1:F:128:THR:HG21	0.46	1.87	6	1
1:D:2:ALA:HB2	1:E:159:GLN:HG3	0.46	1.87	6	1
1:A:82:HIS:NE2	1:A:139:ALA:O	0.46	2.48	7	1
1:B:55:ASN:OD1	1:B:130:THR:HG21	0.46	2.10	8	1
1:D:5:VAL:CG2	1:E:17:VAL:HG12	0.46	2.40	8	1
1:E:15:GLU:HG2	1:F:147:ALA:HA	0.46	1.87	9	1
1:E:20:ALA:O	1:E:61:CYS:HA	0.46	2.09	1	2
1:F:69:ALA:HB3	1:F:122:THR:HB	0.46	1.85	1	2
1:D:97:THR:O	1:D:98:ASN:HB2	0.46	2.10	10	2
1:B:2:ALA:H	1:C:159:GLN:HA	0.46	1.70	6	3
1:B:44:GLN:CG	1:B:47:ALA:HB2	0.46	2.40	5	1
1:D:37:VAL:CG1	1:D:42:LEU:HD21	0.46	2.41	5	1
1:A:12:PHE:HA	1:B:32:VAL:O	0.46	2.09	6	1
1:C:92:ALA:HB3	1:F:34:LEU:HD21	0.46	1.87	6	1
1:B:56:ILE:CB	1:B:131:ILE:HD12	0.46	2.40	7	1
1:E:82:HIS:NE2	1:E:139:ALA:O	0.46	2.48	7	1
1:D:55:ASN:OD1	1:D:130:THR:HG21	0.46	2.10	8	1
1:B:47:ALA:HB3	1:B:139:ALA:HB3	0.46	1.86	10	1
1:E:114:ASP:HB2	1:E:117:THR:OG1	0.46	2.11	10	1
1:C:20:ALA:O	1:C:61:CYS:HA	0.46	2.09	1	1
1:D:63:THR:HG23	1:D:125:ASN:HA	0.46	1.87	1	2
1:A:92:ALA:HA	1:D:50:SER:O	0.46	2.11	4	1
1:B:32:VAL:HG11	1:B:52:VAL:HG11	0.46	1.87	5	1
1:E:37:VAL:CG1	1:E:42:LEU:HD21	0.46	2.41	5	1
1:E:79:ASP:HB2	1:E:140:THR:HG21	0.46	1.86	5	1
1:F:32:VAL:HG11	1:F:52:VAL:HG11	0.46	1.87	5	1
1:D:5:VAL:HG12	1:F:146:GLY:HA2	0.46	1.87	6	1
1:E:56:ILE:CB	1:E:131:ILE:HD12	0.46	2.40	7	1
1:C:5:VAL:CG2	1:D:17:VAL:HG12	0.46	2.40	8	1
1:D:85:VAL:HG22	1:D:102:GLN:HB2	0.46	1.87	8	1
1:A:63:THR:HG23	1:A:125:ASN:HA	0.46	1.87	1	2
1:C:116:ALA:HB3	1:F:129:ASN:OD1	0.46	2.10	1	1
1:D:69:ALA:HB3	1:D:122:THR:HB	0.46	1.85	1	2
1:F:118:PHE:CZ	1:F:155:LYS:HB3	0.46	2.45	1	1
1:A:37:VAL:CG1	1:A:42:LEU:HD21	0.46	2.41	5	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:5:VAL:HG12	1:E:146:GLY:HA2	0.46	1.87	6	1
1:E:68:LYS:HB3	1:E:159:GLN:HB3	0.46	1.87	6	1
1:A:16:VAL:HB	1:B:144:THR:O	0.46	2.10	7	1
1:A:116:ALA:HB3	1:D:129:ASN:OD1	0.46	2.10	1	1
1:C:118:PHE:CZ	1:C:155:LYS:HB3	0.46	2.45	1	1
1:C:74:LEU:O	1:C:152:ALA:HA	0.46	2.09	2	2
1:C:92:ALA:HA	1:F:50:SER:O	0.46	2.11	4	1
1:A:115:GLY:HA3	1:D:130:THR:OG1	0.46	2.10	5	3
1:C:58:LEU:HD11	1:C:131:ILE:HG13	0.46	1.87	6	1
1:D:68:LYS:HB3	1:D:159:GLN:HB3	0.46	1.87	6	1
1:F:68:LYS:HB3	1:F:159:GLN:HB3	0.46	1.87	6	1
1:B:16:VAL:HB	1:C:144:THR:O	0.46	2.10	7	1
1:A:5:VAL:CG2	1:B:17:VAL:HG12	0.46	2.40	8	1
1:B:111:LEU:HD11	1:B:117:THR:HG22	0.46	1.88	8	1
1:D:71:VAL:HG21	1:D:131:ILE:CG2	0.46	2.40	8	1
1:E:111:LEU:HD11	1:E:117:THR:HG22	0.46	1.88	8	1
1:A:21:CYS:HB3	1:A:58:LEU:HD23	0.46	1.88	3	1
1:C:21:CYS:HB3	1:C:58:LEU:HD23	0.46	1.88	3	1
1:A:21:CYS:SG	1:A:58:LEU:HB2	0.46	2.51	6	1
1:A:103:ILE:HD12	1:A:113:LEU:HD11	0.46	1.88	6	1
1:D:21:CYS:SG	1:D:58:LEU:HB2	0.46	2.51	6	1
1:B:34:LEU:HD21	1:B:101:VAL:CG2	0.46	2.41	10	1
1:B:21:CYS:HB3	1:B:58:LEU:HD23	0.46	1.88	3	1
1:E:21:CYS:HB3	1:E:58:LEU:HD23	0.46	1.88	3	1
1:F:21:CYS:HB3	1:F:58:LEU:HD23	0.46	1.88	3	1
1:A:22:ALA:HB1	1:B:36:GLN:O	0.46	2.11	4	1
1:D:72:ALA:HA	1:D:111:LEU:HD21	0.46	1.86	4	1
1:C:44:GLN:CG	1:C:47:ALA:HB2	0.46	2.40	5	1
1:F:44:GLN:CG	1:F:47:ALA:HB2	0.46	2.41	5	1
1:E:2:ALA:HB2	1:F:159:GLN:HG3	0.46	1.87	6	1
1:F:58:LEU:HD11	1:F:131:ILE:HG13	0.46	1.87	6	1
1:D:82:HIS:NE2	1:D:139:ALA:O	0.46	2.48	7	1
1:E:16:VAL:HB	1:F:144:THR:O	0.46	2.10	7	1
1:B:15:GLU:HG2	1:C:147:ALA:HA	0.46	1.86	9	1
1:A:34:LEU:HD21	1:A:101:VAL:CG2	0.46	2.41	10	1
1:A:114:ASP:HB2	1:A:117:THR:OG1	0.46	2.11	10	1
1:B:16:VAL:CG2	1:C:148:ALA:HB2	0.46	2.41	10	2
1:C:63:THR:HG23	1:C:125:ASN:HA	0.46	1.87	1	2
1:C:23:VAL:CA	1:C:58:LEU:HG	0.46	2.40	3	2
1:B:92:ALA:HA	1:E:50:SER:O	0.46	2.11	4	1
1:F:97:THR:N	1:F:144:THR:HB	0.46	2.26	4	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:21:CYS:SG	1:C:58:LEU:HB2	0.46	2.51	6	1
1:E:103:ILE:HD12	1:E:113:LEU:HD11	0.46	1.88	6	1
1:F:21:CYS:SG	1:F:58:LEU:HB2	0.46	2.51	6	1
1:A:111:LEU:HD11	1:A:117:THR:HG22	0.46	1.88	8	1
1:D:111:LEU:HD11	1:D:117:THR:HG22	0.46	1.88	8	1
1:F:97:THR:O	1:F:99:VAL:HG23	0.46	2.10	8	1
1:C:114:ASP:HB2	1:C:117:THR:OG1	0.46	2.11	10	1
1:D:34:LEU:HD21	1:D:101:VAL:CG2	0.46	2.41	10	1
1:F:34:LEU:HD21	1:F:101:VAL:CG2	0.46	2.41	10	1
1:C:16:VAL:CG2	1:D:148:ALA:HB2	0.46	2.41	10	2
1:C:23:VAL:HA	1:C:58:LEU:HA	0.46	1.86	3	1
1:A:2:ALA:HB2	1:B:159:GLN:HG3	0.46	1.87	6	1
1:A:5:VAL:HG12	1:C:146:GLY:HA2	0.46	1.87	6	1
1:A:58:LEU:HD11	1:A:131:ILE:HG13	0.46	1.87	6	1
1:D:97:THR:O	1:D:99:VAL:HG23	0.46	2.10	8	1
1:A:39:THR:O	1:A:43:ALA:HB2	0.46	2.11	10	1
1:B:39:THR:O	1:B:43:ALA:HB2	0.46	2.11	10	1
1:D:39:THR:O	1:D:43:ALA:HB2	0.46	2.11	10	1
1:E:34:LEU:HD21	1:E:101:VAL:CG2	0.46	2.41	10	1
1:E:39:THR:O	1:E:43:ALA:HB2	0.46	2.11	10	1
1:F:39:THR:O	1:F:43:ALA:HB2	0.46	2.11	10	1
1:B:63:THR:HG23	1:B:125:ASN:HA	0.45	1.87	1	2
1:D:21:CYS:HB3	1:D:58:LEU:HD23	0.45	1.88	3	1
1:F:23:VAL:CA	1:F:58:LEU:HG	0.45	2.40	3	2
1:A:92:ALA:HB3	1:D:34:LEU:HD21	0.45	1.87	6	1
1:E:58:LEU:HD11	1:E:131:ILE:HG13	0.45	1.87	6	1
1:C:15:GLU:HG2	1:D:147:ALA:HA	0.45	1.87	9	1
1:B:114:ASP:HB2	1:B:117:THR:OG1	0.45	2.11	10	1
1:D:16:VAL:CG2	1:E:148:ALA:HB2	0.45	2.41	10	2
1:E:9:THR:CG2	1:F:153:THR:HG23	0.45	2.31	3	1
1:C:76:THR:H	1:C:86:LEU:HD12	0.45	1.71	5	1
1:E:32:VAL:HG11	1:E:52:VAL:HG11	0.45	1.87	5	1
1:D:58:LEU:HD11	1:D:131:ILE:HG13	0.45	1.87	6	1
1:D:66:ALA:HB1	1:D:159:GLN:O	0.45	2.11	6	1
1:E:86:LEU:HG	1:E:113:LEU:CD2	0.45	2.41	6	1
1:C:16:VAL:HB	1:D:144:THR:O	0.45	2.10	7	1
1:A:85:VAL:HG22	1:A:102:GLN:HB2	0.45	1.87	8	1
1:B:56:ILE:HG22	1:B:131:ILE:HB	0.45	1.89	8	1
1:B:97:THR:O	1:B:99:VAL:HG23	0.45	2.10	8	1
1:C:13:LYS:HD3	1:D:31:THR:HG22	0.45	1.89	9	1
1:E:6:ASN:CA	1:F:155:LYS:HE2	0.45	2.41	9	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:16:VAL:CG2	1:B:148:ALA:HB2	0.45	2.41	10	2
1:E:16:VAL:CG2	1:F:148:ALA:HB2	0.45	2.41	10	2
1:B:72:ALA:HA	1:B:111:LEU:HD21	0.45	1.86	4	1
1:E:22:ALA:HB1	1:F:36:GLN:O	0.45	2.11	4	1
1:B:115:GLY:HA3	1:E:130:THR:OG1	0.45	2.10	5	3
1:B:5:VAL:HG12	1:D:146:GLY:HA2	0.45	1.87	6	1
1:B:155:LYS:HE2	1:E:128:THR:HG21	0.45	1.87	6	1
1:B:82:HIS:NE2	1:B:139:ALA:O	0.45	2.48	7	1
1:C:97:THR:O	1:C:99:VAL:HG23	0.45	2.10	8	1
1:C:111:LEU:HD11	1:C:117:THR:HG22	0.45	1.88	8	1
1:F:56:ILE:HG22	1:F:131:ILE:HB	0.45	1.89	8	1
1:F:111:LEU:HD11	1:F:117:THR:HG22	0.45	1.88	8	1
1:A:13:LYS:HD3	1:B:31:THR:HG22	0.45	1.89	9	1
1:D:6:ASN:CA	1:E:155:LYS:HE2	0.45	2.41	9	1
1:D:13:LYS:HD3	1:E:31:THR:HG22	0.45	1.89	9	1
1:A:91:SER:CB	1:A:95:SER:HB2	0.45	2.42	10	1
1:F:114:ASP:HB2	1:F:117:THR:OG1	0.45	2.11	10	1
1:F:68:LYS:HE3	1:F:121:GLU:HB3	0.45	1.89	3	1
1:F:75:GLY:HA3	1:F:113:LEU:HD11	0.45	1.88	5	1
1:A:86:LEU:HG	1:A:113:LEU:CD2	0.45	2.42	6	1
1:B:58:LEU:HD11	1:B:131:ILE:HG13	0.45	1.87	6	1
1:D:86:LEU:HG	1:D:113:LEU:CD2	0.45	2.42	6	1
1:E:56:ILE:HG22	1:E:131:ILE:HB	0.45	1.89	8	1
1:F:17:VAL:HG11	1:F:158:TYR:CE2	0.45	2.47	9	1
1:C:34:LEU:HD21	1:C:101:VAL:CG2	0.45	2.41	10	1
1:D:91:SER:CB	1:D:95:SER:HB2	0.45	2.42	10	1
1:F:63:THR:HG23	1:F:125:ASN:HA	0.45	1.89	3	2
1:E:144:THR:HG22	1:E:145:PRO:HD2	0.45	1.88	2	1
1:C:97:THR:N	1:C:144:THR:HB	0.45	2.26	4	1
1:D:2:ALA:H	1:E:159:GLN:HA	0.45	1.70	6	3
1:D:32:VAL:HG11	1:D:52:VAL:HG11	0.45	1.87	5	1
1:B:86:LEU:HG	1:B:113:LEU:CD2	0.45	2.42	6	1
1:C:66:ALA:HB1	1:C:159:GLN:O	0.45	2.11	6	1
1:F:66:ALA:HB1	1:F:159:GLN:O	0.45	2.11	6	1
1:C:52:VAL:HG23	1:C:54:PHE:CD1	0.45	2.47	7	1
1:B:85:VAL:HG22	1:B:102:GLN:HB2	0.45	1.87	8	1
1:C:56:ILE:HG22	1:C:131:ILE:HB	0.45	1.89	8	1
1:A:116:ALA:O	1:D:125:ASN:HB3	0.45	2.12	10	1
1:D:144:THR:HG22	1:D:145:PRO:HD2	0.45	1.88	2	1
1:D:68:LYS:HE3	1:D:121:GLU:HB3	0.45	1.89	3	1
1:F:23:VAL:HA	1:F:58:LEU:HA	0.45	1.86	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:32:VAL:HG11	1:A:52:VAL:HG11	0.45	1.87	5	1
1:A:75:GLY:HA3	1:A:113:LEU:HD11	0.45	1.88	5	1
1:C:2:ALA:H	1:D:159:GLN:HA	0.45	1.70	6	3
1:E:2:ALA:H	1:F:159:GLN:HA	0.45	1.72	5	3
1:A:66:ALA:HB1	1:A:159:GLN:O	0.45	2.11	6	1
1:A:68:LYS:HB3	1:A:159:GLN:HB3	0.45	1.87	6	1
1:A:90:SER:O	1:D:52:VAL:HG12	0.45	2.12	7	1
1:D:52:VAL:HG23	1:D:54:PHE:CD1	0.45	2.47	7	1
1:C:6:ASN:CA	1:D:155:LYS:HE2	0.45	2.41	9	1
1:A:118:PHE:CZ	1:A:155:LYS:HB3	0.45	2.45	1	1
1:D:118:PHE:CZ	1:D:155:LYS:HB3	0.45	2.45	1	1
1:D:22:ALA:HB1	1:E:36:GLN:O	0.45	2.11	4	1
1:E:72:ALA:HA	1:E:111:LEU:HD21	0.45	1.87	4	1
1:D:79:ASP:HB2	1:D:140:THR:HG21	0.45	1.86	5	1
1:B:98:ASN:HA	1:B:140:THR:HB	0.45	1.89	6	1
1:C:98:ASN:HA	1:C:140:THR:HB	0.45	1.88	6	1
1:E:85:VAL:HG22	1:E:102:GLN:HB2	0.45	1.87	8	1
1:E:13:LYS:HD3	1:F:31:THR:HG22	0.45	1.89	9	1
1:C:47:ALA:HB3	1:C:139:ALA:HB3	0.45	1.86	10	1
1:C:22:ALA:HB1	1:D:36:GLN:O	0.45	2.11	4	1
1:D:97:THR:N	1:D:144:THR:HB	0.45	2.26	4	1
1:C:68:LYS:HB3	1:C:159:GLN:HB3	0.45	1.87	6	1
1:F:98:ASN:HA	1:F:140:THR:HB	0.45	1.89	6	1
1:F:103:ILE:HD12	1:F:113:LEU:HD11	0.45	1.88	6	1
1:A:52:VAL:HG23	1:A:54:PHE:CD1	0.45	2.47	7	1
1:D:8:GLY:N	1:E:154:PHE:CE1	0.45	2.85	7	1
1:B:6:ASN:CA	1:C:155:LYS:HE2	0.45	2.41	9	1
1:C:47:ALA:O	1:C:138:PHE:HA	0.45	2.12	9	1
1:C:39:THR:O	1:C:43:ALA:HB2	0.45	2.11	10	1
1:C:68:LYS:HE3	1:C:121:GLU:HB3	0.45	1.89	3	1
1:B:22:ALA:HB1	1:C:36:GLN:O	0.45	2.11	4	1
1:B:9:THR:HG23	1:C:152:ALA:O	0.45	2.12	5	1
1:A:92:ALA:HA	1:D:50:SER:HB2	0.45	1.89	6	1
1:B:92:ALA:HB3	1:E:34:LEU:HD21	0.45	1.87	6	1
1:C:86:LEU:HG	1:C:113:LEU:CD2	0.45	2.41	6	1
1:A:8:GLY:N	1:B:154:PHE:CE1	0.45	2.85	7	1
1:D:23:VAL:HG13	1:D:27:SER:HB3	0.45	1.89	7	1
1:A:105:ASP:OD2	1:A:111:LEU:HD22	0.45	2.12	8	1
1:C:105:ASP:OD2	1:C:111:LEU:HD22	0.45	2.12	8	1
1:A:6:ASN:CA	1:B:155:LYS:HE2	0.45	2.41	9	1
1:B:13:LYS:HD3	1:C:31:THR:HG22	0.45	1.89	9	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:47:ALA:HB3	1:F:139:ALA:HB3	0.45	1.86	10	1
1:E:85:VAL:HG11	1:E:138:PHE:HB3	0.45	1.89	1	1
1:B:103:ILE:HG12	1:B:113:LEU:HG	0.45	1.89	8	2
1:A:2:ALA:H	1:B:159:GLN:HA	0.45	1.70	6	3
1:A:76:THR:H	1:A:86:LEU:HD12	0.45	1.71	5	1
1:E:9:THR:HG23	1:F:152:ALA:O	0.45	2.12	5	1
1:B:66:ALA:HB1	1:B:159:GLN:O	0.45	2.11	6	1
1:D:103:ILE:HD12	1:D:113:LEU:HD11	0.45	1.88	6	1
1:E:86:LEU:HG	1:E:113:LEU:HD21	0.45	1.89	6	1
1:B:52:VAL:HG23	1:B:54:PHE:CD1	0.45	2.47	7	1
1:B:90:SER:O	1:E:52:VAL:HG12	0.45	2.12	7	1
1:F:52:VAL:HG23	1:F:54:PHE:CD1	0.45	2.47	7	1
1:E:17:VAL:HG11	1:E:158:TYR:CE2	0.45	2.46	9	1
1:B:44:GLN:HB2	1:B:47:ALA:HB2	0.44	1.89	1	1
1:D:44:GLN:HB2	1:D:47:ALA:HB2	0.44	1.89	1	1
1:D:85:VAL:HG11	1:D:138:PHE:HB3	0.44	1.89	1	1
1:F:103:ILE:HG12	1:F:113:LEU:HG	0.44	1.89	8	2
1:F:144:THR:HG22	1:F:145:PRO:HD2	0.44	1.88	2	1
1:C:75:GLY:HA3	1:C:113:LEU:HD11	0.44	1.88	5	1
1:D:9:THR:HG23	1:E:152:ALA:O	0.44	2.12	5	1
1:B:86:LEU:HG	1:B:113:LEU:HD21	0.44	1.89	6	1
1:F:86:LEU:HG	1:F:113:LEU:CD2	0.44	2.42	6	1
1:B:8:GLY:N	1:C:154:PHE:CE1	0.44	2.85	7	1
1:D:42:LEU:HB3	1:D:139:ALA:HB2	0.44	1.89	9	2
1:E:8:GLY:N	1:F:154:PHE:CE1	0.44	2.85	7	1
1:E:22:ALA:HB3	1:E:59:ASN:O	0.44	2.13	7	1
1:F:23:VAL:HG13	1:F:27:SER:HB3	0.44	1.89	7	1
1:A:56:ILE:HG22	1:A:131:ILE:HB	0.44	1.89	8	1
1:B:69:ALA:CB	1:B:124:LEU:HD13	0.44	2.36	8	1
1:D:56:ILE:HG22	1:D:131:ILE:HB	0.44	1.89	8	1
1:B:91:SER:CB	1:B:95:SER:HB2	0.44	2.42	10	1
1:C:91:SER:CB	1:C:95:SER:HB2	0.44	2.42	10	1
1:E:73:PHE:CB	1:E:103:ILE:HD13	0.44	2.42	2	1
1:C:92:ALA:O	1:F:49:SER:HB3	0.44	2.13	4	1
1:C:4:THR:HG22	1:D:157:GLN:HB2	0.44	1.90	5	1
1:B:103:ILE:HD12	1:B:113:LEU:HD11	0.44	1.88	6	1
1:E:66:ALA:HB1	1:E:159:GLN:O	0.44	2.11	6	1
1:A:22:ALA:HB3	1:A:59:ASN:O	0.44	2.13	7	1
1:B:22:ALA:HB3	1:B:59:ASN:O	0.44	2.13	7	1
1:C:8:GLY:N	1:D:154:PHE:CE1	0.44	2.85	7	1
1:E:52:VAL:HG23	1:E:54:PHE:CD1	0.44	2.47	7	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:56:ILE:CB	1:F:131:ILE:HD12	0.44	2.40	7	1
1:F:105:ASP:OD2	1:F:111:LEU:HD22	0.44	2.12	8	1
1:A:17:VAL:HG11	1:A:158:TYR:CE2	0.44	2.47	9	1
1:B:11:HIS:O	1:C:32:VAL:HB	0.44	2.13	9	1
1:B:17:VAL:HG11	1:B:158:TYR:CE2	0.44	2.47	9	1
1:D:114:ASP:HB2	1:D:117:THR:OG1	0.44	2.11	10	1
1:E:91:SER:CB	1:E:95:SER:HB2	0.44	2.42	10	1
1:A:44:GLN:HB2	1:A:47:ALA:HB2	0.44	1.89	1	1
1:B:85:VAL:HG11	1:B:138:PHE:HB3	0.44	1.89	1	1
1:E:44:GLN:HB2	1:E:47:ALA:HB2	0.44	1.89	1	1
1:F:44:GLN:HB2	1:F:47:ALA:HB2	0.44	1.89	1	1
1:B:92:ALA:O	1:E:49:SER:HB3	0.44	2.12	4	1
1:E:76:THR:H	1:E:86:LEU:HD12	0.44	1.71	5	1
1:E:98:ASN:HA	1:E:140:THR:HB	0.44	1.89	6	1
1:C:42:LEU:HB3	1:C:139:ALA:HB2	0.44	1.89	9	2
1:D:22:ALA:HB3	1:D:59:ASN:O	0.44	2.13	7	1
1:D:56:ILE:CB	1:D:131:ILE:HD12	0.44	2.40	7	1
1:D:105:ASP:OD2	1:D:111:LEU:HD22	0.44	2.12	8	1
1:F:47:ALA:O	1:F:138:PHE:HA	0.44	2.12	9	1
1:A:79:ASP:HB2	1:A:140:THR:HG21	0.44	1.86	5	2
1:C:44:GLN:HB2	1:C:47:ALA:HB2	0.44	1.89	1	1
1:E:68:LYS:HE3	1:E:121:GLU:HB3	0.44	1.89	3	1
1:D:76:THR:H	1:D:86:LEU:HD12	0.44	1.71	5	1
1:B:21:CYS:SG	1:B:58:LEU:HB2	0.44	2.51	6	1
1:E:23:VAL:HG13	1:E:27:SER:HB3	0.44	1.89	7	1
1:E:105:ASP:OD2	1:E:111:LEU:HD22	0.44	2.12	8	1
1:C:11:HIS:O	1:D:32:VAL:HB	0.44	2.13	9	1
1:C:17:VAL:HG11	1:C:158:TYR:CE2	0.44	2.47	9	1
1:D:11:HIS:O	1:E:32:VAL:HB	0.44	2.13	9	1
1:D:17:VAL:HG11	1:D:158:TYR:CE2	0.44	2.47	9	1
1:C:73:PHE:CB	1:C:103:ILE:HD13	0.44	2.42	2	1
1:C:102:GLN:HG2	1:C:103:ILE:N	0.44	2.28	4	1
1:A:9:THR:HG23	1:B:152:ALA:O	0.44	2.12	5	1
1:B:76:THR:H	1:B:86:LEU:HD12	0.44	1.71	5	1
1:D:4:THR:HG22	1:E:157:GLN:HB2	0.44	1.90	5	1
1:D:75:GLY:HA3	1:D:113:LEU:HD11	0.44	1.88	5	1
1:E:9:THR:HA	1:F:153:THR:HG22	0.44	1.90	6	1
1:F:86:LEU:HG	1:F:113:LEU:HD21	0.44	1.89	6	1
1:A:69:ALA:CB	1:A:124:LEU:HD13	0.44	2.36	8	1
1:D:47:ALA:O	1:D:138:PHE:HA	0.44	2.12	9	1
1:F:73:PHE:CB	1:F:103:ILE:HD13	0.44	2.42	2	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:68:LYS:HE3	1:A:121:GLU:HB3	0.44	1.89	3	1
1:A:92:ALA:O	1:D:49:SER:HB3	0.44	2.13	4	1
1:A:102:GLN:HG2	1:A:103:ILE:N	0.44	2.28	4	1
1:B:102:GLN:HG2	1:B:103:ILE:N	0.44	2.28	4	1
1:D:102:GLN:HG2	1:D:103:ILE:N	0.44	2.28	4	1
1:E:102:GLN:HG2	1:E:103:ILE:N	0.44	2.28	4	1
1:A:98:ASN:HA	1:A:140:THR:HB	0.44	1.89	6	1
1:D:98:ASN:HA	1:D:140:THR:HB	0.44	1.89	6	1
1:E:21:CYS:SG	1:E:58:LEU:HB2	0.44	2.51	6	1
1:F:118:PHE:CD1	1:F:157:GLN:HB2	0.44	2.48	8	1
1:B:116:ALA:O	1:E:125:ASN:HB3	0.44	2.12	10	1
1:F:91:SER:CB	1:F:95:SER:HB2	0.44	2.42	10	1
1:E:63:THR:HG23	1:E:125:ASN:HA	0.44	1.87	1	2
1:C:103:ILE:HD12	1:C:113:LEU:HD11	0.44	1.88	6	1
1:D:9:THR:HA	1:E:153:THR:HG22	0.44	1.90	6	1
1:A:42:LEU:HB3	1:A:139:ALA:HB2	0.44	1.89	9	2
1:A:56:ILE:CB	1:A:131:ILE:HD12	0.44	2.40	7	1
1:C:77:ALA:H	1:F:132:PRO:HB3	0.44	1.73	7	1
1:C:90:SER:O	1:F:52:VAL:HG12	0.44	2.12	7	1
1:B:105:ASP:OD2	1:B:111:LEU:HD22	0.44	2.12	8	1
1:C:118:PHE:CD1	1:C:157:GLN:HB2	0.44	2.48	8	1
1:E:47:ALA:O	1:E:138:PHE:HA	0.44	2.12	9	1
1:A:16:VAL:O	1:B:145:PRO:HA	0.44	2.13	10	1
1:C:16:VAL:O	1:D:145:PRO:HA	0.44	2.13	10	1
1:B:89:GLN:CG	1:B:149:ASN:HB2	0.44	2.42	2	1
1:C:89:GLN:CG	1:C:149:ASN:HB2	0.44	2.43	2	1
1:E:89:GLN:CG	1:E:149:ASN:HB2	0.44	2.43	2	1
1:F:89:GLN:CG	1:F:149:ASN:HB2	0.44	2.43	2	1
1:B:68:LYS:HE3	1:B:121:GLU:HB3	0.44	1.89	3	1
1:D:51:ALA:CA	1:D:136:ARG:HB3	0.44	2.43	3	1
1:C:86:LEU:HG	1:C:113:LEU:HD21	0.44	1.89	6	1
1:E:42:LEU:HB3	1:E:139:ALA:HB2	0.44	1.89	9	2
1:A:118:PHE:CD1	1:A:157:GLN:HB2	0.44	2.48	8	1
1:D:118:PHE:CD1	1:D:157:GLN:HB2	0.44	2.48	8	1
1:B:47:ALA:O	1:B:138:PHE:HA	0.44	2.12	9	1
1:E:11:HIS:O	1:F:32:VAL:HB	0.44	2.13	9	1
1:F:73:PHE:CB	1:F:111:LEU:HD11	0.44	2.43	9	1
1:D:89:GLN:CG	1:D:149:ASN:HB2	0.44	2.43	2	1
1:D:51:ALA:HA	1:D:136:ARG:HB3	0.44	1.90	3	1
1:B:75:GLY:HA3	1:B:113:LEU:HD11	0.44	1.88	5	1
1:C:23:VAL:HG13	1:C:27:SER:HB3	0.44	1.89	7	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:HIS:O	1:B:32:VAL:HB	0.44	2.13	9	1
1:C:98:ASN:HA	1:C:140:THR:OG1	0.44	2.13	9	1
1:E:73:PHE:CB	1:E:111:LEU:HD11	0.44	2.43	9	1
1:C:116:ALA:O	1:F:125:ASN:HB3	0.44	2.12	10	1
1:A:103:ILE:HG12	1:A:113:LEU:HG	0.43	1.89	8	2
1:D:73:PHE:CB	1:D:103:ILE:HD13	0.43	2.42	2	1
1:F:39:THR:OG1	1:F:143:ALA:O	0.43	2.33	3	1
1:A:97:THR:N	1:A:144:THR:HB	0.43	2.26	4	1
1:A:4:THR:HG22	1:B:157:GLN:HB2	0.43	1.90	5	1
1:F:76:THR:H	1:F:86:LEU:HD12	0.43	1.71	5	1
1:A:93:ALA:HB3	1:D:36:GLN:O	0.43	2.13	6	2
1:B:93:ALA:HB3	1:E:36:GLN:O	0.43	2.13	10	2
1:A:98:ASN:HA	1:A:140:THR:OG1	0.43	2.13	9	1
1:C:73:PHE:CB	1:C:111:LEU:HD11	0.43	2.43	9	1
1:F:105:ASP:HB2	1:F:111:LEU:HB2	0.43	1.91	1	2
1:A:51:ALA:CA	1:A:136:ARG:HB3	0.43	2.43	3	1
1:B:51:ALA:CA	1:B:136:ARG:HB3	0.43	2.43	3	1
1:E:51:ALA:HA	1:E:136:ARG:HB3	0.43	1.90	3	1
1:F:51:ALA:CA	1:F:136:ARG:HB3	0.43	2.43	3	1
1:C:9:THR:HG23	1:D:152:ALA:O	0.43	2.12	5	1
1:E:75:GLY:HA3	1:E:113:LEU:HD11	0.43	1.88	5	1
1:B:42:LEU:HB3	1:B:139:ALA:HB2	0.43	1.89	9	2
1:C:61:CYS:HB3	1:C:125:ASN:O	0.43	2.13	8	1
1:E:55:ASN:OD1	1:E:130:THR:CG2	0.43	2.66	8	1
1:D:98:ASN:HA	1:D:140:THR:OG1	0.43	2.13	9	1
1:F:98:ASN:HA	1:F:140:THR:OG1	0.43	2.13	9	1
1:B:16:VAL:O	1:C:145:PRO:HA	0.43	2.13	10	1
1:C:85:VAL:HG11	1:C:138:PHE:HB3	0.43	1.89	1	1
1:C:105:ASP:HB2	1:C:111:LEU:HB2	0.43	1.91	1	2
1:D:105:ASP:HB2	1:D:111:LEU:HB2	0.43	1.91	1	2
1:F:85:VAL:HG11	1:F:138:PHE:HB3	0.43	1.89	1	1
1:A:73:PHE:CB	1:A:103:ILE:HD13	0.43	2.42	2	2
1:B:73:PHE:CB	1:B:103:ILE:HD13	0.43	2.42	2	1
1:F:102:GLN:HG2	1:F:103:ILE:N	0.43	2.28	4	1
1:B:9:THR:HA	1:C:153:THR:HG22	0.43	1.90	6	1
1:B:92:ALA:HA	1:E:50:SER:HB2	0.43	1.89	6	1
1:C:93:ALA:HB3	1:F:36:GLN:O	0.43	2.13	6	2
1:B:74:LEU:HD11	1:E:57:GLN:HG3	0.43	1.89	10	1
1:D:16:VAL:O	1:E:145:PRO:HA	0.43	2.13	10	1
1:E:16:VAL:O	1:F:145:PRO:HA	0.43	2.13	10	1
1:B:77:ALA:HB2	1:B:83:THR:HG23	0.43	1.90	2	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:5:VAL:CG1	1:E:146:GLY:HA2	0.43	2.44	6	1
1:A:23:VAL:HG13	1:A:27:SER:HB3	0.43	1.89	7	1
1:B:77:ALA:H	1:E:132:PRO:HB3	0.43	1.73	7	1
1:C:22:ALA:HB3	1:C:59:ASN:O	0.43	2.13	7	1
1:C:82:HIS:NE2	1:C:139:ALA:O	0.43	2.48	7	1
1:B:73:PHE:CB	1:B:111:LEU:HD11	0.43	2.43	9	1
1:A:73:PHE:CD1	1:A:152:ALA:HB1	0.43	2.49	2	1
1:C:73:PHE:CD1	1:C:152:ALA:HB1	0.43	2.49	2	1
1:E:77:ALA:HB2	1:E:83:THR:HG23	0.43	1.90	2	1
1:E:103:ILE:HG12	1:E:113:LEU:HG	0.43	1.89	8	2
1:A:51:ALA:HA	1:A:136:ARG:HB3	0.43	1.90	3	1
1:E:51:ALA:CA	1:E:136:ARG:HB3	0.43	2.43	3	1
1:C:63:THR:HA	1:C:66:ALA:O	0.43	2.14	7	1
1:A:61:CYS:HB3	1:A:125:ASN:O	0.43	2.13	8	1
1:E:61:CYS:HB3	1:E:125:ASN:O	0.43	2.13	8	1
1:A:47:ALA:O	1:A:138:PHE:HA	0.43	2.12	9	1
1:D:6:ASN:CB	1:E:155:LYS:HE2	0.43	2.44	9	1
1:A:89:GLN:CG	1:A:149:ASN:HB2	0.43	2.43	2	1
1:C:103:ILE:HG12	1:C:113:LEU:HG	0.43	1.89	8	2
1:E:73:PHE:CD1	1:E:152:ALA:HB1	0.43	2.49	2	1
1:A:106:ARG:CZ	1:A:132:PRO:HG2	0.43	2.44	6	1
1:C:92:ALA:HA	1:F:50:SER:HB2	0.43	1.89	6	1
1:D:5:VAL:CG1	1:F:146:GLY:HA2	0.43	2.44	6	1
1:D:106:ARG:CZ	1:D:132:PRO:HG2	0.43	2.44	6	1
1:A:77:ALA:H	1:D:132:PRO:HB3	0.43	1.73	7	1
1:B:23:VAL:HG13	1:B:27:SER:HB3	0.43	1.89	7	1
1:F:42:LEU:HB3	1:F:139:ALA:HB2	0.43	1.89	9	2
1:A:55:ASN:OD1	1:A:130:THR:CG2	0.43	2.66	8	1
1:B:55:ASN:OD1	1:B:130:THR:CG2	0.43	2.66	8	1
1:F:55:ASN:OD1	1:F:130:THR:CG2	0.43	2.66	8	1
1:A:6:ASN:CB	1:B:155:LYS:HE2	0.43	2.44	9	1
1:B:98:ASN:HA	1:B:140:THR:OG1	0.43	2.13	9	1
1:B:84:ASN:HB3	1:B:102:GLN:HG2	0.43	1.91	5	1
1:E:99:VAL:HB	1:E:143:ALA:HB1	0.43	1.90	5	1
1:A:86:LEU:HG	1:A:113:LEU:HD21	0.43	1.89	6	1
1:F:63:THR:HA	1:F:66:ALA:O	0.43	2.14	7	1
1:B:61:CYS:HB3	1:B:125:ASN:O	0.43	2.14	8	1
1:C:55:ASN:OD1	1:C:130:THR:CG2	0.43	2.66	8	1
1:D:107:THR:HB	1:D:120:SER:HA	0.43	1.91	10	1
1:A:85:VAL:HG11	1:A:138:PHE:HB3	0.43	1.89	1	1
1:D:73:PHE:CD1	1:D:152:ALA:HB1	0.43	2.49	2	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:73:PHE:CD1	1:F:152:ALA:HB1	0.43	2.49	2	1
1:C:51:ALA:CA	1:C:136:ARG:HB3	0.43	2.43	3	1
1:C:9:THR:HA	1:D:153:THR:HG22	0.43	1.90	6	1
1:D:86:LEU:HG	1:D:113:LEU:HD21	0.43	1.89	6	1
1:A:74:LEU:HD11	1:D:57:GLN:HG3	0.43	1.89	10	1
1:E:107:THR:HB	1:E:120:SER:HA	0.43	1.91	10	1
1:A:105:ASP:HB2	1:A:111:LEU:HB2	0.43	1.91	1	2
1:B:73:PHE:CD1	1:B:152:ALA:HB1	0.43	2.49	2	1
1:C:17:VAL:HG11	1:D:36:GLN:HE21	0.43	1.74	2	1
1:B:99:VAL:HB	1:B:143:ALA:HB1	0.43	1.90	5	1
1:B:63:THR:HA	1:B:66:ALA:O	0.43	2.14	7	1
1:F:22:ALA:HB3	1:F:59:ASN:O	0.43	2.13	7	1
1:D:15:GLU:HG3	1:E:147:ALA:HA	0.43	1.91	8	2
1:A:107:THR:HB	1:A:120:SER:HA	0.43	1.91	10	1
1:C:74:LEU:HD11	1:F:57:GLN:HG3	0.43	1.89	10	1
1:B:92:ALA:HB3	1:E:34:LEU:HB3	0.43	1.91	3	1
1:A:9:THR:HA	1:B:153:THR:HG22	0.43	1.90	6	1
1:E:106:ARG:CZ	1:E:132:PRO:HG2	0.43	2.44	6	1
1:B:118:PHE:CD1	1:B:157:GLN:HB2	0.43	2.48	8	1
1:C:59:ASN:CA	1:C:128:THR:HG23	0.43	2.44	8	1
1:D:55:ASN:OD1	1:D:130:THR:CG2	0.43	2.66	8	1
1:E:15:GLU:HG3	1:F:147:ALA:HA	0.43	1.91	8	2
1:A:89:GLN:HG3	1:A:149:ASN:HB2	0.42	1.91	1	1
1:F:89:GLN:HG3	1:F:149:ASN:HB2	0.42	1.91	1	1
1:A:144:THR:HG22	1:A:145:PRO:HD2	0.42	1.88	2	1
1:B:74:LEU:HD21	1:E:55:ASN:OD1	0.42	2.14	2	1
1:C:77:ALA:HB2	1:C:83:THR:HG23	0.42	1.90	2	1
1:B:97:THR:N	1:B:144:THR:HB	0.42	2.26	4	1
1:A:5:VAL:CG1	1:C:146:GLY:HA2	0.42	2.44	6	1
1:C:106:ARG:CZ	1:C:132:PRO:HG2	0.42	2.44	6	1
1:F:61:CYS:HB3	1:F:125:ASN:O	0.42	2.13	8	1
1:E:6:ASN:CB	1:F:155:LYS:HE2	0.42	2.44	9	1
1:B:92:ALA:O	1:E:50:SER:HB3	0.42	2.14	1	1
1:E:59:ASN:CA	1:E:128:THR:HG23	0.42	2.44	8	2
1:A:74:LEU:HD21	1:D:55:ASN:OD1	0.42	2.14	2	1
1:F:51:ALA:HA	1:F:136:ARG:HB3	0.42	1.90	3	1
1:B:4:THR:HG22	1:C:157:GLN:HB2	0.42	1.90	5	1
1:B:106:ARG:CZ	1:B:132:PRO:HG2	0.42	2.44	6	1
1:F:106:ARG:CZ	1:F:132:PRO:HG2	0.42	2.44	6	1
1:D:17:VAL:HG13	1:E:36:GLN:HG2	0.42	1.91	8	1
1:A:73:PHE:CB	1:A:111:LEU:HD11	0.42	2.44	9	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:73:PHE:CB	1:D:111:LEU:HD11	0.42	2.44	9	1
1:D:56:ILE:CG2	1:D:131:ILE:HD12	0.42	2.44	10	1
1:B:89:GLN:HG3	1:B:149:ASN:HB2	0.42	1.91	1	1
1:B:17:VAL:HG11	1:C:36:GLN:HE21	0.42	1.74	2	1
1:B:144:THR:HG22	1:B:145:PRO:HD2	0.42	1.88	2	1
1:A:92:ALA:HB3	1:D:34:LEU:HB3	0.42	1.91	3	1
1:B:51:ALA:HA	1:B:136:ARG:HB3	0.42	1.90	3	1
1:A:131:ILE:CD1	1:A:156:VAL:HG12	0.42	2.44	4	1
1:C:92:ALA:HA	1:F:50:SER:HB3	0.42	1.91	5	1
1:D:99:VAL:HB	1:D:143:ALA:HB1	0.42	1.91	5	1
1:B:62:ASP:HA	1:B:126:ASN:OD1	0.42	2.15	6	2
1:F:62:ASP:HA	1:F:126:ASN:OD1	0.42	2.15	6	2
1:A:17:VAL:HG23	1:B:38:ARG:HA	0.42	1.92	7	1
1:B:17:VAL:HG23	1:C:38:ARG:HA	0.42	1.91	7	1
1:E:63:THR:HA	1:E:66:ALA:O	0.42	2.14	7	1
1:E:118:PHE:CD1	1:E:157:GLN:HB2	0.42	2.48	8	1
1:B:6:ASN:CB	1:C:155:LYS:HE2	0.42	2.44	9	1
1:B:4:THR:O	1:B:5:VAL:HG13	0.42	2.14	10	1
1:B:59:ASN:CA	1:B:128:THR:HG23	0.42	2.44	8	2
1:E:17:VAL:HG11	1:F:36:GLN:HE21	0.42	1.74	2	1
1:E:97:THR:N	1:E:144:THR:HB	0.42	2.26	4	1
1:F:131:ILE:CD1	1:F:156:VAL:HG12	0.42	2.45	4	1
1:A:99:VAL:HB	1:A:143:ALA:HB1	0.42	1.90	5	1
1:B:92:ALA:HA	1:E:50:SER:HB3	0.42	1.91	5	1
1:E:17:VAL:HG23	1:F:38:ARG:HA	0.42	1.92	7	1
1:C:15:GLU:HG3	1:D:147:ALA:HA	0.42	1.91	8	1
1:B:86:LEU:CD1	1:B:152:ALA:HB2	0.42	2.45	10	1
1:F:56:ILE:CG2	1:F:131:ILE:HD12	0.42	2.44	10	1
1:B:105:ASP:HB2	1:B:111:LEU:HB2	0.42	1.91	1	2
1:F:24:ASP:HB3	1:F:27:SER:HB2	0.42	1.92	1	1
1:D:103:ILE:HG12	1:D:113:LEU:HG	0.42	1.89	8	2
1:E:131:ILE:CD1	1:E:156:VAL:HG12	0.42	2.45	4	1
1:C:84:ASN:HB3	1:C:102:GLN:HG2	0.42	1.91	5	1
1:C:99:VAL:HB	1:C:143:ALA:HB1	0.42	1.90	5	1
1:D:17:VAL:HG23	1:E:38:ARG:HA	0.42	1.92	7	1
1:C:86:LEU:HG	1:C:113:LEU:HD22	0.42	1.92	8	1
1:D:61:CYS:HB3	1:D:125:ASN:O	0.42	2.13	8	1
1:C:89:GLN:HG3	1:C:149:ASN:HB2	0.42	1.91	1	1
1:C:92:ALA:HB3	1:F:34:LEU:HB3	0.42	1.91	3	1
1:F:84:ASN:HB3	1:F:102:GLN:HG2	0.42	1.91	5	1
1:A:63:THR:HA	1:A:66:ALA:O	0.42	2.14	7	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:5:VAL:CB	1:D:17:VAL:HG12	0.42	2.45	8	1
1:C:6:ASN:CB	1:D:155:LYS:HE2	0.42	2.44	9	1
1:A:56:ILE:CG2	1:A:131:ILE:HD12	0.42	2.44	10	1
1:B:107:THR:HB	1:B:120:SER:HA	0.42	1.91	10	1
1:C:24:ASP:HB3	1:C:27:SER:HB2	0.42	1.92	1	1
1:D:89:GLN:HG3	1:D:149:ASN:HB2	0.42	1.91	1	1
1:A:77:ALA:HB2	1:A:83:THR:HG23	0.42	1.90	2	1
1:C:51:ALA:HA	1:C:136:ARG:HB3	0.42	1.90	3	1
1:D:73:PHE:HB2	1:D:103:ILE:HD13	0.42	1.92	3	1
1:D:73:PHE:HB3	1:D:113:LEU:HD23	0.42	1.92	4	1
1:A:62:ASP:HA	1:A:126:ASN:OD1	0.42	2.15	6	2
1:E:5:VAL:CB	1:F:17:VAL:HG12	0.42	2.45	8	1
1:A:4:THR:O	1:A:5:VAL:HG13	0.42	2.14	10	1
1:E:86:LEU:CD1	1:E:152:ALA:HB2	0.42	2.45	10	1
1:A:92:ALA:O	1:D:50:SER:HB3	0.42	2.14	1	1
1:A:73:PHE:HB2	1:A:103:ILE:HD13	0.42	1.92	3	2
1:C:131:ILE:CD1	1:C:156:VAL:HG12	0.42	2.45	4	1
1:B:5:VAL:CG1	1:D:146:GLY:HA2	0.42	2.44	6	1
1:D:62:ASP:HA	1:D:126:ASN:OD1	0.42	2.15	6	3
1:F:86:LEU:HG	1:F:113:LEU:HD22	0.42	1.92	8	1
1:E:4:THR:O	1:E:5:VAL:HG13	0.42	2.14	10	1
1:C:74:LEU:HD21	1:F:55:ASN:OD1	0.42	2.14	2	1
1:F:77:ALA:HB2	1:F:83:THR:HG23	0.42	1.90	2	1
1:B:17:VAL:HG21	1:C:36:GLN:HE21	0.42	1.75	3	1
1:C:73:PHE:HB2	1:C:103:ILE:HD13	0.42	1.92	3	1
1:E:17:VAL:HG21	1:F:36:GLN:HE21	0.42	1.75	3	1
1:F:73:PHE:HB3	1:F:113:LEU:HD23	0.42	1.92	4	1
1:B:116:ALA:HA	1:E:128:THR:O	0.42	2.15	5	1
1:E:84:ASN:HB3	1:E:102:GLN:HG2	0.42	1.91	5	1
1:F:99:VAL:HB	1:F:143:ALA:CB	0.42	2.45	5	1
1:A:15:GLU:HG3	1:B:147:ALA:HA	0.42	1.91	8	1
1:A:17:VAL:HG13	1:B:36:GLN:HG2	0.42	1.91	8	1
1:F:59:ASN:CA	1:F:128:THR:HG23	0.42	2.44	8	1
1:C:56:ILE:CG2	1:C:131:ILE:HD12	0.42	2.44	10	1
1:A:59:ASN:CA	1:A:128:THR:HG23	0.42	2.44	8	2
1:D:24:ASP:HB3	1:D:27:SER:HB2	0.42	1.92	1	1
1:E:39:THR:OG1	1:E:143:ALA:O	0.42	2.33	3	1
1:D:131:ILE:CD1	1:D:156:VAL:HG12	0.42	2.45	4	1
1:E:73:PHE:HB3	1:E:113:LEU:HD23	0.42	1.92	4	1
1:A:116:ALA:HA	1:D:128:THR:O	0.42	2.15	5	1
1:D:86:LEU:HG	1:D:113:LEU:HD22	0.42	1.92	8	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:98:ASN:HA	1:E:140:THR:OG1	0.42	2.13	9	1
1:C:107:THR:HB	1:C:120:SER:HA	0.42	1.91	10	1
1:A:92:ALA:HA	1:D:50:SER:HB3	0.41	1.91	5	1
1:C:56:ILE:CB	1:C:131:ILE:HD12	0.41	2.40	7	1
1:B:5:VAL:CB	1:C:17:VAL:HG12	0.41	2.45	8	1
1:E:17:VAL:HG13	1:F:36:GLN:HG2	0.41	1.91	8	1
1:B:56:ILE:CG2	1:B:131:ILE:HD12	0.41	2.44	10	1
1:E:56:ILE:CG2	1:E:131:ILE:HD12	0.41	2.44	10	1
1:F:73:PHE:HB2	1:F:103:ILE:HD13	0.41	1.92	3	1
1:B:131:ILE:CD1	1:B:156:VAL:HG12	0.41	2.45	4	1
1:A:84:ASN:HB3	1:A:102:GLN:HG2	0.41	1.91	5	1
1:C:17:VAL:HG13	1:D:36:GLN:HG2	0.41	1.91	8	1
1:B:89:GLN:OE1	1:B:91:SER:HB3	0.41	2.16	9	1
1:E:89:GLN:OE1	1:E:91:SER:HB3	0.41	2.16	9	1
1:F:4:THR:O	1:F:5:VAL:HG13	0.41	2.14	10	1
1:D:77:ALA:HB2	1:D:83:THR:HG23	0.41	1.90	2	1
1:E:73:PHE:HB2	1:E:103:ILE:HD13	0.41	1.92	2	2
1:A:73:PHE:HB3	1:A:113:LEU:HD23	0.41	1.92	4	1
1:A:22:ALA:HA	1:B:36:GLN:CB	0.41	2.46	5	1
1:D:84:ASN:HB3	1:D:102:GLN:HG2	0.41	1.91	5	1
1:E:4:THR:HG22	1:F:157:GLN:HB2	0.41	1.90	5	1
1:F:99:VAL:HB	1:F:143:ALA:HB1	0.41	1.90	5	1
1:D:63:THR:HA	1:D:66:ALA:O	0.41	2.14	7	1
1:A:5:VAL:CB	1:B:17:VAL:HG12	0.41	2.45	8	1
1:C:49:SER:HB2	1:C:137:TYR:HB2	0.41	1.93	8	1
1:C:86:LEU:CD1	1:C:152:ALA:HB2	0.41	2.45	10	1
1:E:86:LEU:HD23	1:E:87:ALA:H	0.41	1.75	10	1
1:C:92:ALA:O	1:F:50:SER:HB3	0.41	2.14	1	1
1:A:17:VAL:HG21	1:B:36:GLN:HE21	0.41	1.75	3	1
1:C:99:VAL:HB	1:C:143:ALA:CB	0.41	2.45	5	1
1:D:88:LEU:HD13	1:D:96:ALA:O	0.41	2.16	5	1
1:C:62:ASP:HA	1:C:126:ASN:OD1	0.41	2.15	6	2
1:A:86:LEU:HG	1:A:113:LEU:HD22	0.41	1.92	8	1
1:A:89:GLN:OE1	1:A:91:SER:HB3	0.41	2.16	9	1
1:F:75:GLY:C	1:F:113:LEU:HD23	0.41	2.36	9	1
1:C:86:LEU:HD23	1:C:87:ALA:H	0.41	1.75	10	1
1:D:4:THR:O	1:D:5:VAL:HG13	0.41	2.14	10	1
1:A:24:ASP:HB3	1:A:27:SER:HB2	0.41	1.92	1	1
1:B:24:ASP:HB3	1:B:27:SER:HB2	0.41	1.92	1	1
1:D:59:ASN:CA	1:D:128:THR:HG23	0.41	2.44	8	2
1:F:101:VAL:CG2	1:F:135:ALA:HB1	0.41	2.46	1	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:56:ILE:O	1:F:56:ILE:CG2	0.41	2.69	4	1
1:B:88:LEU:HD13	1:B:96:ALA:O	0.41	2.16	5	1
1:C:116:ALA:HA	1:F:128:THR:O	0.41	2.15	5	1
1:D:1:ALA:HA	1:E:159:GLN:HA	0.41	1.93	8	1
1:D:5:VAL:CB	1:E:17:VAL:HG12	0.41	2.45	8	1
1:E:49:SER:HB2	1:E:137:TYR:HB2	0.41	1.93	8	1
1:C:4:THR:O	1:C:5:VAL:HG13	0.41	2.14	10	1
1:D:86:LEU:CD1	1:D:152:ALA:HB2	0.41	2.45	10	1
1:F:86:LEU:HD23	1:F:87:ALA:H	0.41	1.75	10	1
1:F:86:LEU:CD1	1:F:152:ALA:HB2	0.41	2.45	10	1
1:B:101:VAL:CG2	1:B:135:ALA:HB1	0.41	2.46	1	1
1:D:17:VAL:HG21	1:E:36:GLN:HE21	0.41	1.75	3	1
1:C:73:PHE:HB3	1:C:113:LEU:HD23	0.41	1.92	4	1
1:A:99:VAL:HB	1:A:143:ALA:CB	0.41	2.45	5	1
1:B:99:VAL:HB	1:B:143:ALA:CB	0.41	2.45	5	1
1:D:22:ALA:HA	1:E:36:GLN:CB	0.41	2.46	5	1
1:D:58:LEU:HB2	1:D:129:ASN:O	0.41	2.15	5	1
1:E:88:LEU:HD13	1:E:96:ALA:O	0.41	2.16	5	1
1:F:88:LEU:HD13	1:F:96:ALA:O	0.41	2.15	5	1
1:E:62:ASP:HA	1:E:126:ASN:OD1	0.41	2.15	6	3
1:B:15:GLU:HG3	1:C:147:ALA:HA	0.41	1.91	8	2
1:C:75:GLY:C	1:C:113:LEU:HD23	0.41	2.36	9	1
1:D:75:GLY:C	1:D:113:LEU:HD23	0.41	2.36	9	1
1:E:75:GLY:C	1:E:113:LEU:HD23	0.41	2.36	9	1
1:A:86:LEU:CD1	1:A:152:ALA:HB2	0.41	2.45	10	1
1:E:58:LEU:O	1:E:61:CYS:SG	0.41	2.79	10	1
1:E:24:ASP:HB3	1:E:27:SER:HB2	0.41	1.92	1	1
1:A:17:VAL:HG11	1:B:36:GLN:HE21	0.41	1.74	2	1
1:A:45:GLU:HG3	1:A:140:THR:O	0.41	2.16	2	1
1:B:73:PHE:HB2	1:B:103:ILE:HD13	0.41	1.93	2	2
1:A:39:THR:OG1	1:A:143:ALA:O	0.41	2.37	4	2
1:B:73:PHE:HB3	1:B:113:LEU:HD23	0.41	1.92	4	1
1:D:56:ILE:O	1:D:56:ILE:CG2	0.41	2.69	4	1
1:B:22:ALA:HA	1:C:36:GLN:CB	0.41	2.46	5	1
1:C:58:LEU:HB2	1:C:129:ASN:O	0.41	2.15	5	1
1:C:88:LEU:HD13	1:C:96:ALA:O	0.41	2.15	5	1
1:F:84:ASN:HA	1:F:113:LEU:HB3	0.41	1.93	5	1
1:A:21:CYS:HB3	1:A:58:LEU:HD22	0.41	1.93	7	1
1:B:86:LEU:HD23	1:B:87:ALA:H	0.41	1.75	10	1
1:C:101:VAL:CG2	1:C:135:ALA:HB1	0.41	2.46	1	1
1:D:101:VAL:CG2	1:D:135:ALA:HB1	0.41	2.46	1	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:89:GLN:HG3	1:E:149:ASN:HB2	0.41	1.91	1	1
1:E:101:VAL:CG2	1:E:135:ALA:HB1	0.41	2.46	1	1
1:E:105:ASP:HB2	1:E:111:LEU:HB2	0.41	1.91	1	2
1:B:86:LEU:HD11	1:B:151:ASP:C	0.41	2.36	4	1
1:C:84:ASN:HA	1:C:113:LEU:HB3	0.41	1.93	5	1
1:E:58:LEU:HB2	1:E:129:ASN:O	0.41	2.15	5	1
1:B:89:GLN:O	1:E:52:VAL:HA	0.41	2.16	7	1
1:E:21:CYS:HB3	1:E:58:LEU:HD22	0.41	1.93	7	1
1:C:89:GLN:OE1	1:C:91:SER:HB3	0.41	2.16	9	1
1:A:101:VAL:CG2	1:A:135:ALA:HB1	0.41	2.46	1	1
1:C:79:ASP:HB2	1:C:140:THR:HG21	0.41	1.93	10	2
1:C:86:LEU:HD11	1:C:151:ASP:C	0.41	2.36	4	1
1:A:88:LEU:HD13	1:A:96:ALA:O	0.41	2.16	5	1
1:E:22:ALA:HA	1:F:36:GLN:CB	0.41	2.46	5	1
1:E:99:VAL:HB	1:E:143:ALA:CB	0.41	2.45	5	1
1:B:21:CYS:HB3	1:B:58:LEU:HD22	0.41	1.93	7	1
1:C:52:VAL:HG23	1:C:54:PHE:HD1	0.41	1.76	7	1
1:D:21:CYS:HB3	1:D:58:LEU:HD22	0.41	1.93	7	1
1:B:85:VAL:HG22	1:B:102:GLN:HG3	0.41	1.93	9	1
1:C:85:VAL:HG22	1:C:102:GLN:HG3	0.41	1.93	9	1
1:D:89:GLN:OE1	1:D:91:SER:HB3	0.41	2.16	9	1
1:F:89:GLN:OE1	1:F:91:SER:HB3	0.41	2.16	9	1
1:A:58:LEU:O	1:A:61:CYS:SG	0.41	2.79	10	1
1:B:58:LEU:O	1:B:61:CYS:SG	0.41	2.79	10	1
1:F:107:THR:HB	1:F:120:SER:HA	0.41	1.90	10	1
1:B:18:ASN:HA	1:C:39:THR:HG22	0.41	1.93	2	1
1:D:32:VAL:CG1	1:D:52:VAL:HG11	0.41	2.46	6	1
1:B:17:VAL:HG13	1:C:36:GLN:HG2	0.41	1.91	8	1
1:C:1:ALA:HA	1:D:159:GLN:HA	0.41	1.93	8	1
1:D:49:SER:HB2	1:D:137:TYR:HB2	0.41	1.93	8	1
1:C:84:ASN:O	1:C:103:ILE:HD12	0.41	2.16	9	1
1:F:79:ASP:HB2	1:F:140:THR:HG21	0.40	1.93	1	2
1:A:144:THR:HG22	1:A:145:PRO:N	0.40	2.31	2	1
1:E:18:ASN:HA	1:F:39:THR:HG22	0.40	1.93	2	1
1:F:42:LEU:HD23	1:F:99:VAL:CG1	0.40	2.46	2	1
1:A:58:LEU:HB2	1:A:129:ASN:O	0.40	2.15	5	1
1:C:111:LEU:HD11	1:C:117:THR:O	0.40	2.16	5	1
1:D:99:VAL:HB	1:D:143:ALA:CB	0.40	2.45	5	1
1:E:32:VAL:CG1	1:E:52:VAL:HG11	0.40	2.46	6	1
1:C:58:LEU:O	1:C:61:CYS:SG	0.40	2.79	10	1
1:B:42:LEU:HD23	1:B:99:VAL:CG1	0.40	2.46	2	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:45:GLU:HG3	1:E:140:THR:O	0.40	2.16	2	1
1:C:17:VAL:HG21	1:D:36:GLN:HE21	0.40	1.75	3	1
1:F:58:LEU:HB2	1:F:129:ASN:O	0.40	2.15	5	1
1:F:97:THR:O	1:F:99:VAL:HG12	0.40	2.17	6	1
1:B:7:GLY:HA3	1:C:154:PHE:CZ	0.40	2.51	7	1
1:C:89:GLN:O	1:F:52:VAL:HA	0.40	2.16	7	1
1:D:85:VAL:HG22	1:D:102:GLN:HG3	0.40	1.93	9	1
1:F:84:ASN:O	1:F:103:ILE:HD12	0.40	2.17	9	1
1:A:86:LEU:HD23	1:A:87:ALA:H	0.40	1.75	10	1
1:B:21:CYS:HB3	1:B:158:TYR:OH	0.40	2.16	10	1
1:B:52:VAL:O	1:B:134:GLN:HA	0.40	2.16	10	1
1:C:12:PHE:CD1	1:D:34:LEU:HD11	0.40	2.52	10	1
1:D:58:LEU:O	1:D:61:CYS:SG	0.40	2.79	10	1
1:F:52:VAL:O	1:F:134:GLN:HA	0.40	2.16	10	1
1:C:144:THR:HG22	1:C:145:PRO:N	0.40	2.31	2	1
1:D:85:VAL:HG21	1:D:138:PHE:HB3	0.40	1.93	2	1
1:A:86:LEU:HD11	1:A:151:ASP:C	0.40	2.36	4	1
1:C:56:ILE:O	1:C:56:ILE:CG2	0.40	2.69	4	1
1:D:86:LEU:HD11	1:D:151:ASP:C	0.40	2.36	4	1
1:E:78:ILE:HG22	1:E:82:HIS:HB3	0.40	1.94	4	1
1:B:58:LEU:HB2	1:B:129:ASN:O	0.40	2.15	5	1
1:B:32:VAL:CG1	1:B:52:VAL:HG11	0.40	2.46	6	1
1:B:155:LYS:CE	1:E:128:THR:HG21	0.40	2.47	6	1
1:C:17:VAL:HG23	1:D:38:ARG:HA	0.40	1.92	7	1
1:E:7:GLY:HA3	1:F:154:PHE:CZ	0.40	2.51	7	1
1:E:86:LEU:HG	1:E:113:LEU:HD22	0.40	1.92	8	1
1:B:75:GLY:C	1:B:113:LEU:HD23	0.40	2.36	9	1
1:B:116:ALA:HB3	1:E:125:ASN:HB3	0.40	1.94	9	1
1:E:85:VAL:HG22	1:E:102:GLN:HG3	0.40	1.93	9	1
1:D:12:PHE:CD1	1:E:34:LEU:HD11	0.40	2.52	10	1
1:E:97:THR:HB	1:E:144:THR:OG1	0.40	2.17	2	1
1:E:144:THR:HG22	1:E:145:PRO:N	0.40	2.32	2	1
1:F:97:THR:HB	1:F:144:THR:OG1	0.40	2.17	2	1
1:F:144:THR:HG22	1:F:145:PRO:N	0.40	2.31	2	1
1:C:10:VAL:HG13	1:D:32:VAL:HG23	0.40	1.94	3	1
1:D:78:ILE:HG22	1:D:82:HIS:HB3	0.40	1.94	4	1
1:E:86:LEU:HD11	1:E:151:ASP:C	0.40	2.36	4	1
1:C:22:ALA:HA	1:D:36:GLN:CB	0.40	2.46	5	1
1:C:155:LYS:CE	1:F:128:THR:HG21	0.40	2.47	6	1
1:C:21:CYS:HB3	1:C:58:LEU:HD22	0.40	1.93	7	1
1:F:21:CYS:HB3	1:F:58:LEU:HD22	0.40	1.93	7	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:12:PHE:CD1	1:B:34:LEU:HD11	0.40	2.51	10	1
1:E:52:VAL:O	1:E:134:GLN:HA	0.40	2.16	10	1
1:C:18:ASN:HA	1:D:39:THR:HG22	0.40	1.93	2	1
1:C:97:THR:HB	1:C:144:THR:OG1	0.40	2.17	2	1
1:A:56:ILE:O	1:A:56:ILE:CG2	0.40	2.69	4	1
1:B:39:THR:OG1	1:B:143:ALA:O	0.40	2.37	4	1
1:C:78:ILE:HG22	1:C:82:HIS:HB3	0.40	1.94	4	1
1:F:86:LEU:HD11	1:F:151:ASP:C	0.40	2.36	4	1
1:D:131:ILE:HD13	1:D:156:VAL:HG11	0.40	1.94	5	1
1:F:131:ILE:HD13	1:F:156:VAL:HG11	0.40	1.93	5	1
1:C:97:THR:O	1:C:99:VAL:HG12	0.40	2.17	6	1
1:B:72:ALA:HA	1:B:117:THR:O	0.40	2.17	7	1
1:E:72:ALA:HA	1:E:117:THR:O	0.40	2.17	7	1
1:F:52:VAL:HG23	1:F:54:PHE:HD1	0.40	1.76	7	1
1:A:75:GLY:C	1:A:113:LEU:HD23	0.40	2.36	9	1
1:A:78:ILE:HG22	1:A:85:VAL:HB	0.40	1.93	9	1
1:B:84:ASN:O	1:B:103:ILE:HD12	0.40	2.17	9	1
1:D:52:VAL:O	1:D:134:GLN:HA	0.40	2.16	10	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	157/160 (98%)	135±4 (86±2%)	18±4 (12±3%)	4±2 (2±1%)	9	46
1	B	157/160 (98%)	135±4 (86±2%)	18±4 (12±3%)	4±2 (2±1%)	9	46
1	C	157/160 (98%)	135±4 (86±2%)	18±4 (12±3%)	4±2 (2±1%)	9	46
1	D	157/160 (98%)	135±4 (86±2%)	18±4 (12±3%)	4±2 (2±1%)	9	46
1	E	157/160 (98%)	135±4 (86±2%)	18±4 (12±3%)	4±2 (2±1%)	9	46
1	F	157/160 (98%)	135±4 (86±2%)	18±4 (12±3%)	4±2 (2±1%)	9	46
All	All	9420/9600 (98%)	8088 (86%)	1106 (12%)	226 (2%)	9	46

All 90 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	80	ALA	6
1	A	90	SER	6
1	B	80	ALA	6
1	B	90	SER	6
1	C	80	ALA	6
1	C	90	SER	6
1	D	80	ALA	6
1	D	90	SER	6
1	E	80	ALA	6
1	E	90	SER	6
1	F	80	ALA	6
1	F	90	SER	6
1	A	89	GLN	5
1	A	94	GLY	5
1	B	89	GLN	5
1	B	94	GLY	5
1	C	89	GLN	5
1	C	94	GLY	5
1	D	89	GLN	5
1	D	94	GLY	5
1	E	89	GLN	5
1	E	94	GLY	5
1	F	89	GLN	5
1	F	94	GLY	5
1	A	2	ALA	4
1	B	2	ALA	4
1	C	2	ALA	4
1	D	2	ALA	4
1	E	2	ALA	4
1	F	2	ALA	4
1	A	142	ALA	2
1	B	142	ALA	2
1	C	142	ALA	2
1	D	142	ALA	2
1	E	142	ALA	2
1	F	142	ALA	2
1	B	19	ALA	2
1	C	19	ALA	2
1	E	19	ALA	2
1	F	19	ALA	2
1	A	65	VAL	1
1	B	65	VAL	1
1	C	65	VAL	1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	D	65	VAL	1
1	E	65	VAL	1
1	F	65	VAL	1
1	A	21	CYS	1
1	A	83	THR	1
1	B	21	CYS	1
1	B	83	THR	1
1	C	21	CYS	1
1	C	83	THR	1
1	D	21	CYS	1
1	D	83	THR	1
1	E	21	CYS	1
1	E	83	THR	1
1	F	21	CYS	1
1	F	83	THR	1
1	A	20	ALA	1
1	A	60	ASP	1
1	A	99	VAL	1
1	A	141	GLY	1
1	B	20	ALA	1
1	B	60	ASP	1
1	B	99	VAL	1
1	B	141	GLY	1
1	C	20	ALA	1
1	C	60	ASP	1
1	C	99	VAL	1
1	C	141	GLY	1
1	D	20	ALA	1
1	D	60	ASP	1
1	D	99	VAL	1
1	D	141	GLY	1
1	E	20	ALA	1
1	E	60	ASP	1
1	E	99	VAL	1
1	E	141	GLY	1
1	F	20	ALA	1
1	F	60	ASP	1
1	F	99	VAL	1
1	F	141	GLY	1
1	A	19	ALA	1
1	D	19	ALA	1
1	A	28	VAL	1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	B	28	VAL	1
1	C	28	VAL	1
1	D	28	VAL	1
1	E	28	VAL	1
1	F	28	VAL	1

6.3.2 Protein sidechains (i)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	112/113 (99%)	72±4 (64±3%)	40±4 (36±3%)	1 8
1	B	112/113 (99%)	72±4 (64±3%)	40±4 (36±3%)	1 8
1	C	112/113 (99%)	72±4 (64±3%)	40±4 (36±3%)	1 8
1	D	112/113 (99%)	72±4 (64±3%)	40±4 (36±3%)	1 8
1	E	112/113 (99%)	72±4 (64±3%)	40±4 (36±3%)	1 8
1	F	112/113 (99%)	72±4 (64±3%)	40±4 (36±3%)	1 8
All	All	6720/6780 (99%)	4320 (64%)	2400 (36%)	1 8

All 564 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	79	ASP	10
1	A	133	PHE	10
1	B	79	ASP	10
1	B	133	PHE	10
1	C	79	ASP	10
1	C	133	PHE	10
1	D	79	ASP	10
1	D	133	PHE	10
1	E	79	ASP	10
1	E	133	PHE	10
1	F	79	ASP	10
1	F	133	PHE	10
1	A	21	CYS	9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	76	THR	9
1	A	86	LEU	9
1	A	122	THR	9
1	B	21	CYS	9
1	B	76	THR	9
1	B	86	LEU	9
1	B	122	THR	9
1	C	21	CYS	9
1	C	76	THR	9
1	C	86	LEU	9
1	C	122	THR	9
1	D	21	CYS	9
1	D	76	THR	9
1	D	86	LEU	9
1	D	122	THR	9
1	E	21	CYS	9
1	E	76	THR	9
1	E	86	LEU	9
1	E	122	THR	9
1	F	21	CYS	9
1	F	76	THR	9
1	F	86	LEU	9
1	F	122	THR	9
1	A	58	LEU	8
1	A	130	THR	8
1	A	140	THR	8
1	B	58	LEU	8
1	B	130	THR	8
1	B	140	THR	8
1	C	58	LEU	8
1	C	130	THR	8
1	C	140	THR	8
1	D	58	LEU	8
1	D	130	THR	8
1	D	140	THR	8
1	E	58	LEU	8
1	E	130	THR	8
1	E	140	THR	8
1	F	58	LEU	8
1	F	130	THR	8
1	F	140	THR	8
1	A	31	THR	7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	41	SER	7
1	A	63	THR	7
1	A	67	SER	7
1	A	73	PHE	7
1	A	103	ILE	7
1	A	106	ARG	7
1	A	114	ASP	7
1	A	120	SER	7
1	B	31	THR	7
1	B	41	SER	7
1	B	63	THR	7
1	B	67	SER	7
1	B	73	PHE	7
1	B	103	ILE	7
1	B	106	ARG	7
1	B	114	ASP	7
1	B	120	SER	7
1	C	31	THR	7
1	C	41	SER	7
1	C	63	THR	7
1	C	67	SER	7
1	C	73	PHE	7
1	C	103	ILE	7
1	C	106	ARG	7
1	C	114	ASP	7
1	C	120	SER	7
1	D	31	THR	7
1	D	41	SER	7
1	D	63	THR	7
1	D	67	SER	7
1	D	73	PHE	7
1	D	103	ILE	7
1	D	106	ARG	7
1	D	114	ASP	7
1	D	120	SER	7
1	E	31	THR	7
1	E	41	SER	7
1	E	63	THR	7
1	E	67	SER	7
1	E	73	PHE	7
1	E	103	ILE	7
1	E	106	ARG	7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	E	114	ASP	7
1	E	120	SER	7
1	F	31	THR	7
1	F	41	SER	7
1	F	63	THR	7
1	F	67	SER	7
1	F	73	PHE	7
1	F	103	ILE	7
1	F	106	ARG	7
1	F	114	ASP	7
1	F	120	SER	7
1	A	74	LEU	7
1	B	74	LEU	7
1	C	74	LEU	7
1	D	74	LEU	7
1	E	74	LEU	7
1	F	74	LEU	7
1	A	44	GLN	6
1	A	62	ASP	6
1	A	104	LEU	6
1	A	117	THR	6
1	A	153	THR	6
1	A	154	PHE	6
1	B	44	GLN	6
1	B	62	ASP	6
1	B	104	LEU	6
1	B	117	THR	6
1	B	153	THR	6
1	B	154	PHE	6
1	C	44	GLN	6
1	C	62	ASP	6
1	C	104	LEU	6
1	C	117	THR	6
1	C	153	THR	6
1	C	154	PHE	6
1	D	44	GLN	6
1	D	62	ASP	6
1	D	104	LEU	6
1	D	117	THR	6
1	D	153	THR	6
1	D	154	PHE	6
1	E	44	GLN	6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	E	62	ASP	6
1	E	104	LEU	6
1	E	117	THR	6
1	E	153	THR	6
1	E	154	PHE	6
1	F	44	GLN	6
1	F	62	ASP	6
1	F	104	LEU	6
1	F	117	THR	6
1	F	153	THR	6
1	F	154	PHE	6
1	A	88	LEU	6
1	A	102	GLN	6
1	A	157	GLN	6
1	B	88	LEU	6
1	B	102	GLN	6
1	B	157	GLN	6
1	C	88	LEU	6
1	C	102	GLN	6
1	C	157	GLN	6
1	D	88	LEU	6
1	D	102	GLN	6
1	D	157	GLN	6
1	E	88	LEU	6
1	E	102	GLN	6
1	E	157	GLN	6
1	F	88	LEU	6
1	F	102	GLN	6
1	F	157	GLN	6
1	A	57	GLN	6
1	A	89	GLN	6
1	B	57	GLN	6
1	B	89	GLN	6
1	C	57	GLN	6
1	C	89	GLN	6
1	D	57	GLN	6
1	D	89	GLN	6
1	E	57	GLN	6
1	E	89	GLN	6
1	F	57	GLN	6
1	F	89	GLN	6
1	A	137	TYR	6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	B	137	TYR	6
1	C	137	TYR	6
1	D	137	TYR	6
1	E	137	TYR	6
1	F	137	TYR	6
1	A	42	LEU	5
1	A	60	ASP	5
1	A	83	THR	5
1	A	159	GLN	5
1	B	42	LEU	5
1	B	60	ASP	5
1	B	83	THR	5
1	B	159	GLN	5
1	C	42	LEU	5
1	C	60	ASP	5
1	C	83	THR	5
1	C	159	GLN	5
1	D	42	LEU	5
1	D	60	ASP	5
1	D	83	THR	5
1	D	159	GLN	5
1	E	42	LEU	5
1	E	60	ASP	5
1	E	83	THR	5
1	E	159	GLN	5
1	F	42	LEU	5
1	F	60	ASP	5
1	F	83	THR	5
1	F	159	GLN	5
1	A	34	LEU	5
1	A	138	PHE	5
1	B	34	LEU	5
1	B	138	PHE	5
1	C	34	LEU	5
1	C	138	PHE	5
1	D	34	LEU	5
1	D	138	PHE	5
1	E	34	LEU	5
1	E	138	PHE	5
1	F	34	LEU	5
1	F	138	PHE	5
1	A	29	ASP	5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	68	LYS	5
1	A	112	THR	5
1	B	29	ASP	5
1	B	68	LYS	5
1	B	112	THR	5
1	C	29	ASP	5
1	C	68	LYS	5
1	C	112	THR	5
1	D	29	ASP	5
1	D	68	LYS	5
1	D	112	THR	5
1	E	29	ASP	5
1	E	68	LYS	5
1	E	112	THR	5
1	F	29	ASP	5
1	F	68	LYS	5
1	F	112	THR	5
1	A	33	GLN	5
1	A	95	SER	5
1	B	33	GLN	5
1	B	95	SER	5
1	C	33	GLN	5
1	C	95	SER	5
1	D	33	GLN	5
1	D	95	SER	5
1	E	33	GLN	5
1	E	95	SER	5
1	F	33	GLN	5
1	F	95	SER	5
1	A	13	LYS	5
1	A	97	THR	5
1	A	124	LEU	5
1	B	13	LYS	5
1	B	97	THR	5
1	B	124	LEU	5
1	C	13	LYS	5
1	C	97	THR	5
1	C	124	LEU	5
1	D	13	LYS	5
1	D	97	THR	5
1	D	124	LEU	5
1	E	13	LYS	5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	E	97	THR	5
1	E	124	LEU	5
1	F	13	LYS	5
1	F	97	THR	5
1	F	124	LEU	5
1	A	38	ARG	4
1	A	39	THR	4
1	B	38	ARG	4
1	B	39	THR	4
1	C	38	ARG	4
1	C	39	THR	4
1	D	38	ARG	4
1	D	39	THR	4
1	E	38	ARG	4
1	E	39	THR	4
1	F	38	ARG	4
1	F	39	THR	4
1	A	18	ASN	4
1	A	23	VAL	4
1	B	18	ASN	4
1	B	23	VAL	4
1	C	18	ASN	4
1	C	23	VAL	4
1	D	18	ASN	4
1	D	23	VAL	4
1	E	18	ASN	4
1	E	23	VAL	4
1	F	18	ASN	4
1	F	23	VAL	4
1	A	5	VAL	4
1	A	59	ASN	4
1	B	5	VAL	4
1	B	59	ASN	4
1	C	5	VAL	4
1	C	59	ASN	4
1	D	5	VAL	4
1	D	59	ASN	4
1	E	5	VAL	4
1	E	59	ASN	4
1	F	5	VAL	4
1	F	59	ASN	4
1	A	91	SER	3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	99	VAL	3
1	B	91	SER	3
1	B	99	VAL	3
1	C	91	SER	3
1	C	99	VAL	3
1	D	91	SER	3
1	D	99	VAL	3
1	E	91	SER	3
1	E	99	VAL	3
1	F	91	SER	3
1	F	99	VAL	3
1	A	78	ILE	3
1	A	90	SER	3
1	A	125	ASN	3
1	B	78	ILE	3
1	B	90	SER	3
1	B	125	ASN	3
1	C	78	ILE	3
1	C	90	SER	3
1	C	125	ASN	3
1	D	78	ILE	3
1	D	90	SER	3
1	D	125	ASN	3
1	E	78	ILE	3
1	E	90	SER	3
1	E	125	ASN	3
1	F	78	ILE	3
1	F	90	SER	3
1	F	125	ASN	3
1	A	15	GLU	3
1	A	64	ASN	3
1	A	119	SER	3
1	A	156	VAL	3
1	B	15	GLU	3
1	B	64	ASN	3
1	B	119	SER	3
1	B	156	VAL	3
1	C	15	GLU	3
1	C	64	ASN	3
1	C	119	SER	3
1	C	156	VAL	3
1	D	15	GLU	3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	D	64	ASN	3
1	D	119	SER	3
1	D	156	VAL	3
1	E	15	GLU	3
1	E	64	ASN	3
1	E	119	SER	3
1	E	156	VAL	3
1	F	15	GLU	3
1	F	64	ASN	3
1	F	119	SER	3
1	F	156	VAL	3
1	A	4	THR	3
1	A	126	ASN	3
1	B	4	THR	3
1	B	126	ASN	3
1	C	4	THR	3
1	C	126	ASN	3
1	D	4	THR	3
1	D	126	ASN	3
1	E	4	THR	3
1	E	126	ASN	3
1	F	4	THR	3
1	F	126	ASN	3
1	A	27	SER	3
1	B	27	SER	3
1	C	27	SER	3
1	D	27	SER	3
1	E	27	SER	3
1	F	27	SER	3
1	A	3	THR	2
1	A	56	ILE	2
1	B	3	THR	2
1	B	56	ILE	2
1	C	3	THR	2
1	C	56	ILE	2
1	D	3	THR	2
1	D	56	ILE	2
1	E	3	THR	2
1	E	56	ILE	2
1	F	3	THR	2
1	F	56	ILE	2
1	A	101	VAL	2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	B	101	VAL	2
1	C	101	VAL	2
1	D	101	VAL	2
1	E	101	VAL	2
1	F	101	VAL	2
1	A	50	SER	2
1	A	113	LEU	2
1	B	50	SER	2
1	B	113	LEU	2
1	C	50	SER	2
1	C	113	LEU	2
1	D	50	SER	2
1	D	113	LEU	2
1	E	50	SER	2
1	E	113	LEU	2
1	F	50	SER	2
1	F	113	LEU	2
1	A	82	HIS	2
1	B	82	HIS	2
1	C	82	HIS	2
1	D	82	HIS	2
1	E	82	HIS	2
1	F	82	HIS	2
1	A	84	ASN	2
1	A	85	VAL	2
1	A	123	THR	2
1	A	131	ILE	2
1	B	84	ASN	2
1	B	85	VAL	2
1	B	123	THR	2
1	B	131	ILE	2
1	C	84	ASN	2
1	C	85	VAL	2
1	C	123	THR	2
1	C	131	ILE	2
1	D	84	ASN	2
1	D	85	VAL	2
1	D	123	THR	2
1	D	131	ILE	2
1	E	84	ASN	2
1	E	85	VAL	2
1	E	123	THR	2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	E	131	ILE	2
1	F	84	ASN	2
1	F	85	VAL	2
1	F	123	THR	2
1	F	131	ILE	2
1	A	36	GLN	2
1	B	36	GLN	2
1	C	36	GLN	2
1	D	36	GLN	2
1	E	36	GLN	2
1	F	36	GLN	2
1	A	17	VAL	2
1	A	105	ASP	2
1	A	111	LEU	2
1	A	136	ARG	2
1	A	155	LYS	2
1	B	17	VAL	2
1	B	105	ASP	2
1	B	111	LEU	2
1	B	136	ARG	2
1	B	155	LYS	2
1	C	17	VAL	2
1	C	105	ASP	2
1	C	111	LEU	2
1	C	136	ARG	2
1	C	155	LYS	2
1	D	17	VAL	2
1	D	105	ASP	2
1	D	111	LEU	2
1	D	136	ARG	2
1	D	155	LYS	2
1	E	17	VAL	2
1	E	105	ASP	2
1	E	111	LEU	2
1	E	136	ARG	2
1	E	155	LYS	2
1	F	17	VAL	2
1	F	105	ASP	2
1	F	111	LEU	2
1	F	136	ARG	2
1	F	155	LYS	2
1	A	9	THR	2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	B	9	THR	2
1	C	9	THR	2
1	D	9	THR	2
1	E	9	THR	2
1	F	9	THR	2
1	A	24	ASP	1
1	A	30	GLN	1
1	A	61	CYS	1
1	A	134	GLN	1
1	A	144	THR	1
1	B	24	ASP	1
1	B	30	GLN	1
1	B	61	CYS	1
1	B	134	GLN	1
1	B	144	THR	1
1	C	24	ASP	1
1	C	30	GLN	1
1	C	61	CYS	1
1	C	134	GLN	1
1	C	144	THR	1
1	D	24	ASP	1
1	D	30	GLN	1
1	D	61	CYS	1
1	D	134	GLN	1
1	D	144	THR	1
1	E	24	ASP	1
1	E	30	GLN	1
1	E	61	CYS	1
1	E	134	GLN	1
1	E	144	THR	1
1	F	24	ASP	1
1	F	30	GLN	1
1	F	61	CYS	1
1	F	134	GLN	1
1	F	144	THR	1
1	A	10	VAL	1
1	A	49	SER	1
1	A	71	VAL	1
1	B	10	VAL	1
1	B	49	SER	1
1	B	71	VAL	1
1	C	10	VAL	1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	C	49	SER	1
1	C	71	VAL	1
1	D	10	VAL	1
1	D	49	SER	1
1	D	71	VAL	1
1	E	10	VAL	1
1	E	49	SER	1
1	E	71	VAL	1
1	F	10	VAL	1
1	F	49	SER	1
1	F	71	VAL	1
1	A	16	VAL	1
1	A	107	THR	1
1	B	16	VAL	1
1	B	107	THR	1
1	C	16	VAL	1
1	C	107	THR	1
1	D	16	VAL	1
1	D	107	THR	1
1	E	16	VAL	1
1	E	107	THR	1
1	F	16	VAL	1
1	F	107	THR	1
1	A	32	VAL	1
1	A	149	ASN	1
1	B	32	VAL	1
1	B	149	ASN	1
1	C	32	VAL	1
1	C	149	ASN	1
1	D	32	VAL	1
1	D	149	ASN	1
1	E	32	VAL	1
1	E	149	ASN	1
1	F	32	VAL	1
1	F	149	ASN	1
1	A	12	PHE	1
1	A	37	VAL	1
1	B	12	PHE	1
1	B	37	VAL	1
1	C	12	PHE	1
1	C	37	VAL	1
1	D	12	PHE	1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	D	37	VAL	1
1	E	12	PHE	1
1	E	37	VAL	1
1	F	12	PHE	1
1	F	37	VAL	1

6.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates (i)

There are no monosaccharides in this entry.

6.6 Ligand geometry (i)

There are no ligands in this entry.

6.7 Other polymers (i)

There are no such molecules in this entry.

6.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

7 Chemical shift validation (i)

The completeness of assignment taking into account all chemical shift lists is 7% for the well-defined parts and 7% 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 (i)

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	800
Number of shifts mapped to atoms	800
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	159	0.23 ± 0.12	None needed (< 0.5 ppm)
$^{13}C_{\beta}$	143	-0.40 ± 0.13	None needed (< 0.5 ppm)
$^{13}C'$	159	0.53 ± 0.22	Should be applied
^{15}N	159	0.45 ± 0.34	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 7%, i.e. 783 atoms were assigned a chemical shift out of a possible 11361. 0 out of 150 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	472/4837 (10%)	0/1990 (0%)	316/1906 (17%)	156/941 (17%)
Sidechain	299/5912 (5%)	0/3903 (0%)	297/1811 (16%)	2/198 (1%)

Continued on next page...

Continued from previous page...

	Total	^{1}H	^{13}C	^{15}N
Aromatic	12/612 (2%)	0/306 (0%)	12/294 (4%)	0/12 (0%)
Overall	783/11361 (7%)	0/6199 (0%)	625/4011 (16%)	158/1151 (14%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 7%, i.e. 787 atoms were assigned a chemical shift out of a possible 11370. 0 out of 150 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	475/4842 (10%)	0/1992 (0%)	318/1908 (17%)	157/942 (17%)
Sidechain	300/5916 (5%)	0/3906 (0%)	298/1812 (16%)	2/198 (1%)
Aromatic	12/612 (2%)	0/306 (0%)	12/294 (4%)	0/12 (0%)
Overall	787/11370 (7%)	0/6204 (0%)	628/4014 (16%)	159/1152 (14%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

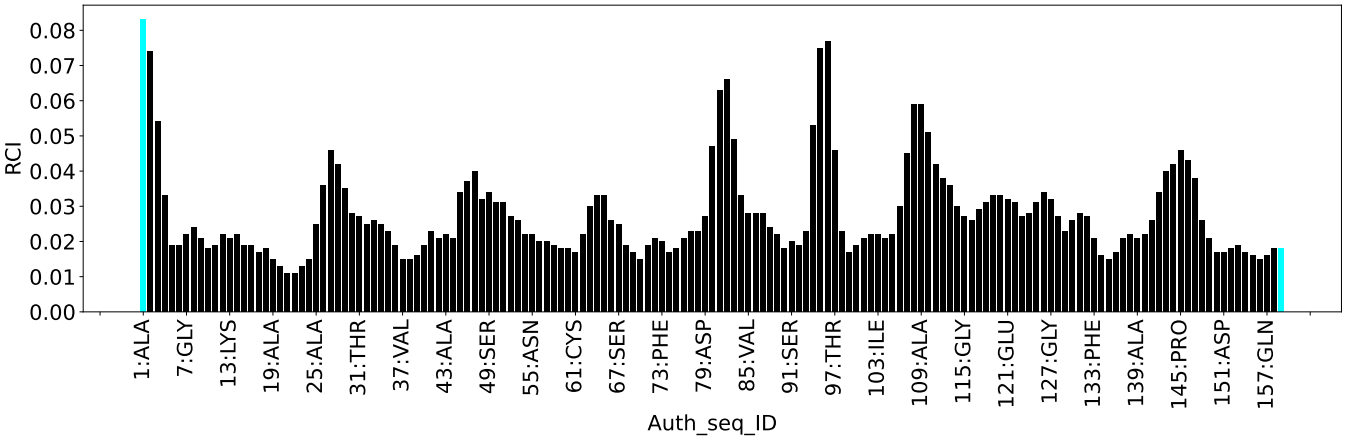
7.1.4 Statistically unusual chemical shifts (i)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots (i)

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

Random coil index (RCI) for chain A:


RCI
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
0.08
1:ALA
7:GLY
13:LYS
19:ALA
25:ALA
31:THR
37:VAL
43:ALA
49:SER
55:ASN
61:CYS
67:SER
73:PHE
79:ASP
85:VAL
91:SER
97:THR
103:ILE
109:ALA
115:GLY
121:GLU
127:GLY
133:PHE
139:ALA
145:PRO
151:ASP
157:GLN
Auth_seq_ID