Full wwPDB NMR Structure Validation Report (i)

Feb 27, 2022 – 10:51 AM EST

PDB ID	:	2CXJ
Title	:	3D Solution Structure of S100A13
Authors	:	Vaithiyalingam, S.; Kumar, T.K.S.; Yu, C.
Deposited on	:	2005-06-30

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

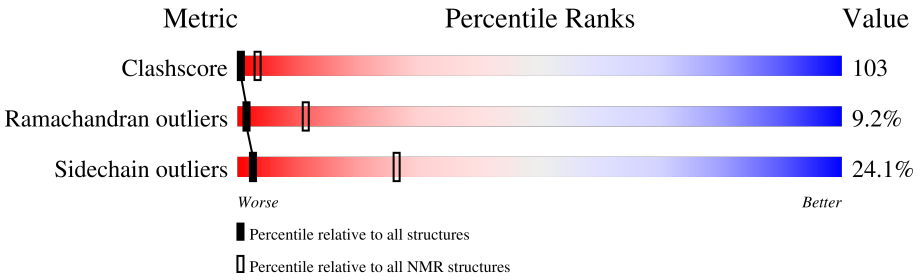
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
ShiftChecker	:	2.27
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.27

1 Overall quality at a glance

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

The overall completeness of chemical shifts assignment was not calculated.

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	98	15% 63% 21%
1	B	98	14% 64% 21%

2 Ensemble composition and analysis (i)

This entry contains 20 models. Model 7 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:1-A:98, B:1-B:98 (196)	0.46	7

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

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

The models can be grouped into 3 clusters. No single-model clusters were found.

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

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 3184 atoms, of which 1614 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called S100 calcium-binding protein A13.

Mol	Chain	Residues	Atoms						Trace
1	A	98	Total	C	H	N	O	S	0
			1592	496	807	135	152	2	
1	B	98	Total	C	H	N	O	S	0
			1592	496	807	135	152	2	

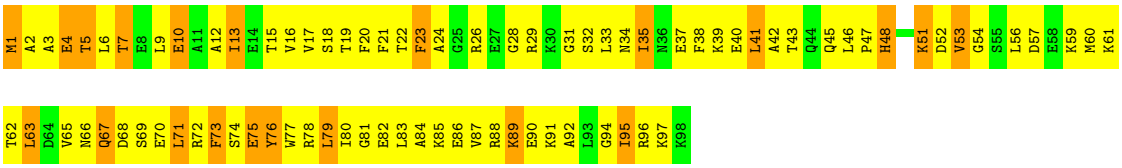
4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

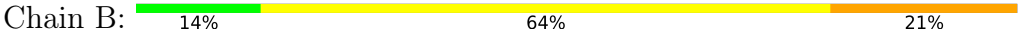
• Molecule 1: S100 calcium-binding protein A13

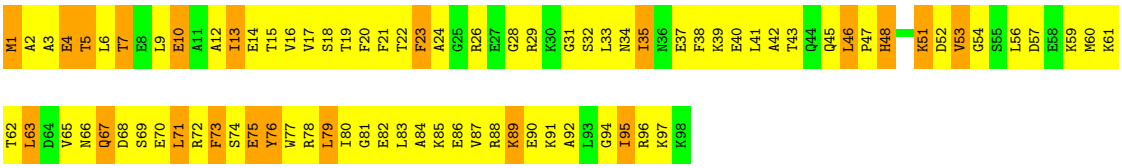
Chain A:



• Molecule 1: S100 calcium-binding protein A13

Chain B:





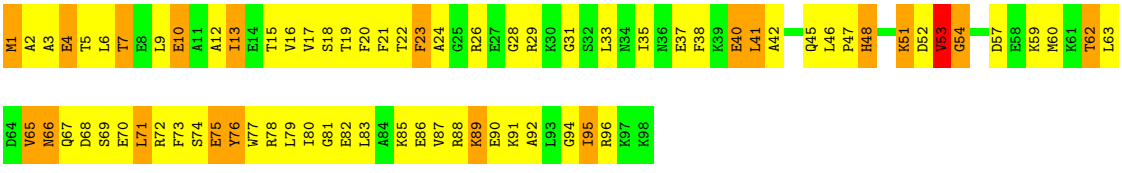
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

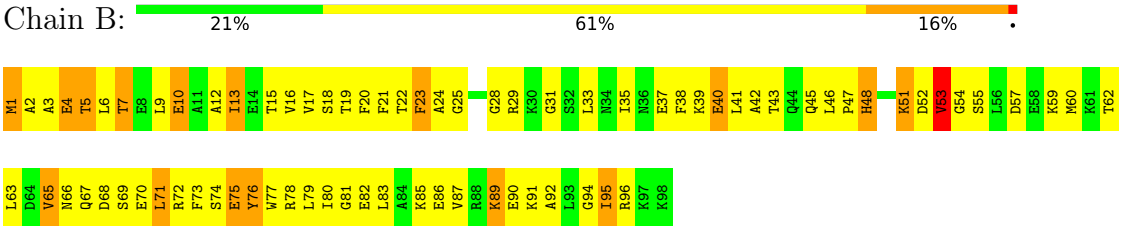
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

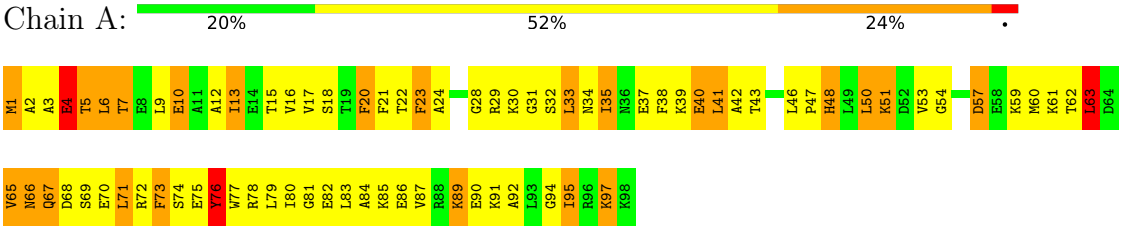
Chain B:



4.2.2 Score per residue for model 2

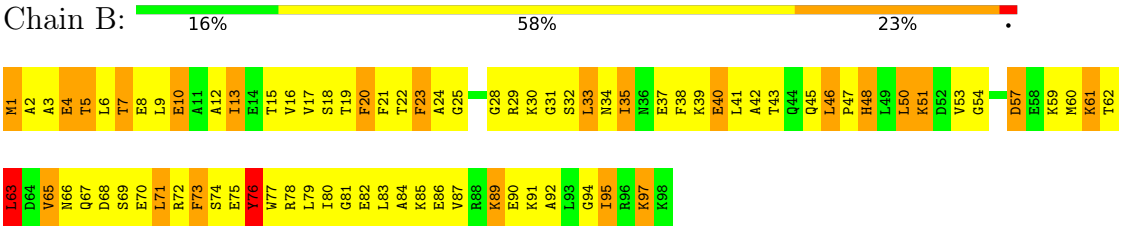
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

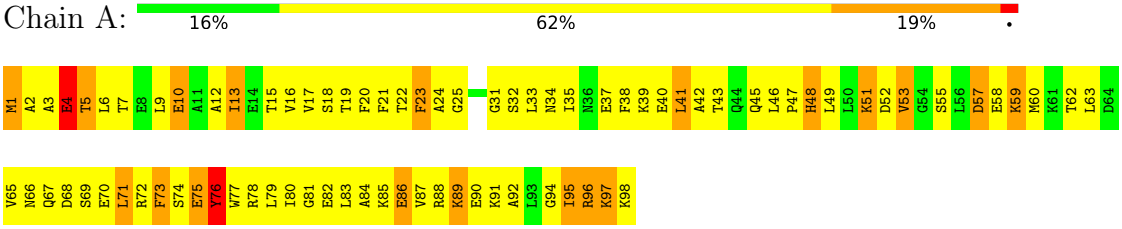
Chain B:



4.2.3 Score per residue for model 3

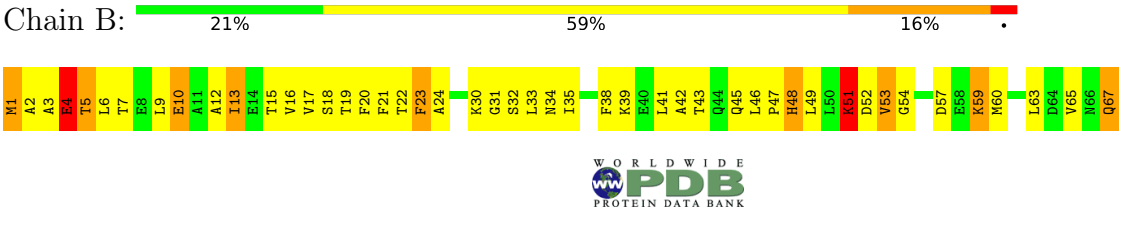
• Molecule 1: S100 calcium-binding protein A13

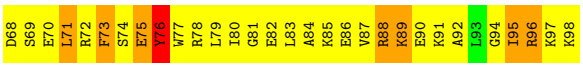
Chain A:



• Molecule 1: S100 calcium-binding protein A13

Chain B:

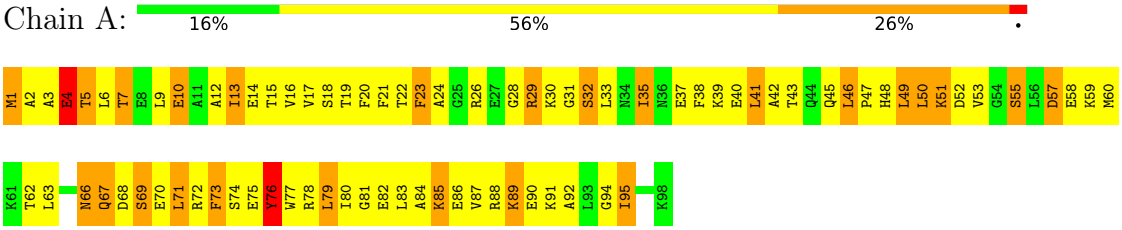




4.2.4 Score per residue for model 4

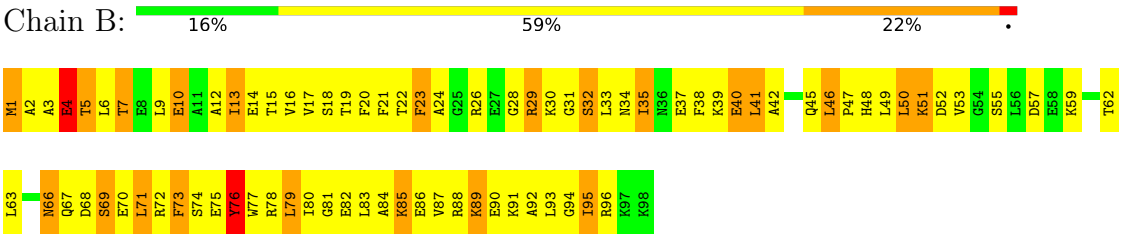
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

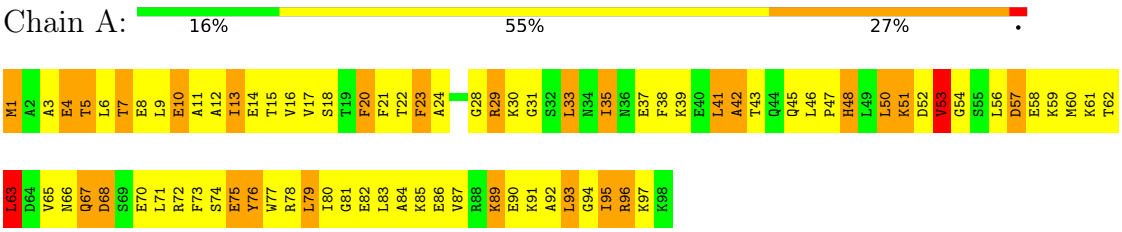
Chain B:



4.2.5 Score per residue for model 5

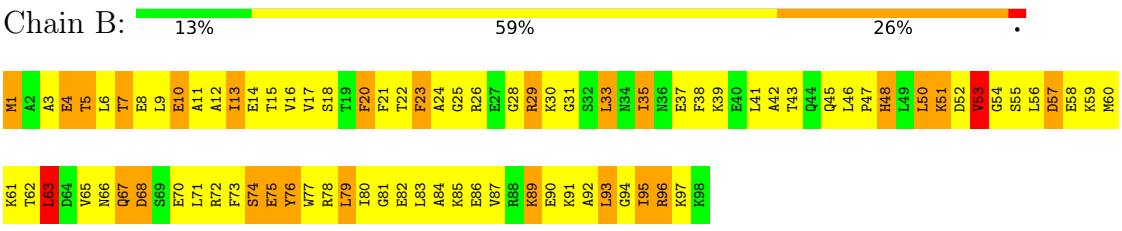
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

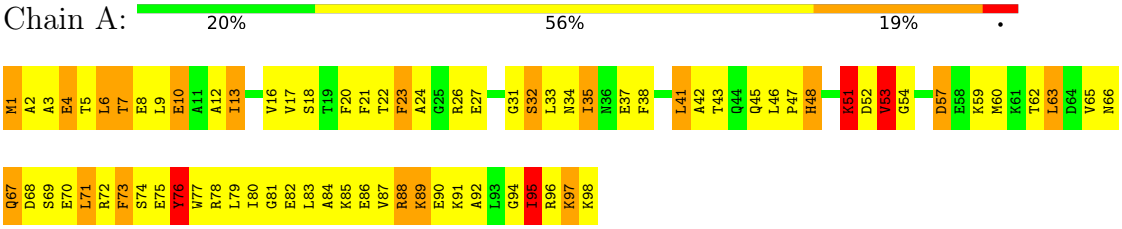
Chain B:



4.2.6 Score per residue for model 6

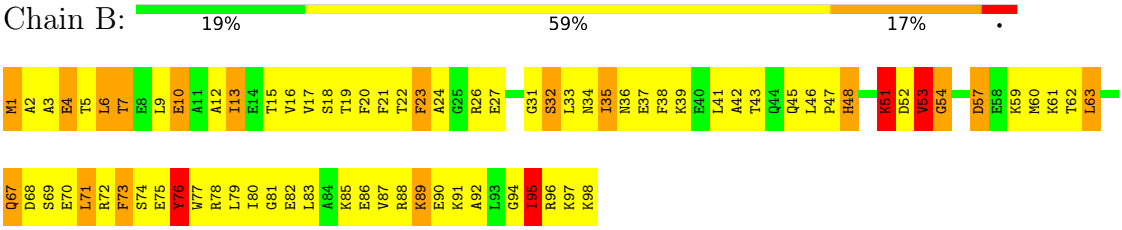
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

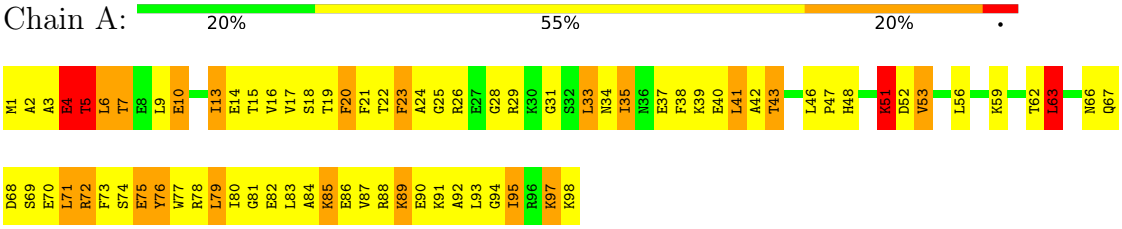
Chain B:



4.2.7 Score per residue for model 7 (medoid)

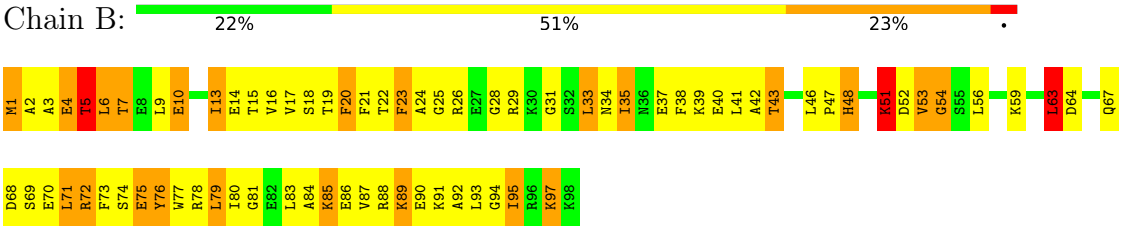
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

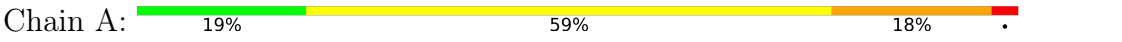
Chain B:



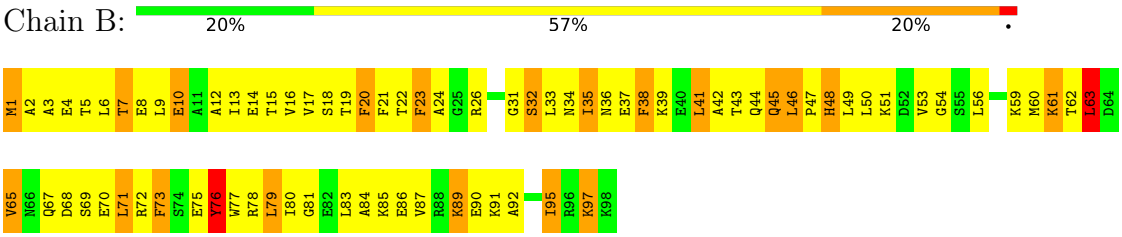
4.2.8 Score per residue for model 8

• Molecule 1: S100 calcium-binding protein A13

Chain A:

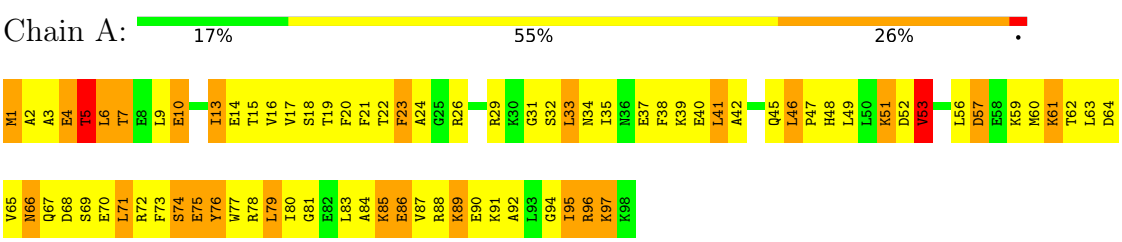


• Molecule 1: S100 calcium-binding protein A13

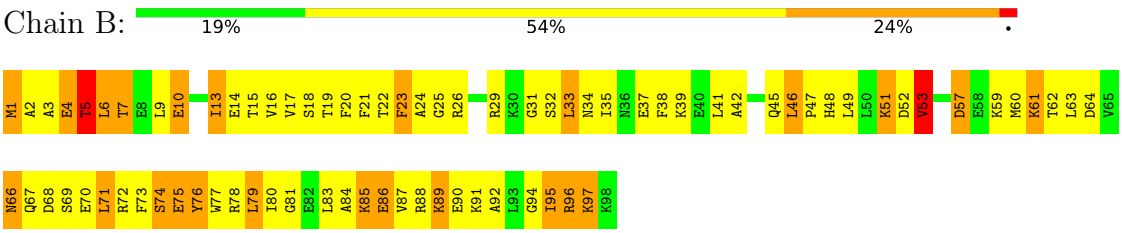


4.2.9 Score per residue for model 9

• Molecule 1: S100 calcium-binding protein A13

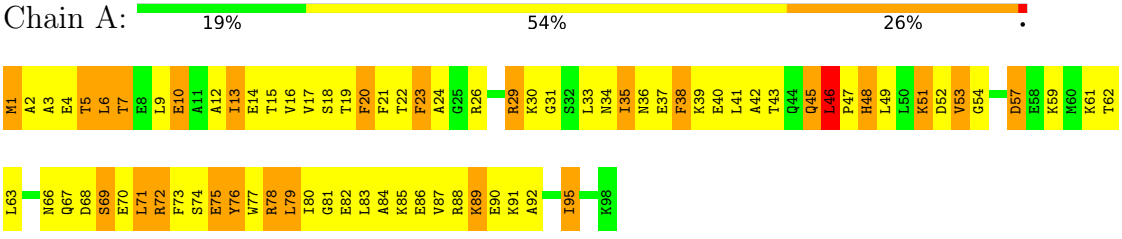


• Molecule 1: S100 calcium-binding protein A13



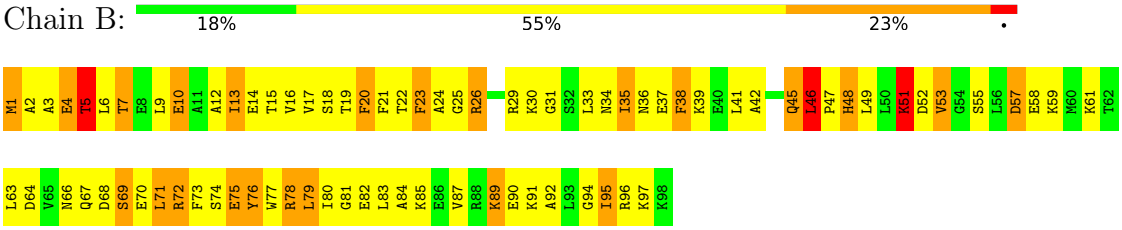
4.2.10 Score per residue for model 10

• Molecule 1: S100 calcium-binding protein A13



• Molecule 1: S100 calcium-binding protein A13

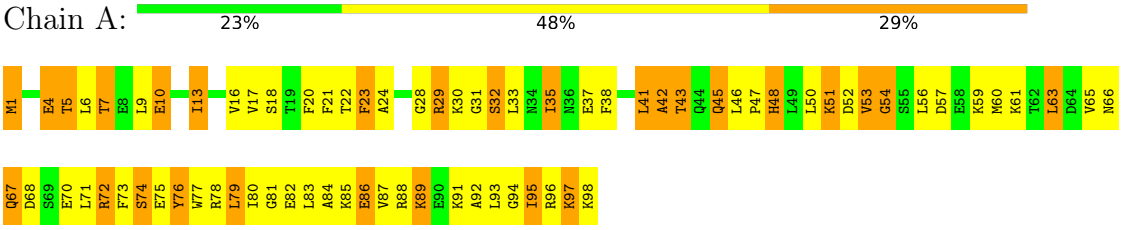
Chain B:



4.2.11 Score per residue for model 11

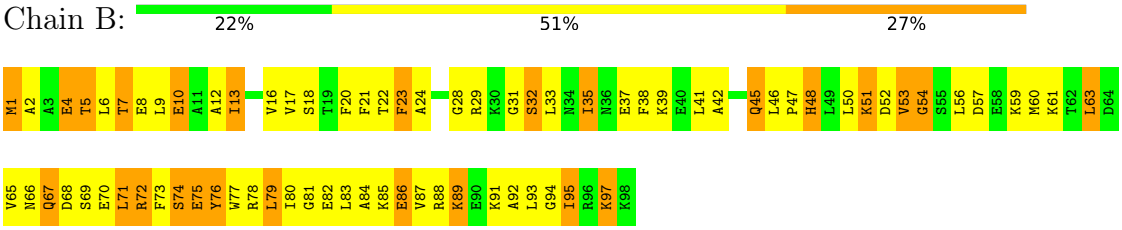
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

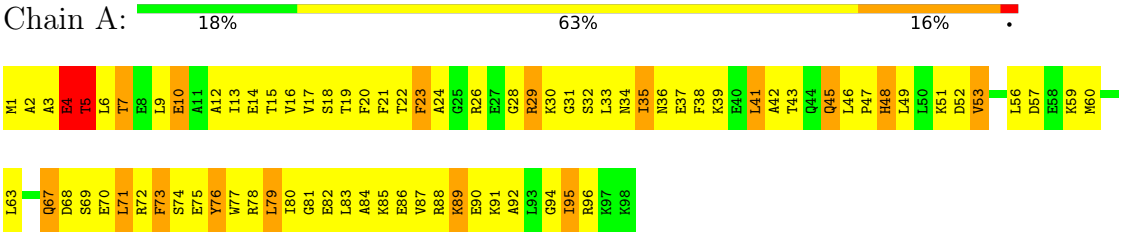
Chain B:



4.2.12 Score per residue for model 12

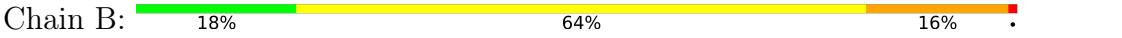
• Molecule 1: S100 calcium-binding protein A13

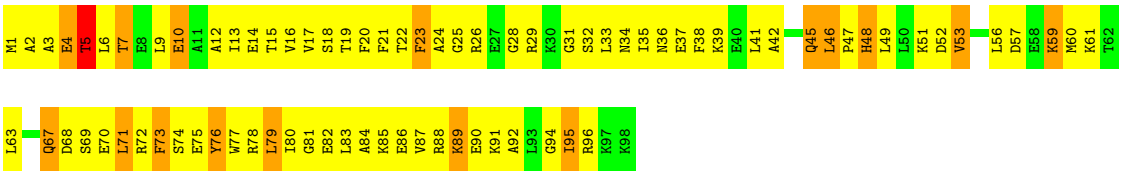
Chain A:



• Molecule 1: S100 calcium-binding protein A13

Chain B:

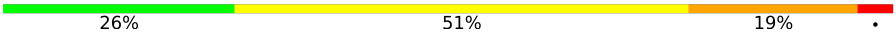


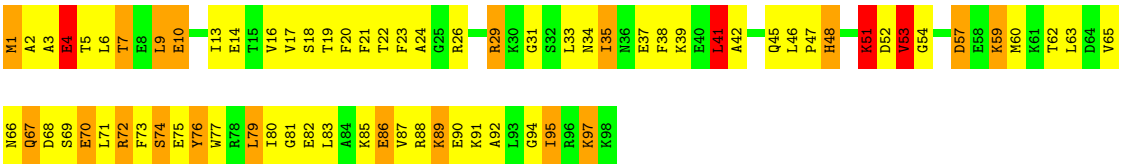


4.2.13 Score per residue for model 13

• Molecule 1: S100 calcium-binding protein A13

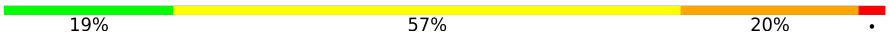
Chain A:

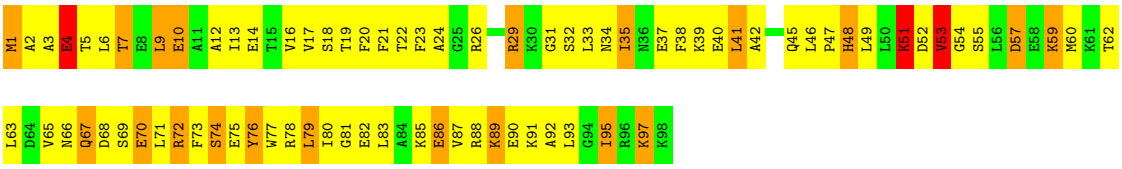




• Molecule 1: S100 calcium-binding protein A13

Chain B:

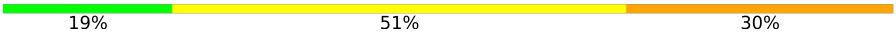


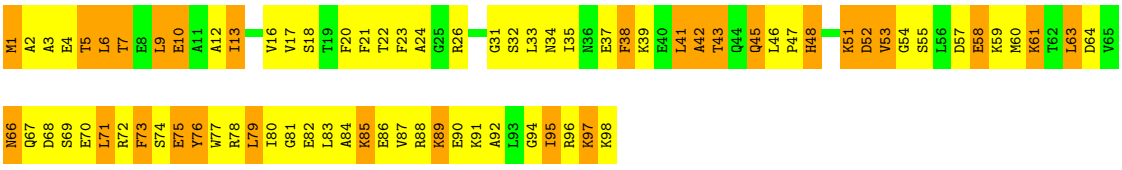


4.2.14 Score per residue for model 14

• Molecule 1: S100 calcium-binding protein A13

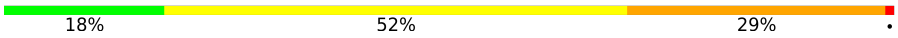
Chain A:

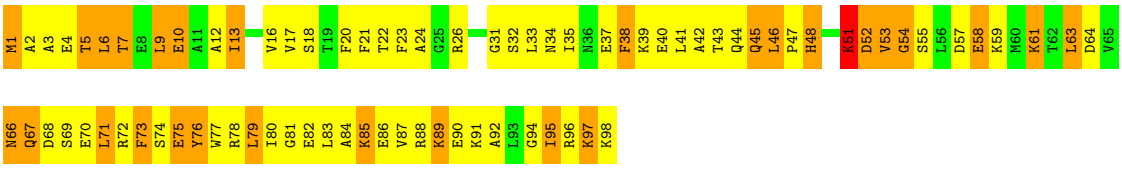




• Molecule 1: S100 calcium-binding protein A13

Chain B:

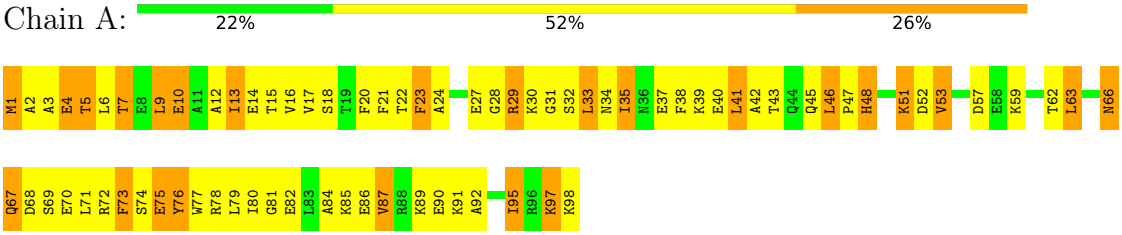




4.2.15 Score per residue for model 15

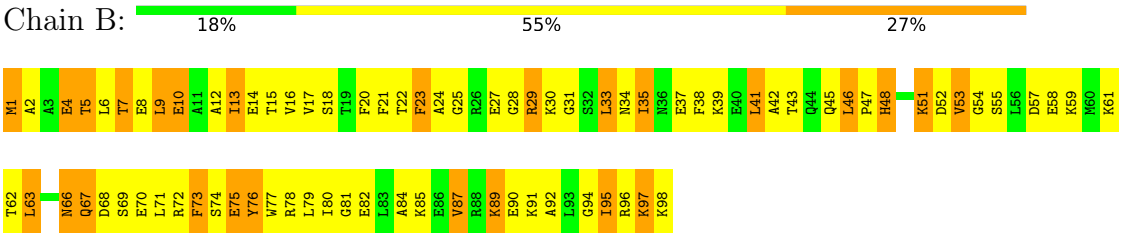
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

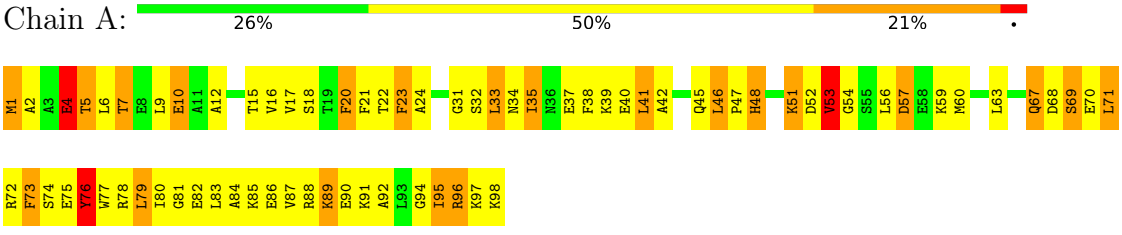
Chain B:



4.2.16 Score per residue for model 16

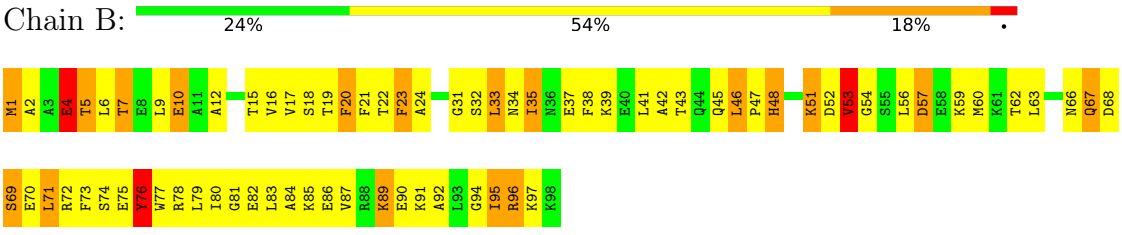
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

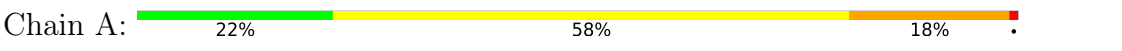
Chain B:

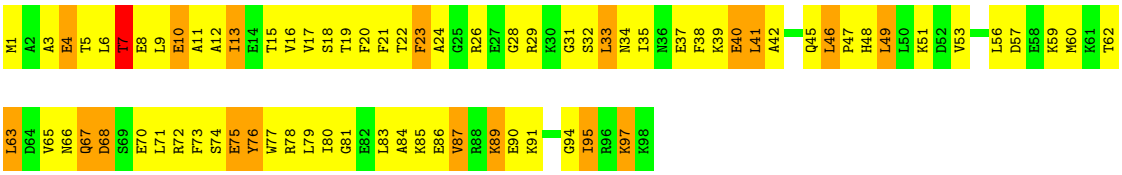


4.2.17 Score per residue for model 17

• Molecule 1: S100 calcium-binding protein A13

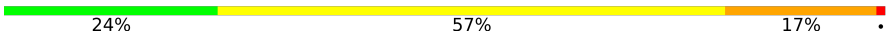
Chain A:

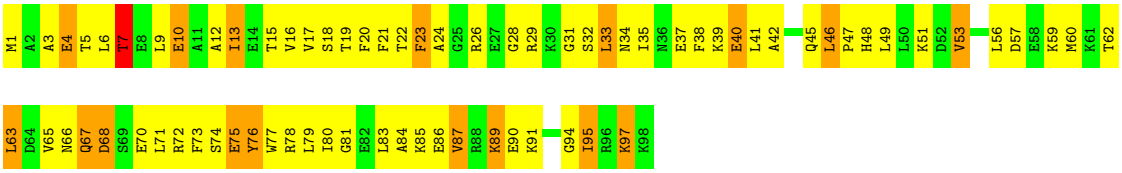




• Molecule 1: S100 calcium-binding protein A13

Chain B:

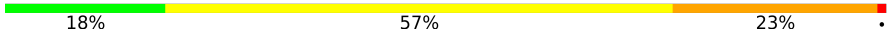


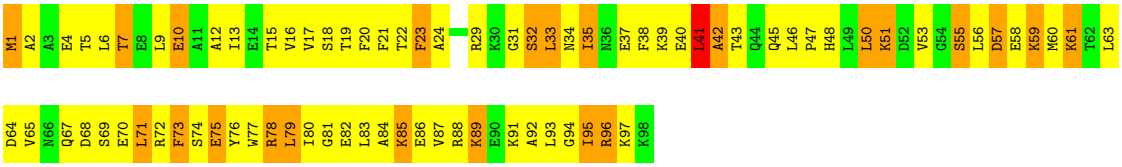


4.2.18 Score per residue for model 18

• Molecule 1: S100 calcium-binding protein A13

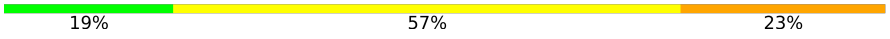
Chain A:





• Molecule 1: S100 calcium-binding protein A13

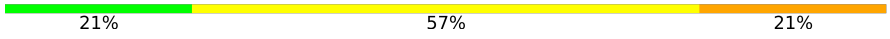
Chain B:



4.2.19 Score per residue for model 19

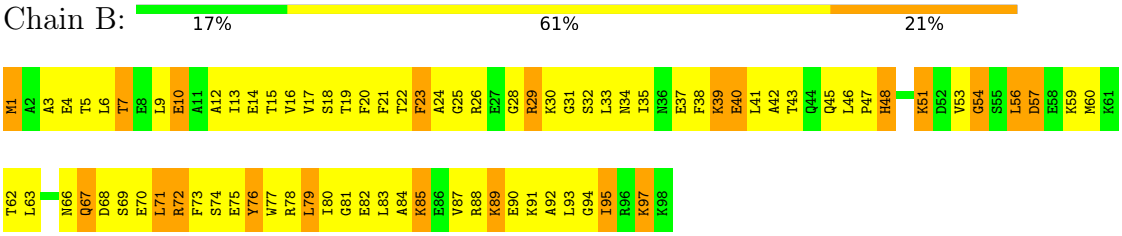
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

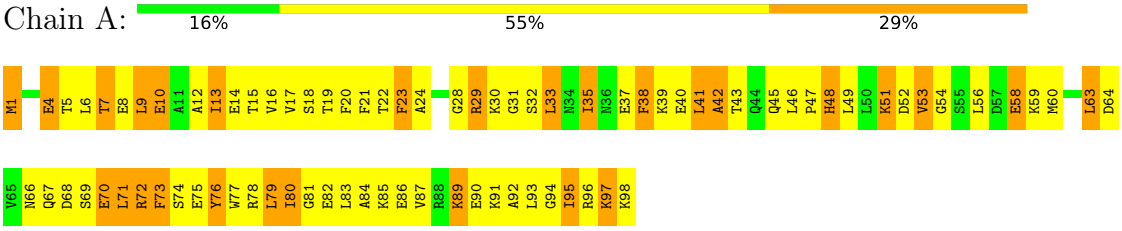
Chain B:



4.2.20 Score per residue for model 20

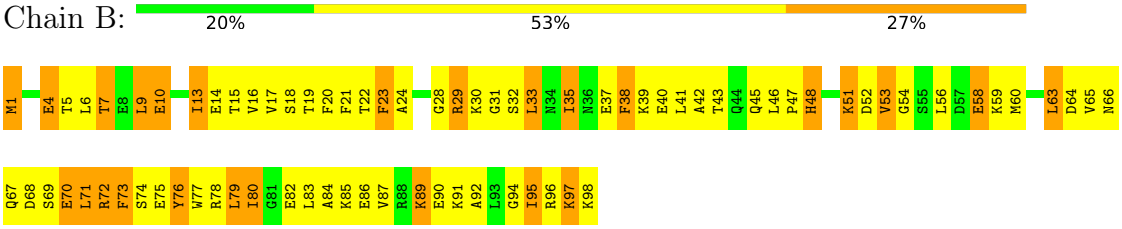
• Molecule 1: S100 calcium-binding protein A13

Chain A:



• Molecule 1: S100 calcium-binding protein A13

Chain B:



5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
CNS	structure solution	1.1
CNS	refinement	1.1

No chemical shift data was provided.

6 Model quality

6.1 Standard geometry

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	785	807	806	201±13
1	B	785	807	806	199±14
All	All	31400	32280	32240	6543

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 103.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:9:LEU:HD22	1:B:16:VAL:HG23	1.10	1.18	8	18
1:A:16:VAL:HG23	1:B:9:LEU:HD22	1.07	1.16	11	18
1:A:76:TYR:CD1	1:A:79:LEU:HD11	1.04	1.87	13	16
1:B:76:TYR:CD1	1:B:79:LEU:HD11	1.03	1.88	13	16
1:A:23:PHE:CD2	1:A:33:LEU:HD11	1.01	1.91	12	13
1:B:23:PHE:CD2	1:B:33:LEU:HD11	1.00	1.90	11	12
1:B:21:PHE:CE2	1:B:79:LEU:HD13	0.99	1.93	13	5
1:A:38:PHE:CE1	1:A:41:LEU:HD12	0.97	1.94	3	16
1:A:20:PHE:CZ	1:A:41:LEU:HD11	0.97	1.93	2	16
1:A:21:PHE:CE2	1:A:79:LEU:HD13	0.97	1.95	13	5
1:A:41:LEU:HD13	1:B:7:THR:HG21	0.96	1.37	16	6
1:B:20:PHE:CE2	1:B:41:LEU:HD11	0.96	1.95	3	7
1:B:38:PHE:CE1	1:B:41:LEU:HD12	0.96	1.95	3	17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:20:PHE:CE2	1:A:41:LEU:HD11	0.96	1.95	3	7
1:B:21:PHE:CE2	1:B:79:LEU:HD23	0.96	1.95	15	1
1:B:20:PHE:CZ	1:B:41:LEU:HD11	0.96	1.95	2	16
1:A:21:PHE:CE2	1:A:79:LEU:HD22	0.95	1.95	1	14
1:B:71:LEU:HD12	1:B:76:TYR:CG	0.94	1.97	13	11
1:B:20:PHE:CE1	1:B:41:LEU:HD11	0.94	1.97	11	13
1:A:21:PHE:CE2	1:A:79:LEU:HD23	0.94	1.95	15	2
1:B:21:PHE:CE2	1:B:79:LEU:HD22	0.94	1.96	1	14
1:B:5:THR:HG22	1:B:6:LEU:HD12	0.93	1.40	3	11
1:A:20:PHE:CE1	1:A:41:LEU:HD11	0.92	1.98	11	13
1:A:21:PHE:CZ	1:A:79:LEU:HD22	0.92	1.99	2	4
1:B:21:PHE:CZ	1:B:79:LEU:HD22	0.92	1.99	2	4
1:A:7:THR:HG21	1:B:41:LEU:HD13	0.92	1.39	16	10
1:A:5:THR:HG22	1:A:6:LEU:HD12	0.92	1.39	3	11
1:A:87:VAL:HG13	1:B:79:LEU:HD12	0.91	1.40	19	8
1:A:6:LEU:HD21	1:B:90:GLU:CG	0.91	1.95	12	10
1:A:79:LEU:HD12	1:B:87:VAL:HG13	0.91	1.42	19	8
1:B:20:PHE:CE1	1:B:41:LEU:HD21	0.91	2.01	12	8
1:A:16:VAL:HG21	1:B:9:LEU:HD23	0.90	1.43	20	1
1:B:35:ILE:CG1	1:B:63:LEU:HD23	0.90	1.96	5	5
1:A:71:LEU:HD12	1:A:76:TYR:CG	0.90	2.01	13	11
1:A:9:LEU:HD23	1:B:16:VAL:HG21	0.90	1.41	20	1
1:B:71:LEU:HD12	1:B:76:TYR:CD2	0.90	2.01	17	11
1:A:90:GLU:CG	1:B:6:LEU:HD21	0.90	1.96	12	8
1:A:16:VAL:CG2	1:B:9:LEU:HD22	0.89	1.97	2	15
1:A:35:ILE:CG1	1:A:63:LEU:HD23	0.89	1.96	5	5
1:B:69:SER:O	1:B:79:LEU:HD22	0.89	1.67	18	1
1:A:9:LEU:HD23	1:B:16:VAL:CG2	0.89	1.97	20	1
1:B:71:LEU:HD11	1:B:76:TYR:HA	0.89	1.45	4	8
1:A:38:PHE:CD1	1:A:41:LEU:HD12	0.89	2.03	14	6
1:B:38:PHE:CD1	1:B:41:LEU:HD12	0.88	2.04	14	6
1:A:9:LEU:CD2	1:B:16:VAL:HG23	0.88	1.98	2	13
1:A:71:LEU:HD12	1:A:76:TYR:CD2	0.88	2.03	17	11
1:A:9:LEU:HD22	1:B:16:VAL:CG2	0.88	1.97	2	15
1:A:69:SER:O	1:A:79:LEU:HD22	0.88	1.69	18	1
1:A:71:LEU:HD11	1:A:76:TYR:HA	0.87	1.46	4	8
1:A:16:VAL:CG2	1:B:9:LEU:HD23	0.87	1.99	20	1
1:B:35:ILE:HG21	1:B:63:LEU:O	0.87	1.70	5	8
1:A:45:GLN:NE2	1:B:7:THR:HG23	0.87	1.84	17	10
1:B:24:ALA:N	1:B:33:LEU:HD12	0.86	1.85	2	12
1:A:35:ILE:HG21	1:A:63:LEU:O	0.86	1.70	5	8

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:16:VAL:HG23	1:B:9:LEU:CD2	0.86	1.98	2	14
1:A:80:ILE:CG1	1:B:84:ALA:HB1	0.86	1.99	18	13
1:A:84:ALA:HB1	1:B:80:ILE:CG1	0.86	2.00	18	13
1:A:7:THR:HG23	1:B:45:GLN:NE2	0.85	1.86	15	11
1:A:71:LEU:HD11	1:A:73:PHE:O	0.85	1.70	12	11
1:A:5:THR:HG21	1:B:48:HIS:CG	0.85	2.06	9	2
1:A:24:ALA:N	1:A:33:LEU:HD12	0.85	1.85	2	12
1:B:71:LEU:HD11	1:B:73:PHE:O	0.85	1.70	12	11
1:B:69:SER:O	1:B:79:LEU:HD23	0.84	1.72	14	16
1:B:71:LEU:HD13	1:B:71:LEU:N	0.84	1.86	8	8
1:A:23:PHE:CE2	1:A:33:LEU:HD11	0.84	2.06	11	13
1:A:71:LEU:N	1:A:71:LEU:HD13	0.84	1.88	8	8
1:A:69:SER:O	1:A:79:LEU:HD23	0.84	1.73	3	15
1:A:20:PHE:CE1	1:A:41:LEU:HD21	0.83	2.08	12	9
1:A:90:GLU:HG2	1:B:6:LEU:HD21	0.83	1.50	12	7
1:A:71:LEU:HD21	1:A:76:TYR:CD1	0.83	2.08	14	8
1:A:41:LEU:HD13	1:B:7:THR:HG22	0.83	1.50	6	4
1:B:59:LYS:O	1:B:63:LEU:HD12	0.83	1.73	5	11
1:A:48:HIS:CG	1:B:5:THR:HG21	0.83	2.09	9	2
1:A:1:MET:HG3	1:B:42:ALA:HB3	0.82	1.51	10	10
1:A:23:PHE:CZ	1:A:33:LEU:HD21	0.82	2.08	2	4
1:A:59:LYS:O	1:A:63:LEU:HD12	0.82	1.75	8	10
1:A:41:LEU:HD13	1:B:7:THR:CG2	0.82	2.04	6	8
1:A:7:THR:CG2	1:B:41:LEU:HD13	0.82	2.04	6	7
1:A:80:ILE:HG12	1:B:84:ALA:HB1	0.82	1.50	17	9
1:A:35:ILE:HG23	1:A:67:GLN:HA	0.81	1.52	14	5
1:B:23:PHE:CE2	1:B:33:LEU:HD11	0.81	2.09	11	11
1:B:16:VAL:HG22	1:B:21:PHE:CE2	0.81	2.11	2	14
1:A:79:LEU:HB2	1:B:87:VAL:HG11	0.81	1.52	16	9
1:A:6:LEU:HD23	1:A:10:GLU:OE2	0.81	1.76	17	1
1:B:35:ILE:HG23	1:B:67:GLN:HA	0.81	1.51	14	6
1:B:6:LEU:HD23	1:B:10:GLU:OE2	0.81	1.75	17	1
1:A:24:ALA:HB2	1:A:33:LEU:CD2	0.81	2.05	20	1
1:B:24:ALA:HB2	1:B:33:LEU:CD2	0.81	2.06	20	1
1:A:42:ALA:HB3	1:B:1:MET:HG3	0.80	1.53	9	13
1:B:71:LEU:HD21	1:B:76:TYR:CD1	0.80	2.10	14	8
1:A:4:GLU:OE2	1:B:42:ALA:HB1	0.80	1.76	9	1
1:B:24:ALA:HA	1:B:33:LEU:HD12	0.80	1.54	18	2
1:A:87:VAL:HG11	1:B:79:LEU:HB2	0.80	1.54	4	10
1:A:24:ALA:CA	1:A:33:LEU:HD12	0.79	2.07	18	2
1:A:71:LEU:HD12	1:A:76:TYR:CD1	0.79	2.12	13	4

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:23:PHE:CE2	1:B:33:LEU:HD21	0.79	2.12	1	8
1:A:89:LYS:CE	1:B:6:LEU:HD11	0.79	2.08	19	1
1:A:76:TYR:HA	1:A:79:LEU:HD13	0.79	1.52	15	2
1:B:76:TYR:HA	1:B:79:LEU:HD13	0.79	1.53	15	2
1:A:39:LYS:HD3	1:A:63:LEU:HD11	0.79	1.52	20	1
1:A:84:ALA:HB1	1:B:80:ILE:HG12	0.79	1.54	17	10
1:B:24:ALA:CA	1:B:33:LEU:HD12	0.78	2.08	18	2
1:A:6:LEU:HD11	1:B:89:LYS:CE	0.78	2.08	19	1
1:A:76:TYR:O	1:B:87:VAL:HG12	0.78	1.79	18	3
1:B:20:PHE:CE2	1:B:41:LEU:HD21	0.78	2.14	19	1
1:A:23:PHE:CD2	1:A:33:LEU:HD12	0.78	2.13	20	5
1:A:23:PHE:CE2	1:A:33:LEU:HD21	0.77	2.14	1	8
1:A:24:ALA:HA	1:A:33:LEU:HD12	0.77	1.54	18	2
1:A:33:LEU:O	1:A:33:LEU:HD23	0.77	1.80	15	2
1:B:33:LEU:HD23	1:B:33:LEU:O	0.76	1.81	15	3
1:A:42:ALA:HB1	1:B:4:GLU:OE2	0.76	1.79	9	1
1:A:20:PHE:CE2	1:A:41:LEU:HD21	0.76	2.15	19	1
1:B:24:ALA:HB2	1:B:70:GLU:CD	0.76	2.01	16	6
1:A:76:TYR:CE1	1:A:79:LEU:HD11	0.76	2.15	4	10
1:A:24:ALA:HB2	1:A:70:GLU:CD	0.76	2.01	16	6
1:A:16:VAL:HG22	1:A:21:PHE:CE2	0.76	2.15	2	13
1:B:20:PHE:CD1	1:B:41:LEU:HD21	0.76	2.15	12	11
1:B:23:PHE:CZ	1:B:33:LEU:HD21	0.76	2.15	2	4
1:A:20:PHE:CD1	1:A:41:LEU:HD21	0.76	2.15	12	12
1:A:85:LYS:HG2	1:B:3:ALA:HB1	0.76	1.57	3	3
1:A:33:LEU:HD22	1:A:70:GLU:N	0.75	1.96	15	4
1:A:90:GLU:HG3	1:B:6:LEU:HD21	0.75	1.57	16	3
1:A:38:PHE:CZ	1:A:41:LEU:HD12	0.75	2.16	3	13
1:B:39:LYS:HD3	1:B:63:LEU:HD11	0.75	1.54	20	1
1:B:38:PHE:CZ	1:B:41:LEU:HD12	0.75	2.17	13	12
1:B:16:VAL:HG21	1:B:83:LEU:HG	0.75	1.58	2	12
1:B:23:PHE:CD2	1:B:33:LEU:HD12	0.75	2.16	20	5
1:B:35:ILE:HD12	1:B:67:GLN:HA	0.75	1.58	6	3
1:B:33:LEU:HD22	1:B:70:GLU:N	0.74	1.97	15	4
1:A:7:THR:HG22	1:B:41:LEU:HD13	0.74	1.58	6	2
1:A:6:LEU:HD13	1:B:90:GLU:CD	0.74	2.03	2	1
1:B:24:ALA:HB2	1:B:33:LEU:HD22	0.74	1.60	20	1
1:B:71:LEU:HD12	1:B:76:TYR:CD1	0.74	2.17	13	4
1:A:16:VAL:HG21	1:A:83:LEU:HG	0.74	1.59	2	12
1:A:87:VAL:CG1	1:B:79:LEU:HD12	0.74	2.13	19	8
1:A:71:LEU:HD21	1:A:76:TYR:CG	0.73	2.17	2	8

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:71:LEU:HD21	1:B:76:TYR:CG	0.73	2.17	2	8
1:A:24:ALA:HB2	1:A:33:LEU:HD22	0.73	1.58	20	1
1:B:35:ILE:HD13	1:B:63:LEU:HD23	0.73	1.61	7	4
1:A:33:LEU:HD13	1:A:70:GLU:OE1	0.73	1.84	2	1
1:A:6:LEU:HD21	1:B:90:GLU:HG2	0.73	1.60	12	5
1:B:33:LEU:HD13	1:B:70:GLU:OE1	0.73	1.84	2	1
1:B:35:ILE:N	1:B:35:ILE:HD13	0.73	1.99	5	5
1:B:71:LEU:HD11	1:B:73:PHE:C	0.72	2.05	15	11
1:A:95:ILE:HG23	1:B:74:SER:OG	0.72	1.84	18	2
1:A:7:THR:CG2	1:B:41:LEU:HD22	0.72	2.14	1	3
1:A:33:LEU:HD23	1:A:67:GLN:O	0.72	1.85	12	2
1:B:71:LEU:HD21	1:B:76:TYR:CD2	0.72	2.20	18	1
1:A:6:LEU:HD23	1:A:10:GLU:HB3	0.72	1.61	4	4
1:A:35:ILE:HD12	1:A:67:GLN:HA	0.72	1.59	6	3
1:B:33:LEU:HD23	1:B:67:GLN:O	0.71	1.85	12	2
1:A:16:VAL:HG23	1:B:9:LEU:HB3	0.71	1.59	14	3
1:A:74:SER:OG	1:B:95:ILE:HG23	0.71	1.85	18	2
1:A:35:ILE:HD13	1:A:35:ILE:N	0.71	2.00	5	5
1:A:79:LEU:N	1:A:79:LEU:HD23	0.71	2.00	18	1
1:B:79:LEU:HD23	1:B:79:LEU:N	0.71	2.00	18	1
1:A:35:ILE:HD13	1:A:63:LEU:HD23	0.71	1.61	7	5
1:A:76:TYR:CD1	1:A:79:LEU:HD12	0.71	2.20	2	1
1:B:76:TYR:CE1	1:B:79:LEU:HD11	0.71	2.21	4	7
1:A:23:PHE:CE2	1:A:41:LEU:HD21	0.71	2.20	14	2
1:B:6:LEU:HD23	1:B:10:GLU:HB3	0.70	1.60	4	4
1:B:76:TYR:CD1	1:B:79:LEU:HD12	0.70	2.21	2	1
1:A:16:VAL:HG21	1:A:83:LEU:CD1	0.70	2.15	17	1
1:A:3:ALA:HB1	1:B:85:LYS:HG2	0.70	1.61	3	2
1:A:6:LEU:HD12	1:B:89:LYS:HD2	0.70	1.62	17	2
1:B:15:THR:O	1:B:19:THR:HG23	0.70	1.87	9	10
1:B:6:LEU:HD12	1:B:6:LEU:O	0.70	1.87	9	1
1:A:21:PHE:CD2	1:A:79:LEU:HD22	0.70	2.22	14	10
1:A:24:ALA:N	1:A:33:LEU:HD22	0.70	2.01	3	2
1:B:24:ALA:N	1:B:33:LEU:HD22	0.70	2.02	3	2
1:A:87:VAL:HG12	1:B:76:TYR:O	0.70	1.86	18	2
1:A:84:ALA:HA	1:A:87:VAL:HG12	0.70	1.63	20	1
1:A:6:LEU:HD12	1:A:6:LEU:O	0.70	1.87	9	1
1:A:15:THR:O	1:A:19:THR:HG23	0.70	1.87	9	8
1:B:10:GLU:O	1:B:13:ILE:HG22	0.70	1.87	9	15
1:A:84:ALA:HB1	1:B:80:ILE:CD1	0.70	2.16	19	2
1:A:9:LEU:HB3	1:B:16:VAL:HG23	0.70	1.61	14	3

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:46:LEU:HD12	1:A:47:PRO:CD	0.70	2.17	20	1
1:B:35:ILE:HG13	1:B:63:LEU:HD23	0.69	1.63	5	2
1:A:71:LEU:HD21	1:A:76:TYR:CD2	0.69	2.21	18	1
1:A:71:LEU:HD11	1:A:73:PHE:C	0.69	2.06	15	11
1:A:87:VAL:CG2	1:B:13:ILE:HD11	0.69	2.16	19	1
1:B:20:PHE:CZ	1:B:41:LEU:HD21	0.69	2.22	19	5
1:A:33:LEU:HD22	1:A:70:GLU:HB3	0.69	1.64	15	11
1:A:71:LEU:HD13	1:A:79:LEU:HD21	0.69	1.64	20	1
1:A:71:LEU:HG	1:A:76:TYR:N	0.69	2.03	17	19
1:A:71:LEU:HG	1:A:75:GLU:N	0.69	2.03	15	11
1:A:24:ALA:HA	1:A:33:LEU:HD13	0.69	1.65	14	2
1:A:5:THR:CG2	1:A:6:LEU:HD12	0.69	2.17	8	7
1:A:45:GLN:HE21	1:B:7:THR:HG23	0.69	1.47	10	3
1:B:35:ILE:HG21	1:B:63:LEU:HA	0.68	1.65	7	8
1:A:2:ALA:O	1:B:42:ALA:HB2	0.68	1.89	13	6
1:A:92:ALA:O	1:A:95:ILE:HG22	0.68	1.88	15	4
1:A:90:GLU:CD	1:B:6:LEU:HD13	0.68	2.08	2	1
1:A:23:PHE:HB3	1:A:33:LEU:HD23	0.68	1.63	13	1
1:A:39:LYS:CD	1:A:63:LEU:HD11	0.68	2.17	20	3
1:B:39:LYS:CD	1:B:63:LEU:HD11	0.68	2.18	20	3
1:A:10:GLU:O	1:A:13:ILE:HG22	0.68	1.88	9	15
1:A:23:PHE:CD2	1:A:33:LEU:HD21	0.68	2.24	3	1
1:B:33:LEU:HD22	1:B:70:GLU:HB3	0.68	1.64	15	11
1:A:6:LEU:HD11	1:B:89:LYS:HE2	0.68	1.64	5	2
1:A:35:ILE:HG21	1:A:63:LEU:HA	0.68	1.66	1	6
1:A:35:ILE:HG13	1:A:63:LEU:HD23	0.68	1.63	5	2
1:A:5:THR:HG21	1:B:48:HIS:ND1	0.68	2.02	9	1
1:A:9:LEU:N	1:A:9:LEU:HD23	0.67	2.04	13	10
1:B:23:PHE:CE2	1:B:41:LEU:HD21	0.67	2.24	14	2
1:B:16:VAL:HG21	1:B:83:LEU:CD1	0.67	2.20	17	1
1:A:41:LEU:HD22	1:B:7:THR:CG2	0.67	2.20	12	3
1:A:71:LEU:CD2	1:A:73:PHE:CD1	0.67	2.78	5	11
1:B:71:LEU:HG	1:B:75:GLU:N	0.67	2.04	15	10
1:A:95:ILE:HG23	1:B:74:SER:CB	0.67	2.19	18	6
1:A:71:LEU:C	1:A:71:LEU:HD13	0.66	2.10	12	11
1:A:74:SER:CB	1:B:95:ILE:HG23	0.66	2.20	18	6
1:A:90:GLU:HG3	1:B:6:LEU:HD23	0.66	1.66	7	2
1:A:33:LEU:HD13	1:A:70:GLU:HB3	0.66	1.66	12	16
1:A:89:LYS:HD2	1:B:6:LEU:HD12	0.66	1.65	17	2
1:B:71:LEU:CD2	1:B:73:PHE:CD1	0.66	2.78	5	11
1:B:23:PHE:CD2	1:B:33:LEU:HD21	0.66	2.25	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:LEU:HD23	1:B:90:GLU:HG3	0.66	1.65	7	2
1:B:9:LEU:HD23	1:B:9:LEU:N	0.66	2.04	13	13
1:A:79:LEU:HD12	1:B:87:VAL:CG1	0.66	2.20	13	8
1:B:23:PHE:HB3	1:B:33:LEU:HD23	0.66	1.66	13	1
1:A:71:LEU:HD12	1:A:79:LEU:HD21	0.66	1.67	18	1
1:A:71:LEU:HD13	1:A:71:LEU:N	0.66	2.04	20	1
1:A:35:ILE:HG22	1:A:38:PHE:CD2	0.66	2.26	14	2
1:A:23:PHE:C	1:A:33:LEU:HD22	0.66	2.11	14	1
1:A:5:THR:HG23	1:A:6:LEU:N	0.66	2.06	14	1
1:B:46:LEU:HD12	1:B:47:PRO:CD	0.66	2.21	20	1
1:B:5:THR:HG23	1:B:6:LEU:N	0.66	2.05	14	1
1:A:48:HIS:CD2	1:B:6:LEU:HD11	0.66	2.26	9	1
1:B:35:ILE:HG22	1:B:38:PHE:CD2	0.66	2.26	14	2
1:A:80:ILE:HD11	1:B:84:ALA:HB1	0.66	1.69	19	1
1:A:80:ILE:CD1	1:B:84:ALA:HB1	0.65	2.20	19	2
1:B:6:LEU:HD13	1:B:10:GLU:OE1	0.65	1.91	9	1
1:B:23:PHE:C	1:B:33:LEU:HD22	0.65	2.12	14	1
1:A:52:ASP:O	1:A:53:VAL:HG12	0.65	1.92	5	8
1:A:33:LEU:HD23	1:A:33:LEU:C	0.65	2.12	15	2
1:A:7:THR:HG23	1:B:45:GLN:HE21	0.65	1.52	10	3
1:B:71:LEU:HG	1:B:76:TYR:N	0.65	2.07	12	18
1:A:89:LYS:CD	1:B:5:THR:HG22	0.65	2.22	10	3
1:B:24:ALA:HA	1:B:33:LEU:HD13	0.65	1.68	14	2
1:A:6:LEU:HD21	1:B:90:GLU:HG3	0.65	1.68	1	6
1:B:52:ASP:O	1:B:53:VAL:HG12	0.65	1.92	5	8
1:B:69:SER:C	1:B:79:LEU:HD22	0.65	2.11	18	1
1:B:71:LEU:HD13	1:B:71:LEU:C	0.65	2.12	12	11
1:B:42:ALA:HB3	1:B:59:LYS:HG2	0.65	1.67	16	2
1:A:89:LYS:HE2	1:B:6:LEU:HD11	0.64	1.68	5	2
1:B:95:ILE:HG23	1:B:98:LYS:HE2	0.64	1.69	14	1
1:A:84:ALA:HB1	1:B:80:ILE:HD11	0.64	1.69	19	1
1:B:84:ALA:HA	1:B:87:VAL:HG12	0.64	1.70	20	1
1:B:21:PHE:CD2	1:B:79:LEU:HD22	0.64	2.27	14	9
1:B:33:LEU:HD23	1:B:33:LEU:C	0.64	2.12	15	6
1:B:92:ALA:O	1:B:95:ILE:HG22	0.64	1.91	15	5
1:B:71:LEU:HD11	1:B:76:TYR:CA	0.64	2.22	8	8
1:B:33:LEU:HD13	1:B:70:GLU:HB3	0.64	1.69	4	15
1:B:33:LEU:HD21	1:B:37:GLU:H	0.64	1.51	13	1
1:B:46:LEU:O	1:B:51:LYS:HG3	0.64	1.92	17	2
1:B:71:LEU:N	1:B:71:LEU:CD1	0.64	2.60	4	8
1:B:24:ALA:CA	1:B:33:LEU:HD22	0.64	2.22	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:13:ILE:HD11	1:B:86:GLU:CB	0.64	2.22	12	1
1:B:53:VAL:O	1:B:53:VAL:HG13	0.64	1.92	1	6
1:A:84:ALA:HB1	1:B:80:ILE:HG13	0.64	1.68	5	7
1:A:39:LYS:CE	1:A:63:LEU:HD11	0.64	2.23	10	3
1:A:42:ALA:HB2	1:B:2:ALA:O	0.64	1.92	13	5
1:A:58:GLU:O	1:B:2:ALA:HB2	0.64	1.93	14	2
1:B:71:LEU:HD12	1:B:79:LEU:HD21	0.64	1.70	18	1
1:B:24:ALA:HB1	1:B:72:ARG:HD3	0.64	1.69	6	5
1:A:5:THR:HG22	1:A:6:LEU:CD1	0.64	2.23	13	7
1:B:71:LEU:O	1:B:76:TYR:CE1	0.63	2.51	7	11
1:A:2:ALA:HB3	1:B:59:LYS:HE3	0.63	1.70	3	1
1:A:6:LEU:HD13	1:A:10:GLU:OE1	0.63	1.92	9	1
1:A:50:LEU:HD22	1:A:93:LEU:HD13	0.63	1.70	11	2
1:B:20:PHE:CZ	1:B:23:PHE:CE2	0.63	2.86	3	3
1:B:71:LEU:HD13	1:B:79:LEU:HD21	0.63	1.68	20	1
1:A:83:LEU:HD13	1:B:83:LEU:HD22	0.63	1.70	18	2
1:A:48:HIS:ND1	1:B:5:THR:HG21	0.63	2.08	9	1
1:A:24:ALA:CA	1:A:33:LEU:HD22	0.63	2.22	3	1
1:B:5:THR:CG2	1:B:6:LEU:HD12	0.63	2.24	8	7
1:A:7:THR:HG23	1:B:45:GLN:CD	0.63	2.14	16	2
1:A:35:ILE:HD12	1:A:35:ILE:H	0.63	1.53	13	2
1:A:23:PHE:CZ	1:A:41:LEU:HD21	0.63	2.28	14	2
1:A:13:ILE:O	1:A:17:VAL:HG12	0.63	1.94	8	17
1:A:71:LEU:N	1:A:71:LEU:CD1	0.63	2.61	2	8
1:A:59:LYS:HE3	1:B:2:ALA:HB3	0.63	1.69	3	1
1:A:85:LYS:HD2	1:B:3:ALA:HB3	0.63	1.71	10	1
1:A:2:ALA:HB2	1:B:58:GLU:O	0.63	1.94	14	2
1:B:71:LEU:HD11	1:B:76:TYR:CG	0.63	2.29	18	1
1:A:20:PHE:CZ	1:A:41:LEU:HD21	0.62	2.29	19	5
1:A:41:LEU:HD22	1:B:7:THR:HG22	0.62	1.71	1	3
1:A:71:LEU:HD22	1:A:72:ARG:H	0.62	1.52	11	10
1:B:16:VAL:HG22	1:B:21:PHE:CZ	0.62	2.30	12	8
1:A:20:PHE:CZ	1:A:23:PHE:CZ	0.62	2.87	18	2
1:A:95:ILE:HG23	1:A:98:LYS:HE2	0.62	1.71	14	1
1:B:13:ILE:O	1:B:17:VAL:HG12	0.62	1.94	19	17
1:B:21:PHE:CE1	1:B:79:LEU:HD22	0.62	2.29	2	2
1:A:80:ILE:HG13	1:B:84:ALA:HB1	0.62	1.69	5	6
1:B:71:LEU:HD22	1:B:72:ARG:H	0.62	1.54	11	10
1:A:24:ALA:HB1	1:A:72:ARG:HD3	0.62	1.70	8	5
1:A:20:PHE:CZ	1:A:23:PHE:CE2	0.62	2.88	3	3
1:A:76:TYR:CD1	1:A:79:LEU:HD22	0.62	2.29	15	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:20:PHE:CZ	1:B:23:PHE:CZ	0.62	2.87	18	2
1:A:71:LEU:O	1:A:76:TYR:CE1	0.62	2.52	7	11
1:B:35:ILE:HD12	1:B:35:ILE:H	0.62	1.54	13	3
1:A:33:LEU:HD21	1:A:37:GLU:H	0.62	1.53	13	1
1:A:53:VAL:HG13	1:A:53:VAL:O	0.61	1.94	5	4
1:A:77:TRP:O	1:A:80:ILE:HG22	0.61	1.95	18	6
1:B:39:LYS:CE	1:B:63:LEU:HD11	0.61	2.25	10	2
1:A:3:ALA:HB3	1:B:85:LYS:HD2	0.61	1.70	10	1
1:A:42:ALA:HB3	1:A:59:LYS:HG2	0.61	1.72	16	2
1:A:50:LEU:HD11	1:A:89:LYS:CD	0.61	2.26	5	1
1:A:21:PHE:CE1	1:A:79:LEU:HD22	0.61	2.30	2	2
1:A:21:PHE:HE2	1:A:79:LEU:HD13	0.61	1.54	20	2
1:B:21:PHE:HE2	1:B:79:LEU:HD13	0.61	1.54	20	2
1:B:33:LEU:HD21	1:B:69:SER:HB3	0.61	1.73	15	1
1:A:16:VAL:HG22	1:A:21:PHE:CZ	0.61	2.31	12	6
1:A:48:HIS:CB	1:B:5:THR:HG21	0.61	2.26	3	3
1:B:5:THR:HG22	1:B:6:LEU:CD1	0.61	2.26	13	7
1:A:24:ALA:HA	1:A:33:LEU:HB2	0.61	1.73	13	3
1:A:69:SER:C	1:A:79:LEU:HD22	0.61	2.14	18	1
1:A:13:ILE:HD11	1:B:87:VAL:CG2	0.61	2.25	19	1
1:A:6:LEU:HD11	1:B:48:HIS:CD2	0.61	2.30	9	1
1:A:33:LEU:C	1:A:33:LEU:HD23	0.61	2.15	17	4
1:A:71:LEU:HD11	1:A:76:TYR:CA	0.61	2.22	4	8
1:A:83:LEU:HD22	1:B:83:LEU:HD13	0.61	1.73	18	2
1:A:71:LEU:HD22	1:A:72:ARG:N	0.61	2.11	12	11
1:A:73:PHE:C	1:B:95:ILE:HG23	0.61	2.16	19	3
1:B:50:LEU:HD22	1:B:93:LEU:HD13	0.61	1.71	11	2
1:B:6:LEU:HD23	1:B:10:GLU:CB	0.60	2.26	4	1
1:A:5:THR:HG22	1:B:89:LYS:CD	0.60	2.25	9	3
1:B:76:TYR:CD1	1:B:79:LEU:HD22	0.60	2.30	15	2
1:A:85:LYS:HE3	1:B:3:ALA:HB2	0.60	1.71	5	2
1:B:95:ILE:HG23	1:B:95:ILE:O	0.60	1.95	3	4
1:A:6:LEU:HD23	1:A:10:GLU:CB	0.60	2.26	4	1
1:B:23:PHE:CZ	1:B:41:LEU:HD21	0.60	2.31	14	2
1:A:86:GLU:CB	1:B:13:ILE:HD11	0.60	2.26	12	1
1:A:95:ILE:O	1:A:95:ILE:HG23	0.60	1.97	3	3
1:A:95:ILE:HG23	1:B:73:PHE:C	0.60	2.17	19	3
1:A:33:LEU:HD21	1:A:69:SER:HB3	0.60	1.72	15	1
1:A:9:LEU:HD21	1:B:21:PHE:CE1	0.60	2.32	19	1
1:A:21:PHE:CE1	1:B:9:LEU:HD21	0.60	2.32	19	1
1:B:71:LEU:HD22	1:B:72:ARG:N	0.60	2.12	12	11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:LEU:HD11	1:B:89:LYS:HE3	0.60	1.73	19	1
1:B:23:PHE:CD2	1:B:37:GLU:HB2	0.60	2.32	13	2
1:A:9:LEU:CB	1:B:16:VAL:HG23	0.60	2.26	14	2
1:B:39:LYS:HD3	1:B:63:LEU:HD21	0.59	1.72	8	2
1:B:71:LEU:HD21	1:B:74:SER:N	0.59	2.12	1	9
1:B:76:TYR:CD1	1:B:79:LEU:CD1	0.59	2.85	6	10
1:B:71:LEU:HD22	1:B:71:LEU:C	0.59	2.17	4	9
1:A:13:ILE:HD13	1:A:13:ILE:O	0.59	1.96	14	3
1:A:45:GLN:CD	1:B:7:THR:HG23	0.59	2.16	16	2
1:A:5:THR:HG21	1:B:89:LYS:HB3	0.59	1.72	19	1
1:A:76:TYR:CD1	1:A:79:LEU:CD1	0.59	2.83	6	9
1:A:39:LYS:HE2	1:A:63:LEU:HD11	0.59	1.73	14	3
1:A:70:GLU:HB2	1:A:79:LEU:HD21	0.59	1.73	2	1
1:B:6:LEU:HD12	1:B:10:GLU:CB	0.59	2.27	2	1
1:A:5:THR:HG23	1:B:89:LYS:HE3	0.59	1.73	8	1
1:B:24:ALA:HA	1:B:33:LEU:HB2	0.59	1.73	13	4
1:A:21:PHE:CZ	1:A:79:LEU:HD23	0.59	2.31	15	1
1:A:24:ALA:HB3	1:A:72:ARG:HD3	0.59	1.74	13	1
1:A:71:LEU:C	1:A:71:LEU:HD22	0.59	2.18	4	5
1:B:77:TRP:O	1:B:80:ILE:HG22	0.59	1.98	18	7
1:A:95:ILE:HG23	1:A:95:ILE:O	0.59	1.98	14	1
1:A:74:SER:HB3	1:B:95:ILE:HG23	0.59	1.75	6	4
1:B:13:ILE:HD13	1:B:13:ILE:O	0.59	1.97	14	5
1:A:6:LEU:HD21	1:B:90:GLU:CD	0.59	2.18	16	2
1:A:24:ALA:HB3	1:A:72:ARG:CD	0.59	2.27	13	1
1:B:24:ALA:HB3	1:B:72:ARG:CD	0.59	2.28	13	1
1:A:6:LEU:HD12	1:A:10:GLU:CB	0.59	2.28	2	1
1:A:24:ALA:HB2	1:A:70:GLU:HG2	0.59	1.74	10	5
1:A:20:PHE:HD2	1:B:9:LEU:HD21	0.58	1.58	13	6
1:A:39:LYS:HD3	1:A:63:LEU:HD21	0.58	1.73	8	2
1:A:89:LYS:CD	1:B:6:LEU:HD12	0.58	2.28	17	1
1:A:71:LEU:CD2	1:A:76:TYR:CD1	0.58	2.85	6	8
1:B:71:LEU:CD2	1:B:76:TYR:CD1	0.58	2.86	6	8
1:B:50:LEU:HD13	1:B:93:LEU:HD13	0.58	1.75	5	2
1:A:46:LEU:O	1:A:51:LYS:HG3	0.58	1.98	10	2
1:A:85:LYS:HE3	1:B:3:ALA:HB3	0.58	1.73	19	1
1:A:71:LEU:N	1:A:79:LEU:HD11	0.58	2.13	17	1
1:B:31:GLY:O	1:B:72:ARG:N	0.58	2.37	3	18
1:A:35:ILE:HG12	1:A:63:LEU:HD23	0.58	1.75	5	3
1:A:23:PHE:CG	1:A:33:LEU:HD21	0.58	2.34	3	1
1:A:48:HIS:HB3	1:B:5:THR:HG21	0.58	1.74	3	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:90:GLU:HG2	1:B:6:LEU:HD11	0.58	1.75	6	2
1:A:24:ALA:HB2	1:A:70:GLU:OE1	0.58	1.98	16	2
1:B:21:PHE:CZ	1:B:79:LEU:HD23	0.58	2.32	15	1
1:A:6:LEU:HD12	1:B:89:LYS:CD	0.58	2.28	17	1
1:A:9:LEU:HD21	1:B:20:PHE:HD2	0.58	1.59	13	6
1:B:24:ALA:HB2	1:B:70:GLU:HG2	0.58	1.74	12	5
1:B:13:ILE:HD12	1:B:83:LEU:HD21	0.58	1.75	19	1
1:B:24:ALA:HA	1:B:33:LEU:HD22	0.58	1.75	3	1
1:A:35:ILE:CD1	1:A:63:LEU:HD23	0.58	2.29	1	3
1:A:42:ALA:CB	1:A:59:LYS:HG2	0.58	2.29	9	18
1:A:89:LYS:HE3	1:B:5:THR:HG23	0.58	1.76	8	1
1:A:33:LEU:HD13	1:A:70:GLU:CB	0.58	2.28	12	12
1:B:21:PHE:N	1:B:21:PHE:CD1	0.58	2.70	13	9
1:A:33:LEU:HD23	1:A:70:GLU:HB3	0.58	1.76	14	2
1:B:50:LEU:HD11	1:B:89:LYS:CD	0.58	2.28	5	1
1:A:21:PHE:N	1:A:21:PHE:CD1	0.57	2.69	13	10
1:A:33:LEU:HD23	1:A:33:LEU:O	0.57	1.98	17	1
1:A:24:ALA:CB	1:A:33:LEU:HD22	0.57	2.29	20	1
1:B:35:ILE:HD13	1:B:35:ILE:H	0.57	1.59	11	1
1:A:79:LEU:CB	1:B:87:VAL:HG11	0.57	2.30	17	2
1:A:35:ILE:HD12	1:A:35:ILE:N	0.57	2.13	13	3
1:B:24:ALA:HB3	1:B:72:ARG:HD3	0.57	1.75	13	1
1:A:46:LEU:HD12	1:A:47:PRO:CG	0.57	2.29	20	1
1:A:20:PHE:CE1	1:A:23:PHE:CE2	0.57	2.93	18	6
1:A:59:LYS:CE	1:B:2:ALA:HB3	0.57	2.29	3	1
1:A:45:GLN:HE22	1:B:7:THR:HG23	0.57	1.59	15	3
1:B:35:ILE:HD12	1:B:35:ILE:N	0.57	2.14	13	3
1:A:23:PHE:CD2	1:A:37:GLU:HB2	0.57	2.33	13	2
1:B:63:LEU:HD23	1:B:64:ASP:N	0.57	2.14	14	2
1:A:35:ILE:CD1	1:A:63:LEU:HD21	0.57	2.29	18	1
1:A:3:ALA:HB2	1:B:85:LYS:HE3	0.57	1.75	5	2
1:A:7:THR:HG22	1:B:41:LEU:HD22	0.57	1.76	12	3
1:A:20:PHE:CD2	1:B:9:LEU:HD21	0.57	2.35	15	3
1:A:16:VAL:HG23	1:B:9:LEU:CB	0.57	2.29	14	2
1:A:3:ALA:HB3	1:B:85:LYS:HE3	0.57	1.75	19	1
1:A:71:LEU:O	1:A:71:LEU:HD22	0.57	1.99	14	4
1:A:50:LEU:HD13	1:A:93:LEU:HD13	0.57	1.74	5	2
1:B:24:ALA:HB2	1:B:70:GLU:OE1	0.57	2.00	16	2
1:B:35:ILE:HG21	1:B:63:LEU:CA	0.57	2.29	1	3
1:B:35:ILE:CD1	1:B:63:LEU:HD23	0.57	2.30	1	3
1:B:70:GLU:CG	1:B:71:LEU:N	0.57	2.67	15	8

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:71:LEU:HD11	1:A:76:TYR:CG	0.57	2.34	18	1
1:A:23:PHE:CG	1:A:37:GLU:HB2	0.56	2.35	7	15
1:A:9:LEU:HD21	1:B:20:PHE:CD2	0.56	2.35	15	3
1:A:87:VAL:HG11	1:B:79:LEU:CB	0.56	2.30	17	2
1:B:85:LYS:O	1:B:89:LYS:CE	0.56	2.53	6	9
1:B:76:TYR:HD1	1:B:79:LEU:HD12	0.56	1.60	2	1
1:A:2:ALA:HB3	1:B:59:LYS:CE	0.56	2.30	3	1
1:A:31:GLY:O	1:A:72:ARG:N	0.56	2.38	3	18
1:A:51:LYS:HA	1:B:5:THR:HG21	0.56	1.77	4	2
1:A:91:LYS:HA	1:B:76:TYR:HB2	0.56	1.78	18	18
1:B:71:LEU:HD22	1:B:71:LEU:O	0.56	1.99	14	7
1:A:5:THR:HG21	1:B:51:LYS:HA	0.56	1.76	4	1
1:A:89:LYS:HB3	1:B:5:THR:HG21	0.56	1.77	19	1
1:A:35:ILE:HG21	1:A:63:LEU:CA	0.56	2.31	1	3
1:A:89:LYS:HD2	1:B:5:THR:HG22	0.56	1.76	6	3
1:B:76:TYR:CG	1:B:79:LEU:HD11	0.56	2.35	10	5
1:A:16:VAL:HG11	1:A:83:LEU:HD11	0.56	1.75	18	3
1:A:23:PHE:CE2	1:A:33:LEU:HD12	0.56	2.34	20	1
1:B:33:LEU:HD23	1:B:70:GLU:HB3	0.56	1.77	3	2
1:B:46:LEU:HD12	1:B:47:PRO:CG	0.56	2.31	20	1
1:A:23:PHE:CD1	1:A:37:GLU:HB2	0.56	2.36	2	11
1:B:20:PHE:CE1	1:B:23:PHE:CE2	0.56	2.94	18	3
1:A:31:GLY:HA3	1:A:73:PHE:CE2	0.56	2.35	12	1
1:A:13:ILE:HD12	1:A:83:LEU:HD21	0.56	1.77	19	1
1:A:46:LEU:HD12	1:A:47:PRO:HG3	0.56	1.77	20	1
1:A:23:PHE:CZ	1:A:33:LEU:CD2	0.56	2.88	1	2
1:A:5:THR:HG22	1:A:6:LEU:N	0.56	2.15	19	10
1:A:13:ILE:O	1:A:13:ILE:HD13	0.56	2.00	9	9
1:B:23:PHE:CG	1:B:33:LEU:HD11	0.56	2.35	19	4
1:B:71:LEU:HD21	1:B:73:PHE:CD1	0.56	2.36	7	10
1:A:76:TYR:CE1	1:A:79:LEU:HD22	0.56	2.35	15	2
1:B:35:ILE:CD1	1:B:63:LEU:HD21	0.56	2.30	18	1
1:A:87:VAL:HG22	1:B:13:ILE:HD11	0.56	1.75	19	1
1:A:50:LEU:HD11	1:A:89:LYS:O	0.56	1.99	2	1
1:B:23:PHE:CG	1:B:33:LEU:HD21	0.56	2.36	3	1
1:A:35:ILE:HD13	1:A:35:ILE:H	0.56	1.60	11	1
1:A:24:ALA:HA	1:A:33:LEU:HD22	0.56	1.75	3	1
1:A:76:TYR:CG	1:A:79:LEU:HD11	0.56	2.36	8	6
1:A:21:PHE:HA	1:A:70:GLU:OE1	0.55	2.01	2	5
1:A:23:PHE:CE2	1:A:33:LEU:CD1	0.55	2.89	5	6
1:B:23:PHE:CD2	1:B:33:LEU:CD1	0.55	2.89	17	8

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:89:LYS:HD3	1:B:5:THR:HG23	0.55	1.78	20	2
1:A:5:THR:CG2	1:B:48:HIS:CD2	0.55	2.88	14	1
1:B:42:ALA:CB	1:B:59:LYS:HG2	0.55	2.31	19	18
1:A:63:LEU:HD23	1:A:64:ASP:N	0.55	2.17	18	2
1:B:56:LEU:N	1:B:56:LEU:HD22	0.55	2.17	18	1
1:A:20:PHE:CZ	1:A:41:LEU:CD1	0.55	2.88	12	7
1:A:6:LEU:HD12	1:A:10:GLU:HB3	0.55	1.79	2	1
1:A:56:LEU:N	1:A:56:LEU:HD22	0.55	2.16	18	1
1:A:20:PHE:CE1	1:A:23:PHE:CD2	0.55	2.94	12	10
1:B:23:PHE:CG	1:B:37:GLU:HB2	0.55	2.36	10	16
1:B:70:GLU:C	1:B:71:LEU:HD13	0.55	2.20	8	2
1:B:60:MET:HA	1:B:63:LEU:HD13	0.55	1.79	3	1
1:A:23:PHE:CD2	1:A:33:LEU:CD1	0.55	2.89	17	11
1:A:79:LEU:HD12	1:A:79:LEU:N	0.55	2.17	15	1
1:B:71:LEU:CD1	1:B:71:LEU:N	0.55	2.70	18	1
1:A:70:GLU:CG	1:A:71:LEU:N	0.55	2.69	15	9
1:A:49:LEU:C	1:A:49:LEU:HD23	0.55	2.21	4	2
1:B:49:LEU:C	1:B:49:LEU:HD23	0.55	2.22	4	2
1:A:95:ILE:N	1:B:73:PHE:O	0.55	2.40	10	12
1:B:33:LEU:HD13	1:B:70:GLU:CB	0.55	2.31	12	11
1:A:31:GLY:CA	1:A:73:PHE:CE2	0.55	2.90	12	1
1:B:31:GLY:HA3	1:B:73:PHE:CE2	0.55	2.36	12	1
1:B:21:PHE:HA	1:B:33:LEU:HD11	0.55	1.78	20	1
1:A:59:LYS:HA	1:B:2:ALA:HB2	0.55	1.79	12	7
1:A:33:LEU:HD22	1:A:70:GLU:H	0.55	1.61	5	4
1:A:6:LEU:HD11	1:B:90:GLU:HG2	0.55	1.76	6	2
1:A:21:PHE:CD2	1:A:79:LEU:HD23	0.55	2.36	15	1
1:A:21:PHE:HA	1:A:33:LEU:HD11	0.55	1.79	20	1
1:B:31:GLY:CA	1:B:73:PHE:CD2	0.55	2.90	12	1
1:A:23:PHE:CD2	1:A:37:GLU:CB	0.55	2.90	14	2
1:B:20:PHE:CZ	1:B:41:LEU:CD2	0.55	2.90	19	1
1:B:46:LEU:HD12	1:B:47:PRO:HG3	0.55	1.79	20	1
1:A:71:LEU:HD21	1:A:73:PHE:CD1	0.55	2.37	11	10
1:A:95:ILE:HG23	1:B:74:SER:HB3	0.54	1.79	2	4
1:A:6:LEU:HD23	1:B:90:GLU:CG	0.54	2.31	7	2
1:B:16:VAL:HG11	1:B:83:LEU:HD11	0.54	1.77	18	3
1:A:85:LYS:HZ3	1:B:7:THR:CB	0.54	2.15	1	1
1:B:70:GLU:HB2	1:B:79:LEU:HD21	0.54	1.77	2	1
1:A:33:LEU:N	1:A:33:LEU:HD23	0.54	2.17	20	1
1:B:50:LEU:HD11	1:B:89:LYS:O	0.54	2.01	2	1
1:A:87:VAL:HG11	1:B:79:LEU:HD12	0.54	1.80	13	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:76:TYR:CE1	1:A:79:LEU:CD1	0.54	2.91	18	1
1:A:53:VAL:O	1:A:53:VAL:CG1	0.54	2.56	5	4
1:A:85:LYS:O	1:A:89:LYS:CE	0.54	2.55	6	8
1:B:53:VAL:O	1:B:53:VAL:CG1	0.54	2.55	6	6
1:B:71:LEU:N	1:B:79:LEU:HD11	0.54	2.17	17	1
1:A:71:LEU:CD1	1:A:71:LEU:N	0.54	2.71	18	1
1:B:51:LYS:HG2	1:B:52:ASP:N	0.54	2.18	6	12
1:A:71:LEU:HD22	1:A:71:LEU:C	0.54	2.23	14	4
1:B:23:PHE:CE2	1:B:33:LEU:CD1	0.54	2.91	16	5
1:A:21:PHE:CE2	1:A:79:LEU:CD2	0.54	2.91	9	6
1:A:83:LEU:HD22	1:B:83:LEU:HD22	0.54	1.80	1	4
1:B:33:LEU:HB3	1:B:70:GLU:HB3	0.54	1.80	5	9
1:B:79:LEU:N	1:B:79:LEU:CD2	0.54	2.70	18	1
1:B:46:LEU:CB	1:B:47:PRO:CD	0.54	2.86	15	14
1:B:20:PHE:CZ	1:B:41:LEU:CD1	0.54	2.90	9	6
1:B:6:LEU:HD12	1:B:10:GLU:HB3	0.54	1.79	2	1
1:A:71:LEU:HD22	1:A:71:LEU:O	0.54	2.03	3	3
1:B:71:LEU:HD23	1:B:73:PHE:C	0.54	2.23	18	1
1:A:23:PHE:CG	1:A:33:LEU:HD11	0.54	2.38	18	4
1:B:95:ILE:HG21	1:B:98:LYS:HE2	0.54	1.80	20	2
1:B:33:LEU:HD22	1:B:70:GLU:H	0.54	1.62	5	3
1:B:35:ILE:N	1:B:35:ILE:CD1	0.54	2.70	5	4
1:A:46:LEU:CB	1:A:47:PRO:CD	0.53	2.86	16	14
1:A:71:LEU:HD21	1:A:74:SER:N	0.53	2.18	1	8
1:A:21:PHE:O	1:A:33:LEU:HD21	0.53	2.03	20	1
1:B:16:VAL:CG2	1:B:21:PHE:CZ	0.53	2.91	13	3
1:A:6:LEU:CD2	1:B:48:HIS:CD2	0.53	2.91	2	1
1:B:20:PHE:O	1:B:23:PHE:CD1	0.53	2.62	13	3
1:B:23:PHE:CZ	1:B:33:LEU:CD2	0.53	2.91	1	1
1:A:48:HIS:CD2	1:B:6:LEU:CD1	0.53	2.91	9	1
1:A:48:HIS:CD2	1:B:5:THR:CG2	0.53	2.91	14	1
1:A:82:GLU:O	1:B:9:LEU:HD13	0.53	2.03	14	1
1:B:71:LEU:HB3	1:B:76:TYR:CD1	0.53	2.38	12	10
1:B:39:LYS:HE2	1:B:63:LEU:HD11	0.53	1.79	14	3
1:A:20:PHE:HA	1:A:23:PHE:CE1	0.53	2.39	13	2
1:B:33:LEU:HD23	1:B:33:LEU:N	0.53	2.18	20	1
1:A:31:GLY:O	1:A:73:PHE:CD1	0.53	2.61	2	3
1:A:1:MET:HG2	1:B:39:LYS:HA	0.53	1.80	12	4
1:A:48:HIS:NE2	1:B:6:LEU:HD21	0.53	2.18	9	1
1:A:71:LEU:O	1:A:76:TYR:CZ	0.53	2.61	17	8
1:A:38:PHE:O	1:A:41:LEU:HG	0.53	2.03	15	8

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:39:LYS:HA	1:B:1:MET:HB2	0.53	1.81	10	6
1:A:48:HIS:CD2	1:B:6:LEU:HD21	0.53	2.38	2	1
1:A:83:LEU:HD22	1:B:87:VAL:CG2	0.53	2.32	17	2
1:A:86:GLU:HA	1:B:6:LEU:HD23	0.53	1.80	6	1
1:B:24:ALA:CB	1:B:33:LEU:HD22	0.53	2.31	20	1
1:B:73:PHE:CZ	1:B:75:GLU:CG	0.53	2.92	20	5
1:A:32:SER:HB3	1:A:73:PHE:CE1	0.53	2.38	12	8
1:A:71:LEU:HG	1:A:75:GLU:CB	0.53	2.33	20	8
1:B:21:PHE:CD2	1:B:79:LEU:HD23	0.53	2.37	15	1
1:A:71:LEU:HB3	1:A:76:TYR:CD1	0.53	2.37	10	10
1:A:48:HIS:CD2	1:B:6:LEU:CD2	0.53	2.91	2	1
1:A:2:ALA:HB2	1:B:59:LYS:HA	0.53	1.80	12	6
1:B:21:PHE:O	1:B:33:LEU:HD21	0.53	2.04	20	1
1:A:16:VAL:N	1:B:12:ALA:HB2	0.53	2.19	15	10
1:A:33:LEU:CB	1:A:70:GLU:CG	0.53	2.86	19	6
1:A:70:GLU:HA	1:A:79:LEU:HD21	0.53	1.81	15	2
1:B:46:LEU:CB	1:B:47:PRO:HD3	0.53	2.34	10	18
1:A:70:GLU:C	1:A:71:LEU:HD13	0.53	2.22	8	2
1:A:32:SER:CB	1:A:73:PHE:CE1	0.53	2.92	18	3
1:A:39:LYS:HA	1:B:1:MET:HG2	0.53	1.80	12	2
1:A:9:LEU:HD13	1:B:82:GLU:O	0.53	2.04	14	1
1:B:33:LEU:CD2	1:B:72:ARG:CD	0.53	2.87	20	1
1:B:33:LEU:CD1	1:B:70:GLU:HB2	0.53	2.34	20	1
1:A:20:PHE:CE1	1:A:41:LEU:CD2	0.53	2.87	12	4
1:A:41:LEU:CD1	1:B:7:THR:HG21	0.53	2.25	1	3
1:B:16:VAL:HB	1:B:83:LEU:HD21	0.53	1.81	12	3
1:A:60:MET:HA	1:A:63:LEU:HD13	0.53	1.79	3	1
1:B:89:LYS:HG3	1:B:90:GLU:N	0.53	2.19	19	4
1:B:21:PHE:CE2	1:B:79:LEU:CD2	0.53	2.91	10	6
1:B:24:ALA:CB	1:B:72:ARG:CG	0.53	2.86	13	1
1:A:87:VAL:HG23	1:B:79:LEU:HD12	0.53	1.81	20	1
1:B:31:GLY:O	1:B:73:PHE:CD1	0.52	2.62	2	3
1:B:32:SER:CB	1:B:73:PHE:CE1	0.52	2.92	18	3
1:A:33:LEU:CD1	1:A:70:GLU:HB2	0.52	2.32	20	1
1:A:16:VAL:CG2	1:A:21:PHE:CZ	0.52	2.92	13	3
1:A:20:PHE:O	1:A:23:PHE:CD1	0.52	2.62	18	4
1:A:87:VAL:CG2	1:B:83:LEU:HD22	0.52	2.34	17	2
1:B:71:LEU:C	1:B:71:LEU:CD2	0.52	2.77	4	3
1:B:48:HIS:CG	1:B:49:LEU:N	0.52	2.78	9	3
1:A:24:ALA:CB	1:A:72:ARG:CG	0.52	2.87	13	1
1:A:83:LEU:N	1:B:9:LEU:HD12	0.52	2.19	13	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:73:PHE:CZ	1:A:75:GLU:CG	0.52	2.92	20	6
1:B:23:PHE:CD1	1:B:37:GLU:HB2	0.52	2.39	11	10
1:A:85:LYS:CD	1:B:3:ALA:CB	0.52	2.88	7	1
1:A:18:SER:O	1:A:22:THR:CG2	0.52	2.58	17	20
1:B:71:LEU:O	1:B:76:TYR:CZ	0.52	2.62	17	8
1:A:71:LEU:HG	1:A:75:GLU:CA	0.52	2.35	16	7
1:A:71:LEU:C	1:A:71:LEU:CD2	0.52	2.78	4	3
1:A:67:GLN:NE2	1:A:68:ASP:CA	0.52	2.72	5	3
1:B:41:LEU:HD23	1:B:41:LEU:N	0.52	2.19	8	2
1:B:31:GLY:CA	1:B:73:PHE:CE2	0.52	2.91	12	1
1:A:33:LEU:CD2	1:A:72:ARG:CD	0.52	2.87	20	1
1:A:12:ALA:HB2	1:B:16:VAL:N	0.52	2.20	16	9
1:A:24:ALA:CB	1:A:33:LEU:HB2	0.52	2.35	4	10
1:A:71:LEU:HG	1:A:75:GLU:C	0.52	2.25	2	11
1:B:20:PHE:CE1	1:B:41:LEU:CD2	0.52	2.86	12	4
1:B:38:PHE:O	1:B:41:LEU:HG	0.52	2.04	2	15
1:A:31:GLY:CA	1:A:73:PHE:CD2	0.52	2.92	12	1
1:A:33:LEU:HB3	1:A:70:GLU:HB3	0.52	1.82	5	8
1:A:71:LEU:CB	1:A:75:GLU:HB2	0.52	2.35	6	7
1:A:6:LEU:CD1	1:B:48:HIS:CD2	0.52	2.92	9	1
1:A:7:THR:HG23	1:B:45:GLN:HG3	0.52	1.81	14	1
1:B:23:PHE:CD2	1:B:37:GLU:CB	0.52	2.92	14	1
1:A:16:VAL:HB	1:A:83:LEU:HD21	0.52	1.82	12	3
1:A:46:LEU:CB	1:A:47:PRO:HD3	0.52	2.33	10	18
1:A:21:PHE:O	1:A:70:GLU:OE2	0.52	2.27	5	8
1:A:33:LEU:HG	1:A:34:ASN:N	0.52	2.20	14	4
1:A:82:GLU:HB3	1:B:9:LEU:HD11	0.52	1.82	6	7
1:B:21:PHE:HA	1:B:70:GLU:OE1	0.52	2.05	2	5
1:A:82:GLU:C	1:B:9:LEU:HD12	0.52	2.25	3	4
1:A:24:ALA:CB	1:A:72:ARG:CD	0.52	2.88	13	1
1:A:72:ARG:CD	1:A:72:ARG:N	0.52	2.72	20	2
1:A:70:GLU:HG2	1:A:71:LEU:N	0.52	2.20	16	1
1:A:20:PHE:CZ	1:A:41:LEU:CD2	0.52	2.92	19	1
1:A:76:TYR:O	1:B:87:VAL:CG1	0.52	2.58	5	15
1:A:23:PHE:CZ	1:A:33:LEU:HG	0.52	2.40	17	3
1:A:86:GLU:HB2	1:B:13:ILE:HD11	0.52	1.81	12	1
1:B:24:ALA:CB	1:B:72:ARG:CD	0.52	2.88	13	1
1:A:20:PHE:CE2	1:A:41:LEU:CD2	0.52	2.92	19	1
1:B:45:GLN:O	1:B:51:LYS:CE	0.52	2.58	19	1
1:A:84:ALA:CA	1:A:87:VAL:HG12	0.52	2.32	20	1
1:B:24:ALA:HB2	1:B:33:LEU:HD23	0.52	1.79	20	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:73:PHE:O	1:B:95:ILE:N	0.51	2.43	10	11
1:B:18:SER:O	1:B:22:THR:CG2	0.51	2.58	18	20
1:A:21:PHE:CG	1:A:70:GLU:OE1	0.51	2.63	4	2
1:B:21:PHE:CG	1:B:70:GLU:OE1	0.51	2.63	4	2
1:B:23:PHE:CZ	1:B:33:LEU:HG	0.51	2.40	17	3
1:A:70:GLU:HA	1:A:79:LEU:HD23	0.51	1.81	19	5
1:A:42:ALA:O	1:A:46:LEU:CG	0.51	2.58	20	2
1:A:5:THR:HG23	1:B:89:LYS:HD3	0.51	1.81	20	2
1:A:1:MET:HE2	1:B:59:LYS:HE3	0.51	1.80	16	1
1:A:7:THR:HG21	1:B:41:LEU:CD1	0.51	2.34	9	3
1:A:68:ASP:O	1:A:78:ARG:CB	0.51	2.59	5	8
1:A:42:ALA:HA	1:A:45:GLN:HB2	0.51	1.82	9	3
1:A:5:THR:HG22	1:B:89:LYS:HD2	0.51	1.81	6	3
1:A:79:LEU:HD12	1:B:87:VAL:HG11	0.51	1.81	13	1
1:B:79:LEU:N	1:B:79:LEU:HD12	0.51	2.19	15	1
1:A:71:LEU:HD23	1:A:73:PHE:C	0.51	2.26	18	1
1:B:33:LEU:CB	1:B:70:GLU:CG	0.51	2.89	1	6
1:B:16:VAL:HG21	1:B:83:LEU:CG	0.51	2.35	3	4
1:B:75:GLU:OE1	1:B:77:TRP:CE2	0.51	2.64	14	4
1:B:33:LEU:HB3	1:B:70:GLU:CB	0.51	2.36	1	8
1:A:42:ALA:O	1:A:46:LEU:HG	0.51	2.06	12	20
1:A:76:TYR:HD1	1:A:79:LEU:HD12	0.51	1.60	2	1
1:B:21:PHE:O	1:B:70:GLU:OE2	0.51	2.29	5	8
1:A:5:THR:HG21	1:B:48:HIS:HB3	0.51	1.83	3	1
1:A:45:GLN:NE2	1:B:7:THR:CG2	0.51	2.74	16	6
1:A:52:ASP:O	1:A:53:VAL:HG23	0.51	2.06	14	1
1:A:1:MET:CE	1:B:43:THR:HG23	0.51	2.35	19	7
1:B:73:PHE:CZ	1:B:75:GLU:HG2	0.51	2.41	1	11
1:B:70:GLU:HG2	1:B:71:LEU:N	0.51	2.19	16	2
1:B:31:GLY:HA2	1:B:73:PHE:CD2	0.51	2.41	12	3
1:B:34:ASN:HA	1:B:67:GLN:HB2	0.51	1.81	12	2
1:A:42:ALA:CB	1:A:59:LYS:CG	0.51	2.89	16	2
1:B:72:ARG:CD	1:B:72:ARG:N	0.51	2.72	20	2
1:B:23:PHE:CE2	1:B:33:LEU:HD12	0.51	2.41	20	1
1:A:73:PHE:CZ	1:A:75:GLU:HG2	0.51	2.41	10	11
1:A:5:THR:CG2	1:B:50:LEU:HD23	0.51	2.36	2	1
1:A:17:VAL:HA	1:A:21:PHE:HB2	0.51	1.82	4	6
1:B:71:LEU:HD21	1:B:76:TYR:CA	0.51	2.36	2	1
1:B:32:SER:HB2	1:B:73:PHE:CE1	0.51	2.41	4	2
1:A:6:LEU:HD23	1:B:86:GLU:HA	0.51	1.81	6	1
1:A:41:LEU:N	1:A:41:LEU:HD23	0.51	2.21	18	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:20:PHE:O	1:B:20:PHE:CD1	0.51	2.64	14	2
1:B:20:PHE:HA	1:B:23:PHE:CE1	0.51	2.40	13	1
1:B:77:TRP:CD1	1:B:78:ARG:N	0.51	2.79	1	4
1:A:1:MET:O	1:B:38:PHE:CE1	0.51	2.64	17	18
1:B:23:PHE:CD1	1:B:70:GLU:OE1	0.51	2.63	3	1
1:A:13:ILE:HD11	1:B:86:GLU:HB2	0.51	1.80	12	1
1:A:9:LEU:CD2	1:B:20:PHE:HB3	0.51	2.35	13	3
1:A:20:PHE:O	1:A:20:PHE:CD1	0.51	2.64	14	2
1:A:33:LEU:CD2	1:A:37:GLU:CG	0.51	2.88	13	1
1:A:33:LEU:HB3	1:A:70:GLU:CB	0.51	2.36	1	8
1:B:24:ALA:CB	1:B:33:LEU:HB2	0.51	2.36	4	9
1:B:52:ASP:O	1:B:53:VAL:CG1	0.51	2.59	12	9
1:B:35:ILE:HG12	1:B:63:LEU:HD23	0.51	1.76	5	3
1:B:71:LEU:HD21	1:B:73:PHE:HD1	0.51	1.66	12	1
1:A:85:LYS:CE	1:B:3:ALA:CB	0.51	2.89	7	3
1:A:49:LEU:C	1:A:49:LEU:HD13	0.51	2.26	8	1
1:A:89:LYS:HD3	1:B:5:THR:CG2	0.51	2.36	20	4
1:B:23:PHE:HB3	1:B:33:LEU:HD21	0.51	1.82	14	1
1:A:76:TYR:HD1	1:A:79:LEU:HD13	0.51	1.66	17	1
1:A:38:PHE:CE1	1:B:1:MET:O	0.50	2.64	17	18
1:B:32:SER:HB3	1:B:73:PHE:CE1	0.50	2.41	12	8
1:A:54:GLY:CA	1:B:4:GLU:CG	0.50	2.89	8	2
1:B:41:LEU:C	1:B:45:GLN:CG	0.50	2.80	12	2
1:A:53:VAL:CG1	1:A:53:VAL:O	0.50	2.59	16	2
1:A:46:LEU:HD12	1:A:47:PRO:HD3	0.50	1.82	20	1
1:A:48:HIS:CE1	1:B:6:LEU:O	0.50	2.65	10	11
1:B:42:ALA:CB	1:B:59:LYS:HG3	0.50	2.36	18	2
1:B:71:LEU:N	1:B:71:LEU:HD13	0.50	2.21	18	1
1:B:16:VAL:CG2	1:B:21:PHE:CE2	0.50	2.92	2	1
1:B:71:LEU:CB	1:B:75:GLU:HB2	0.50	2.35	18	7
1:A:6:LEU:HD12	1:A:6:LEU:H	0.50	1.66	3	2
1:B:71:LEU:HD13	1:B:71:LEU:H	0.50	1.66	20	6
1:A:48:HIS:CG	1:A:49:LEU:N	0.50	2.79	9	3
1:B:89:LYS:CG	1:B:90:GLU:N	0.50	2.75	19	1
1:A:71:LEU:HD23	1:A:75:GLU:HB2	0.50	1.84	1	8
1:B:9:LEU:O	1:B:12:ALA:HB3	0.50	2.06	17	12
1:B:47:PRO:HA	1:B:51:LYS:HE2	0.50	1.84	11	4
1:B:71:LEU:HG	1:B:75:GLU:CB	0.50	2.36	4	8
1:A:86:GLU:HG3	1:A:87:VAL:HG23	0.50	1.82	4	1
1:B:86:GLU:HG3	1:B:87:VAL:HG23	0.50	1.82	4	1
1:A:75:GLU:OE1	1:A:77:TRP:CE2	0.50	2.64	14	4

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:LEU:HD11	1:B:89:LYS:NZ	0.50	2.22	18	1
1:A:24:ALA:HB2	1:A:33:LEU:HD23	0.50	1.79	20	1
1:A:91:LYS:HB2	1:B:77:TRP:HB3	0.50	1.84	20	1
1:A:9:LEU:O	1:A:12:ALA:HB3	0.50	2.06	17	11
1:A:71:LEU:CG	1:A:76:TYR:N	0.50	2.75	2	6
1:A:23:PHE:CD1	1:A:70:GLU:OE1	0.50	2.64	3	1
1:B:32:SER:OG	1:B:33:LEU:N	0.50	2.45	18	5
1:A:56:LEU:HD13	1:A:56:LEU:C	0.50	2.27	5	2
1:B:42:ALA:HA	1:B:45:GLN:HB2	0.50	1.83	9	4
1:A:71:LEU:HD23	1:A:73:PHE:O	0.50	2.06	18	2
1:A:89:LYS:HG3	1:A:90:GLU:N	0.50	2.21	19	1
1:A:76:TYR:O	1:B:87:VAL:CG2	0.50	2.60	20	1
1:A:73:PHE:CE1	1:A:75:GLU:CG	0.50	2.94	19	8
1:B:42:ALA:O	1:B:46:LEU:HG	0.50	2.06	12	17
1:A:76:TYR:CE1	1:A:79:LEU:HD12	0.50	2.41	2	2
1:A:77:TRP:HB3	1:B:91:LYS:HB2	0.50	1.83	20	2
1:A:41:LEU:C	1:A:45:GLN:CG	0.50	2.80	12	2
1:B:49:LEU:HD13	1:B:49:LEU:C	0.50	2.26	8	1
1:A:56:LEU:N	1:A:56:LEU:HD23	0.50	2.21	17	1
1:B:23:PHE:CZ	1:B:34:ASN:O	0.50	2.64	2	1
1:A:6:LEU:O	1:B:48:HIS:CE1	0.50	2.64	6	11
1:A:85:LYS:CG	1:B:3:ALA:HB1	0.50	2.36	9	1
1:A:31:GLY:O	1:A:73:PHE:N	0.50	2.45	7	12
1:A:23:PHE:CE1	1:A:34:ASN:O	0.50	2.65	2	1
1:A:35:ILE:N	1:A:35:ILE:CD1	0.50	2.74	11	4
1:B:24:ALA:CA	1:B:33:LEU:HB2	0.50	2.37	13	4
1:A:3:ALA:CB	1:B:85:LYS:CD	0.50	2.90	7	1
1:A:89:LYS:CD	1:B:6:LEU:N	0.50	2.75	9	1
1:A:23:PHE:HB3	1:A:33:LEU:HD21	0.50	1.83	14	1
1:B:20:PHE:CE1	1:B:23:PHE:CD2	0.50	3.00	2	9
1:B:31:GLY:O	1:B:72:ARG:CB	0.50	2.60	17	12
1:A:3:ALA:CB	1:B:85:LYS:CE	0.50	2.90	7	3
1:A:76:TYR:HB2	1:B:91:LYS:HA	0.50	1.82	17	14
1:B:83:LEU:O	1:B:86:GLU:CG	0.50	2.60	2	6
1:A:9:LEU:HD11	1:B:82:GLU:HB3	0.50	1.84	6	5
1:B:76:TYR:HD1	1:B:79:LEU:HD11	0.50	1.54	14	3
1:A:67:GLN:NE2	1:A:68:ASP:N	0.50	2.60	5	5
1:A:7:THR:CG2	1:B:45:GLN:NE2	0.50	2.74	5	3
1:A:68:ASP:O	1:A:78:ARG:HB2	0.50	2.07	20	7
1:A:79:LEU:HD12	1:B:87:VAL:HG23	0.50	1.82	20	1
1:A:42:ALA:O	1:A:46:LEU:N	0.49	2.45	14	18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:52:ASP:O	1:A:53:VAL:CG1	0.49	2.59	12	9
1:B:39:LYS:HE2	1:B:63:LEU:HD21	0.49	1.84	2	1
1:A:9:LEU:HD12	1:B:82:GLU:C	0.49	2.27	3	4
1:A:84:ALA:O	1:A:88:ARG:N	0.49	2.44	14	11
1:B:75:GLU:OE1	1:B:77:TRP:NE1	0.49	2.45	18	5
1:B:56:LEU:C	1:B:56:LEU:HD13	0.49	2.27	5	2
1:A:38:PHE:O	1:B:1:MET:HB2	0.49	2.06	10	7
1:B:73:PHE:CE1	1:B:75:GLU:HG2	0.49	2.41	19	5
1:A:6:LEU:N	1:B:89:LYS:CD	0.49	2.75	9	1
1:A:26:ARG:CG	1:A:37:GLU:CG	0.49	2.90	14	2
1:B:52:ASP:O	1:B:53:VAL:HG23	0.49	2.07	14	1
1:A:24:ALA:HB2	1:A:33:LEU:HB2	0.49	1.83	6	9
1:B:42:ALA:O	1:B:46:LEU:N	0.49	2.45	14	18
1:A:16:VAL:HG21	1:A:83:LEU:CG	0.49	2.35	3	4
1:A:74:SER:O	1:A:77:TRP:CZ3	0.49	2.65	18	10
1:A:32:SER:HB2	1:A:73:PHE:CE1	0.49	2.42	4	2
1:B:50:LEU:HD23	1:B:50:LEU:H	0.49	1.67	11	1
1:A:87:VAL:HG11	1:B:80:ILE:HA	0.49	1.82	20	1
1:A:7:THR:O	1:A:10:GLU:CG	0.49	2.60	10	20
1:B:31:GLY:O	1:B:73:PHE:N	0.49	2.45	19	11
1:B:61:LYS:O	1:B:65:VAL:HG23	0.49	2.06	2	2
1:A:20:PHE:CE1	1:A:23:PHE:CG	0.49	3.00	3	1
1:B:24:ALA:HA	1:B:33:LEU:CB	0.49	2.36	13	1
1:A:97:LYS:CD	1:B:30:LYS:CB	0.49	2.90	15	1
1:A:46:LEU:O	1:A:51:LYS:CE	0.49	2.61	17	8
1:A:73:PHE:CE1	1:A:75:GLU:HG2	0.49	2.41	19	5
1:A:90:GLU:CG	1:B:6:LEU:HD23	0.49	2.38	14	2
1:A:73:PHE:HB2	1:B:95:ILE:HG22	0.49	1.83	18	1
1:B:24:ALA:HA	1:B:33:LEU:HB3	0.49	1.84	20	1
1:A:51:LYS:HG2	1:A:52:ASP:N	0.49	2.23	13	12
1:A:52:ASP:O	1:A:53:VAL:CB	0.49	2.61	14	8
1:A:95:ILE:HG22	1:B:73:PHE:HB2	0.49	1.83	18	2
1:A:71:LEU:HD13	1:A:71:LEU:H	0.49	1.67	18	6
1:A:72:ARG:N	1:A:72:ARG:CD	0.49	2.75	10	4
1:B:26:ARG:CD	1:B:37:GLU:CG	0.49	2.91	17	1
1:A:6:LEU:HD12	1:B:89:LYS:HG3	0.49	1.83	4	1
1:A:24:ALA:CA	1:A:33:LEU:HB2	0.49	2.36	13	5
1:A:4:GLU:CG	1:B:54:GLY:CA	0.49	2.91	8	2
1:A:71:LEU:HD21	1:A:76:TYR:CE1	0.49	2.42	14	1
1:A:1:MET:O	1:B:38:PHE:CD1	0.49	2.65	3	14
1:B:71:LEU:CG	1:B:76:TYR:N	0.49	2.76	2	5

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:94:GLY:HA3	1:B:76:TYR:CD2	0.49	2.43	3	9
1:B:74:SER:O	1:B:77:TRP:CZ3	0.49	2.65	18	7
1:A:32:SER:OG	1:A:33:LEU:N	0.49	2.45	9	5
1:A:56:LEU:HD12	1:A:57:ASP:N	0.49	2.23	16	2
1:B:9:LEU:N	1:B:9:LEU:CD2	0.49	2.75	13	2
1:B:68:ASP:O	1:B:78:ARG:HB2	0.49	2.08	20	5
1:A:13:ILE:HA	1:A:16:VAL:HG12	0.49	1.84	13	3
1:A:24:ALA:HA	1:A:33:LEU:CB	0.49	2.37	13	1
1:A:6:LEU:CD1	1:B:48:HIS:CE1	0.49	2.96	14	1
1:B:56:LEU:HD12	1:B:57:ASP:N	0.49	2.23	16	1
1:B:52:ASP:O	1:B:53:VAL:CB	0.49	2.61	14	8
1:A:6:LEU:HD21	1:B:48:HIS:CD2	0.49	2.41	2	1
1:A:23:PHE:CZ	1:A:34:ASN:O	0.49	2.66	2	1
1:A:89:LYS:HD2	1:B:6:LEU:N	0.49	2.22	9	3
1:A:3:ALA:HB1	1:B:85:LYS:CG	0.49	2.37	9	1
1:B:33:LEU:CD2	1:B:37:GLU:CG	0.49	2.90	13	1
1:A:31:GLY:O	1:A:72:ARG:CB	0.49	2.61	10	14
1:B:68:ASP:O	1:B:78:ARG:CB	0.49	2.61	5	8
1:B:17:VAL:HA	1:B:21:PHE:HB2	0.49	1.85	4	3
1:B:70:GLU:HA	1:B:79:LEU:HD23	0.49	1.85	19	5
1:A:33:LEU:HD22	1:A:37:GLU:HG3	0.49	1.84	13	1
1:A:13:ILE:HD11	1:B:87:VAL:HG22	0.49	1.84	19	1
1:A:5:THR:HB	1:B:48:HIS:CG	0.49	2.43	16	3
1:A:76:TYR:HD1	1:A:79:LEU:HD11	0.49	1.58	14	3
1:B:6:LEU:HD12	1:B:6:LEU:H	0.49	1.67	3	1
1:B:33:LEU:HG	1:B:34:ASN:N	0.49	2.23	14	4
1:A:53:VAL:O	1:A:53:VAL:HG13	0.49	2.08	16	2
1:A:50:LEU:HD23	1:A:50:LEU:H	0.49	1.67	11	1
1:B:26:ARG:CG	1:B:37:GLU:CG	0.49	2.91	14	2
1:A:16:VAL:CB	1:A:83:LEU:HD21	0.48	2.38	12	3
1:B:13:ILE:O	1:B:13:ILE:HD13	0.48	2.08	5	7
1:A:33:LEU:CD2	1:A:70:GLU:HB3	0.48	2.35	15	5
1:B:20:PHE:CE1	1:B:23:PHE:CG	0.48	3.01	3	1
1:B:46:LEU:O	1:B:51:LYS:CE	0.48	2.61	10	8
1:B:67:GLN:HG2	1:B:68:ASP:N	0.48	2.23	8	5
1:B:35:ILE:HG22	1:B:38:PHE:CG	0.48	2.43	14	1
1:A:80:ILE:CG2	1:A:81:GLY:N	0.48	2.77	19	20
1:B:73:PHE:CE1	1:B:75:GLU:CG	0.48	2.96	19	8
1:A:38:PHE:CD1	1:B:1:MET:O	0.48	2.66	3	13
1:A:5:THR:N	1:B:45:GLN:OE1	0.48	2.46	17	3
1:A:30:LYS:CB	1:B:97:LYS:CD	0.48	2.91	15	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:ARG:CD	1:A:37:GLU:CG	0.48	2.91	17	1
1:B:24:ALA:HB2	1:B:33:LEU:HB2	0.48	1.84	6	9
1:A:37:GLU:O	1:A:40:GLU:HG2	0.48	2.07	3	6
1:A:74:SER:O	1:A:77:TRP:CE3	0.48	2.67	6	8
1:A:94:GLY:CA	1:B:76:TYR:CD2	0.48	2.97	4	2
1:B:72:ARG:CA	1:B:72:ARG:NE	0.48	2.76	13	4
1:A:31:GLY:HA2	1:A:73:PHE:CD2	0.48	2.43	12	2
1:A:9:LEU:HD12	1:B:83:LEU:N	0.48	2.23	13	1
1:A:20:PHE:HB3	1:B:9:LEU:CD2	0.48	2.38	13	1
1:B:13:ILE:HA	1:B:16:VAL:HG12	0.48	1.85	13	3
1:A:83:LEU:HD11	1:B:86:GLU:OE1	0.48	2.09	14	1
1:A:87:VAL:CG1	1:B:76:TYR:O	0.48	2.62	5	13
1:B:71:LEU:HD23	1:B:75:GLU:HB2	0.48	1.85	5	8
1:B:23:PHE:CE1	1:B:34:ASN:O	0.48	2.66	2	1
1:A:24:ALA:HB2	1:A:70:GLU:CG	0.48	2.37	10	7
1:A:73:PHE:CZ	1:A:75:GLU:CD	0.48	2.87	3	1
1:B:62:THR:HG22	1:B:66:ASN:HB2	0.48	1.83	4	1
1:A:39:LYS:CE	1:A:63:LEU:CD1	0.48	2.92	10	1
1:A:1:MET:HE2	1:B:43:THR:HG23	0.48	1.86	20	1
1:B:23:PHE:CD1	1:B:37:GLU:HG3	0.48	2.44	17	7
1:A:7:THR:HG22	1:A:8:GLU:OE1	0.48	2.09	8	1
1:A:85:LYS:CE	1:B:3:ALA:HB3	0.48	2.38	8	1
1:A:45:GLN:O	1:A:51:LYS:CE	0.48	2.61	19	1
1:A:89:LYS:HE3	1:B:6:LEU:HD11	0.48	1.83	19	1
1:A:24:ALA:HA	1:A:33:LEU:HB3	0.48	1.85	20	1
1:A:80:ILE:HA	1:B:87:VAL:HG11	0.48	1.86	20	1
1:A:33:LEU:CD1	1:A:70:GLU:HB3	0.48	2.38	12	10
1:B:16:VAL:CB	1:B:83:LEU:HD21	0.48	2.39	12	3
1:A:5:THR:HB	1:B:48:HIS:CD2	0.48	2.43	7	1
1:A:16:VAL:HG13	1:A:17:VAL:N	0.48	2.22	8	6
1:A:5:THR:CG2	1:B:89:LYS:HD3	0.48	2.38	17	4
1:A:5:THR:HG21	1:B:48:HIS:CD2	0.48	2.43	14	1
1:B:56:LEU:HD23	1:B:56:LEU:N	0.48	2.22	17	1
1:B:70:GLU:HA	1:B:79:LEU:HD21	0.48	1.85	15	2
1:B:89:LYS:NZ	1:B:89:LYS:HB3	0.48	2.24	7	4
1:A:79:LEU:HA	1:A:82:GLU:CG	0.48	2.39	15	3
1:A:39:LYS:O	1:B:1:MET:HG2	0.48	2.09	7	4
1:B:21:PHE:CD2	1:B:70:GLU:OE1	0.48	2.67	6	2
1:B:72:ARG:N	1:B:72:ARG:CD	0.48	2.75	7	4
1:B:50:LEU:HD11	1:B:89:LYS:HB2	0.48	1.86	11	1
1:A:6:LEU:CD1	1:B:89:LYS:CE	0.48	2.89	19	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:LEU:HB2	1:B:48:HIS:CE1	0.48	2.43	19	3
1:A:46:LEU:O	1:A:51:LYS:CD	0.48	2.62	16	11
1:B:80:ILE:CG2	1:B:81:GLY:N	0.48	2.77	8	19
1:B:62:THR:CG2	1:B:66:ASN:ND2	0.48	2.77	9	2
1:A:14:GLU:HA	1:A:17:VAL:HG12	0.48	1.85	20	7
1:A:21:PHE:CD2	1:A:79:LEU:CD2	0.48	2.96	19	6
1:A:1:MET:HB2	1:B:39:LYS:HA	0.48	1.84	10	4
1:A:39:LYS:HE3	1:A:63:LEU:HD11	0.48	1.85	10	1
1:A:71:LEU:HD21	1:A:73:PHE:HD1	0.48	1.68	12	1
1:B:24:ALA:CB	1:B:72:ARG:HG2	0.48	2.38	13	1
1:A:6:LEU:HD12	1:B:48:HIS:CE1	0.48	2.44	14	1
1:A:42:ALA:N	1:A:45:GLN:OE1	0.48	2.47	16	2
1:A:57:ASP:O	1:A:60:MET:N	0.48	2.47	12	14
1:B:87:VAL:HG12	1:B:87:VAL:O	0.48	2.09	19	7
1:B:73:PHE:CZ	1:B:75:GLU:CD	0.48	2.87	3	1
1:A:23:PHE:CD1	1:A:23:PHE:C	0.48	2.87	11	4
1:B:14:GLU:HA	1:B:17:VAL:HG12	0.48	1.84	20	8
1:B:82:GLU:O	1:B:85:LYS:N	0.48	2.47	20	11
1:A:6:LEU:N	1:B:89:LYS:HD2	0.48	2.24	9	3
1:A:71:LEU:CD2	1:A:71:LEU:C	0.48	2.82	6	5
1:A:72:ARG:O	1:B:97:LYS:CE	0.48	2.62	9	9
1:A:59:LYS:NZ	1:B:2:ALA:HB3	0.48	2.24	3	1
1:B:24:ALA:HB2	1:B:70:GLU:CG	0.48	2.39	10	6
1:A:49:LEU:CD1	1:A:50:LEU:N	0.48	2.77	8	1
1:B:16:VAL:HG13	1:B:17:VAL:N	0.48	2.23	8	6
1:B:49:LEU:CD1	1:B:50:LEU:N	0.48	2.77	8	1
1:A:48:HIS:CG	1:B:5:THR:CG2	0.48	2.90	9	1
1:A:46:LEU:O	1:A:48:HIS:N	0.48	2.47	10	2
1:B:31:GLY:O	1:B:72:ARG:HG2	0.48	2.09	13	2
1:B:6:LEU:HD23	1:B:10:GLU:CD	0.48	2.28	17	1
1:A:23:PHE:CE1	1:A:33:LEU:HG	0.48	2.44	19	1
1:A:54:GLY:HA2	1:B:4:GLU:HG3	0.48	1.86	20	1
1:A:54:GLY:CA	1:B:4:GLU:HG3	0.47	2.39	8	2
1:A:46:LEU:O	1:A:51:LYS:CG	0.47	2.62	10	2
1:B:42:ALA:O	1:B:46:LEU:CG	0.47	2.62	20	2
1:A:31:GLY:O	1:A:72:ARG:HG2	0.47	2.09	13	2
1:A:71:LEU:HD11	1:A:76:TYR:CD2	0.47	2.44	18	1
1:B:84:ALA:CA	1:B:87:VAL:HG12	0.47	2.38	20	1
1:A:1:MET:CE	1:B:43:THR:CG2	0.47	2.92	1	3
1:A:2:ALA:HA	1:B:62:THR:HG21	0.47	1.85	4	4
1:A:42:ALA:HA	1:A:45:GLN:HG2	0.47	1.86	1	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:73:PHE:CG	1:B:74:SER:N	0.47	2.81	11	6
1:A:61:LYS:O	1:A:65:VAL:HG23	0.47	2.09	2	2
1:A:23:PHE:CG	1:A:33:LEU:CD2	0.47	2.96	3	1
1:A:83:LEU:O	1:A:86:GLU:HG2	0.47	2.10	4	5
1:B:26:ARG:CZ	1:B:36:ASN:ND2	0.47	2.77	8	1
1:B:39:LYS:CE	1:B:63:LEU:CD1	0.47	2.92	10	1
1:A:75:GLU:OE2	1:A:77:TRP:CH2	0.47	2.67	13	2
1:A:90:GLU:CD	1:B:6:LEU:HD21	0.47	2.28	16	1
1:A:55:SER:O	1:A:59:LYS:CD	0.47	2.63	18	1
1:A:71:LEU:C	1:A:71:LEU:CD1	0.47	2.83	12	7
1:A:82:GLU:O	1:A:85:LYS:N	0.47	2.46	20	16
1:B:7:THR:O	1:B:10:GLU:CG	0.47	2.62	8	20
1:A:87:VAL:HG12	1:A:87:VAL:O	0.47	2.09	19	8
1:B:71:LEU:HG	1:B:75:GLU:CA	0.47	2.40	16	7
1:B:71:LEU:CD2	1:B:71:LEU:C	0.47	2.82	6	5
1:A:9:LEU:HD13	1:B:16:VAL:CG2	0.47	2.39	5	4
1:A:75:GLU:OE2	1:A:77:TRP:CZ2	0.47	2.67	5	4
1:B:75:GLU:OE2	1:B:77:TRP:CZ2	0.47	2.67	17	5
1:A:26:ARG:CZ	1:A:36:ASN:ND2	0.47	2.77	8	1
1:A:56:LEU:C	1:A:56:LEU:HD23	0.47	2.29	12	1
1:B:56:LEU:HD23	1:B:56:LEU:C	0.47	2.29	12	1
1:A:48:HIS:CD2	1:B:5:THR:HG21	0.47	2.44	14	1
1:A:48:HIS:CE1	1:B:6:LEU:CD1	0.47	2.97	14	1
1:A:70:GLU:HA	1:A:79:LEU:HD11	0.47	1.87	15	1
1:A:33:LEU:CD1	1:A:70:GLU:OE1	0.47	2.63	16	1
1:A:1:MET:HG2	1:B:39:LYS:O	0.47	2.08	7	7
1:A:33:LEU:HB3	1:A:70:GLU:CG	0.47	2.40	1	5
1:A:95:ILE:HG22	1:B:73:PHE:C	0.47	2.29	10	2
1:A:91:LYS:HA	1:B:76:TYR:CB	0.47	2.40	2	5
1:A:97:LYS:CE	1:B:72:ARG:O	0.47	2.62	9	9
1:B:21:PHE:O	1:B:70:GLU:OE1	0.47	2.33	18	6
1:B:32:SER:HA	1:B:71:LEU:HA	0.47	1.86	2	2
1:B:23:PHE:CD1	1:B:23:PHE:C	0.47	2.87	4	7
1:B:33:LEU:CD1	1:B:70:GLU:HB3	0.47	2.39	12	9
1:A:72:ARG:NE	1:A:72:ARG:CA	0.47	2.77	13	5
1:A:85:LYS:HD3	1:B:9:LEU:HD12	0.47	1.86	12	1
1:B:33:LEU:HD22	1:B:70:GLU:CB	0.47	2.37	15	1
1:A:94:GLY:O	1:A:96:ARG:N	0.47	2.47	3	11
1:B:46:LEU:O	1:B:51:LYS:CD	0.47	2.63	17	10
1:A:83:LEU:O	1:A:86:GLU:CG	0.47	2.63	5	4
1:A:2:ALA:HB3	1:B:59:LYS:NZ	0.47	2.24	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:32:SER:CB	1:A:71:LEU:HA	0.47	2.39	16	3
1:B:71:LEU:HD11	1:B:76:TYR:CD2	0.47	2.44	18	1
1:B:69:SER:HA	1:B:78:ARG:HB3	0.47	1.86	20	1
1:A:91:LYS:CG	1:A:92:ALA:N	0.47	2.78	18	18
1:B:86:GLU:O	1:B:90:GLU:CG	0.47	2.62	20	8
1:A:21:PHE:O	1:A:70:GLU:OE1	0.47	2.32	18	6
1:A:62:THR:CG2	1:A:66:ASN:ND2	0.47	2.78	9	2
1:A:7:THR:HG22	1:B:45:GLN:OE1	0.47	2.08	3	1
1:B:46:LEU:O	1:B:51:LYS:CG	0.47	2.62	17	2
1:A:24:ALA:HB2	1:A:72:ARG:NH1	0.47	2.25	14	1
1:A:24:ALA:N	1:A:33:LEU:CD1	0.47	2.76	18	1
1:A:47:PRO:HA	1:A:51:LYS:HE2	0.47	1.85	3	4
1:A:65:VAL:HG12	1:A:66:ASN:ND2	0.47	2.24	1	1
1:A:32:SER:HA	1:A:71:LEU:HA	0.47	1.87	4	2
1:A:71:LEU:HD21	1:A:76:TYR:CA	0.47	2.39	2	1
1:A:83:LEU:O	1:A:86:GLU:HG3	0.47	2.10	3	3
1:B:71:LEU:HG	1:B:75:GLU:HB2	0.47	1.86	2	6
1:B:76:TYR:CE1	1:B:79:LEU:HD12	0.47	2.43	2	1
1:B:70:GLU:HG3	1:B:71:LEU:N	0.47	2.25	3	1
1:A:6:LEU:CD1	1:B:89:LYS:CG	0.47	2.93	4	1
1:A:70:GLU:HA	1:A:79:LEU:CD2	0.47	2.40	16	4
1:B:84:ALA:O	1:B:88:ARG:N	0.47	2.47	14	6
1:B:20:PHE:CZ	1:B:33:LEU:HD11	0.47	2.45	15	2
1:A:45:GLN:OE1	1:B:5:THR:N	0.47	2.47	17	3
1:A:4:GLU:CG	1:B:42:ALA:CB	0.47	2.92	11	1
1:B:41:LEU:HB3	1:B:45:GLN:OE1	0.47	2.10	13	1
1:B:75:GLU:OE2	1:B:77:TRP:CH2	0.47	2.67	13	1
1:A:46:LEU:HD23	1:A:54:GLY:H	0.47	1.69	14	1
1:B:76:TYR:CE1	1:B:79:LEU:HD22	0.47	2.44	15	1
1:B:33:LEU:CD1	1:B:70:GLU:OE1	0.47	2.62	16	1
1:A:79:LEU:N	1:A:79:LEU:CD2	0.47	2.71	18	1
1:A:7:THR:HB	1:A:9:LEU:CD1	0.47	2.39	20	1
1:B:18:SER:O	1:B:22:THR:HG21	0.47	2.09	20	8
1:B:42:ALA:N	1:B:45:GLN:OE1	0.47	2.48	16	2
1:B:91:LYS:CG	1:B:92:ALA:N	0.47	2.78	20	18
1:B:94:GLY:O	1:B:96:ARG:N	0.47	2.48	12	13
1:A:5:THR:HG22	1:A:6:LEU:H	0.47	1.70	3	4
1:A:50:LEU:HD23	1:B:5:THR:CG2	0.47	2.40	2	1
1:A:76:TYR:CB	1:B:91:LYS:HA	0.47	2.39	2	2
1:A:45:GLN:OE1	1:B:7:THR:HG22	0.47	2.09	3	1
1:B:23:PHE:CG	1:B:33:LEU:CD2	0.47	2.98	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:ILE:HG21	1:A:63:LEU:C	0.47	2.30	5	1
1:A:80:ILE:N	1:B:87:VAL:HG11	0.47	2.25	7	5
1:A:4:GLU:HG3	1:B:54:GLY:CA	0.47	2.40	8	2
1:A:26:ARG:NE	1:A:36:ASN:ND2	0.47	2.63	8	1
1:A:5:THR:CG2	1:B:48:HIS:CG	0.47	2.90	9	1
1:A:85:LYS:NZ	1:B:3:ALA:CB	0.47	2.78	10	1
1:B:53:VAL:HG12	1:B:53:VAL:O	0.47	2.10	10	2
1:A:71:LEU:HD13	1:A:72:ARG:N	0.47	2.24	11	3
1:A:21:PHE:CZ	1:A:79:LEU:HB3	0.47	2.45	14	2
1:A:20:PHE:CZ	1:A:70:GLU:OE1	0.47	2.67	20	1
1:A:48:HIS:NE2	1:B:6:LEU:O	0.47	2.48	11	12
1:B:33:LEU:CD2	1:B:70:GLU:HB3	0.47	2.35	15	4
1:A:5:THR:HG21	1:B:48:HIS:CB	0.47	2.40	6	2
1:A:70:GLU:HG3	1:A:71:LEU:N	0.47	2.23	3	2
1:B:51:LYS:CG	1:B:52:ASP:N	0.47	2.78	14	4
1:B:5:THR:HG22	1:B:6:LEU:N	0.47	2.25	19	6
1:A:16:VAL:CG2	1:B:9:LEU:HD13	0.47	2.40	5	3
1:A:27:GLU:CG	1:A:34:ASN:ND2	0.47	2.78	6	2
1:A:23:PHE:CE2	1:A:70:GLU:HG3	0.47	2.45	20	1
1:A:26:ARG:CG	1:A:37:GLU:HG3	0.47	2.40	14	4
1:A:62:THR:HG21	1:B:2:ALA:HA	0.47	1.85	4	4
1:B:33:LEU:CB	1:B:70:GLU:HB3	0.47	2.40	11	7
1:A:94:GLY:C	1:B:73:PHE:O	0.47	2.54	17	13
1:A:42:ALA:CB	1:A:59:LYS:HG3	0.47	2.40	3	2
1:B:50:LEU:HD11	1:B:89:LYS:HD2	0.47	1.87	5	1
1:A:89:LYS:HD2	1:B:5:THR:CG2	0.47	2.40	6	1
1:A:34:ASN:O	1:A:67:GLN:O	0.47	2.34	13	6
1:A:23:PHE:CE2	1:A:41:LEU:CD2	0.47	2.95	14	2
1:B:24:ALA:HB3	1:B:72:ARG:CG	0.47	2.40	13	1
1:B:76:TYR:CE1	1:B:79:LEU:CD1	0.47	2.98	18	1
1:A:87:VAL:CG2	1:B:76:TYR:O	0.47	2.63	20	1
1:A:83:LEU:HB3	1:B:83:LEU:HD13	0.46	1.87	1	1
1:B:70:GLU:HA	1:B:79:LEU:CD2	0.46	2.40	16	3
1:A:50:LEU:HD11	1:A:89:LYS:HD3	0.46	1.87	5	1
1:B:75:GLU:OE1	1:B:78:ARG:CG	0.46	2.63	18	5
1:A:6:LEU:O	1:B:48:HIS:NE2	0.46	2.49	11	12
1:B:69:SER:O	1:B:79:LEU:CD2	0.46	2.62	13	3
1:B:5:THR:HG22	1:B:6:LEU:H	0.46	1.71	3	3
1:B:57:ASP:O	1:B:60:MET:N	0.46	2.48	12	11
1:B:42:ALA:O	1:B:46:LEU:CB	0.46	2.64	17	6
1:A:20:PHE:CZ	1:A:33:LEU:HD11	0.46	2.45	15	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:43:THR:HG23	1:B:1:MET:HE3	0.46	1.87	8	4
1:A:41:LEU:N	1:A:41:LEU:CD2	0.46	2.78	8	2
1:A:35:ILE:HG22	1:A:38:PHE:CG	0.46	2.45	14	2
1:A:33:LEU:O	1:A:70:GLU:CG	0.46	2.64	13	1
1:A:23:PHE:HB3	1:A:37:GLU:HB2	0.46	1.86	14	1
1:A:14:GLU:CG	1:A:15:THR:N	0.46	2.78	15	1
1:A:54:GLY:N	1:B:4:GLU:CG	0.46	2.79	16	1
1:A:7:THR:CB	1:A:9:LEU:CD1	0.46	2.94	20	1
1:B:15:THR:O	1:B:19:THR:N	0.46	2.49	3	10
1:B:71:LEU:C	1:B:71:LEU:CD1	0.46	2.84	10	7
1:B:21:PHE:CA	1:B:70:GLU:OE1	0.46	2.64	2	1
1:B:23:PHE:CZ	1:B:38:PHE:HB2	0.46	2.46	11	7
1:A:23:PHE:CE1	1:A:70:GLU:HB2	0.46	2.45	3	1
1:A:85:LYS:O	1:A:89:LYS:HE3	0.46	2.10	6	3
1:B:79:LEU:O	1:B:82:GLU:N	0.46	2.48	20	3
1:A:74:SER:N	1:B:95:ILE:HG23	0.46	2.25	16	3
1:B:49:LEU:HD23	1:B:50:LEU:N	0.46	2.25	4	1
1:A:68:ASP:CB	1:A:78:ARG:HG3	0.46	2.40	11	4
1:A:6:LEU:HD23	1:B:86:GLU:CA	0.46	2.41	6	1
1:B:71:LEU:C	1:B:72:ARG:HD2	0.46	2.31	20	5
1:B:71:LEU:CD1	1:B:76:TYR:CD2	0.46	2.96	11	2
1:A:24:ALA:N	1:A:70:GLU:OE2	0.46	2.45	14	1
1:A:89:LYS:CE	1:B:6:LEU:CD1	0.46	2.90	19	1
1:B:20:PHE:CZ	1:B:70:GLU:OE1	0.46	2.69	20	1
1:A:75:GLU:O	1:A:77:TRP:N	0.46	2.49	2	5
1:A:49:LEU:HD23	1:A:50:LEU:N	0.46	2.25	4	1
1:B:74:SER:O	1:B:77:TRP:CE3	0.46	2.68	16	6
1:A:21:PHE:CD1	1:A:79:LEU:HD22	0.46	2.45	13	1
1:A:86:GLU:OE1	1:B:83:LEU:HD11	0.46	2.10	14	1
1:B:90:GLU:O	1:B:94:GLY:N	0.46	2.49	20	2
1:A:45:GLN:O	1:A:51:LYS:HE2	0.46	2.10	19	1
1:A:1:MET:SD	1:B:39:LYS:HA	0.46	2.50	5	9
1:A:9:LEU:HD12	1:B:82:GLU:O	0.46	2.11	5	2
1:B:35:ILE:HG21	1:B:63:LEU:C	0.46	2.30	5	2
1:A:85:LYS:HZ2	1:B:3:ALA:HB1	0.46	1.71	4	1
1:B:29:ARG:HG2	1:B:30:LYS:N	0.46	2.25	5	4
1:A:74:SER:CB	1:B:91:LYS:O	0.46	2.63	18	2
1:B:79:LEU:HD23	1:B:79:LEU:H	0.46	1.67	18	1
1:A:7:THR:CB	1:B:85:LYS:HZ1	0.46	2.23	1	1
1:A:41:LEU:O	1:A:43:THR:N	0.46	2.49	19	10
1:A:24:ALA:CB	1:A:72:ARG:HG2	0.46	2.40	13	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:70:GLU:CA	1:B:79:LEU:HD11	0.46	2.41	15	1
1:A:79:LEU:HD23	1:A:79:LEU:H	0.46	1.65	18	1
1:B:42:ALA:HB3	1:B:59:LYS:HG3	0.46	1.88	18	1
1:A:33:LEU:CB	1:A:70:GLU:HB3	0.46	2.41	11	7
1:B:33:LEU:HB3	1:B:70:GLU:CG	0.46	2.41	1	2
1:B:30:LYS:C	1:B:72:ARG:HB2	0.46	2.31	2	1
1:A:62:THR:HG22	1:A:66:ASN:HB2	0.46	1.86	4	1
1:A:76:TYR:CD2	1:B:94:GLY:CA	0.46	2.98	4	2
1:A:85:LYS:O	1:A:89:LYS:NZ	0.46	2.48	10	5
1:A:86:GLU:CA	1:B:6:LEU:HD23	0.46	2.41	6	1
1:B:34:ASN:O	1:B:67:GLN:O	0.46	2.34	13	6
1:A:16:VAL:HG11	1:A:83:LEU:HD21	0.46	1.88	11	2
1:B:37:GLU:O	1:B:40:GLU:HG2	0.46	2.11	13	2
1:B:24:ALA:N	1:B:70:GLU:OE2	0.46	2.45	14	1
1:A:7:THR:CB	1:A:9:LEU:HD12	0.46	2.40	20	1
1:B:65:VAL:HG12	1:B:66:ASN:ND2	0.46	2.26	1	1
1:B:71:LEU:HG	1:B:75:GLU:C	0.46	2.31	16	9
1:A:95:ILE:CG2	1:B:74:SER:CB	0.46	2.94	2	3
1:A:9:LEU:CG	1:B:16:VAL:HG23	0.46	2.41	6	5
1:A:89:LYS:CG	1:B:6:LEU:HD12	0.46	2.41	4	1
1:B:64:ASP:O	1:B:67:GLN:OE1	0.46	2.34	20	4
1:B:41:LEU:N	1:B:41:LEU:CD2	0.46	2.78	8	1
1:A:86:GLU:CB	1:B:10:GLU:HA	0.46	2.40	9	1
1:B:26:ARG:CG	1:B:37:GLU:HG3	0.46	2.41	14	3
1:B:33:LEU:O	1:B:70:GLU:CG	0.46	2.63	13	1
1:B:70:GLU:O	1:B:70:GLU:HG2	0.46	2.11	13	1
1:B:24:ALA:HB2	1:B:72:ARG:NH1	0.46	2.26	14	1
1:B:70:GLU:HA	1:B:79:LEU:HD11	0.46	1.87	15	1
1:A:79:LEU:HD12	1:A:79:LEU:H	0.46	1.70	17	1
1:A:35:ILE:CD1	1:A:63:LEU:CD2	0.46	2.94	18	1
1:A:48:HIS:CB	1:A:51:LYS:HB2	0.46	2.41	20	3
1:B:20:PHE:CE2	1:B:41:LEU:CD2	0.46	2.96	19	1
1:B:59:LYS:O	1:B:63:LEU:CD1	0.46	2.63	1	7
1:A:9:LEU:O	1:A:12:ALA:N	0.46	2.49	18	11
1:A:16:VAL:CG2	1:A:21:PHE:CE2	0.46	2.95	2	2
1:A:21:PHE:CA	1:A:70:GLU:OE1	0.46	2.63	2	1
1:A:1:MET:HB2	1:B:38:PHE:O	0.46	2.11	16	6
1:A:21:PHE:CD2	1:A:70:GLU:OE1	0.46	2.69	6	2
1:A:50:LEU:O	1:B:5:THR:HG21	0.46	2.11	8	1
1:B:24:ALA:CB	1:B:72:ARG:HD3	0.46	2.41	11	1
1:B:14:GLU:O	1:B:17:VAL:HG12	0.46	2.11	15	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:71:LEU:CD2	1:A:76:TYR:CE1	0.46	2.99	14	1
1:B:23:PHE:CE2	1:B:41:LEU:CD2	0.46	2.97	14	1
1:A:70:GLU:CA	1:A:79:LEU:HD11	0.46	2.41	15	1
1:A:5:THR:HG23	1:B:89:LYS:CB	0.46	2.41	18	1
1:A:46:LEU:CD1	1:A:47:PRO:HD3	0.46	2.41	20	1
1:A:79:LEU:O	1:A:82:GLU:N	0.46	2.49	20	3
1:B:32:SER:HB3	1:B:71:LEU:CB	0.46	2.40	14	3
1:A:5:THR:CG2	1:B:51:LYS:HA	0.46	2.41	4	2
1:B:23:PHE:CE1	1:B:33:LEU:HG	0.46	2.46	19	3
1:B:4:GLU:CA	1:B:4:GLU:OE1	0.46	2.64	17	2
1:A:14:GLU:O	1:A:17:VAL:HG12	0.46	2.10	15	2
1:B:55:SER:O	1:B:59:LYS:CD	0.46	2.64	18	1
1:B:32:SER:HB3	1:B:73:PHE:CZ	0.45	2.46	2	2
1:A:48:HIS:CG	1:B:5:THR:HB	0.45	2.46	3	2
1:A:86:GLU:HB2	1:B:10:GLU:HA	0.45	1.87	5	2
1:A:3:ALA:HB1	1:A:7:THR:OG1	0.45	2.12	8	2
1:B:46:LEU:O	1:B:48:HIS:N	0.45	2.49	10	2
1:B:49:LEU:HD12	1:B:49:LEU:N	0.45	2.27	10	2
1:A:42:ALA:HB3	1:B:1:MET:HB3	0.45	1.87	14	1
1:A:66:ASN:OD1	1:A:66:ASN:N	0.45	2.49	14	2
1:A:71:LEU:HD21	1:A:76:TYR:CE2	0.45	2.45	18	1
1:B:6:LEU:HD22	1:B:10:GLU:HB3	0.45	1.88	19	1
1:A:23:PHE:CE1	1:A:33:LEU:HB2	0.45	2.47	20	1
1:A:48:HIS:CE1	1:B:6:LEU:HB2	0.45	2.46	19	3
1:B:17:VAL:HA	1:B:21:PHE:CD2	0.45	2.46	13	12
1:A:6:LEU:HD12	1:A:6:LEU:N	0.45	2.25	3	1
1:A:73:PHE:O	1:B:94:GLY:C	0.45	2.55	11	7
1:A:73:PHE:HB3	1:B:97:LYS:CE	0.45	2.41	5	1
1:B:27:GLU:CG	1:B:34:ASN:ND2	0.45	2.79	15	2
1:B:49:LEU:HD13	1:B:50:LEU:N	0.45	2.26	8	1
1:A:1:MET:CG	1:B:42:ALA:HB3	0.45	2.35	10	1
1:A:50:LEU:HD11	1:A:89:LYS:HB2	0.45	1.88	11	1
1:B:71:LEU:HD13	1:B:72:ARG:N	0.45	2.26	11	2
1:A:20:PHE:CZ	1:A:38:PHE:CD2	0.45	3.05	13	1
1:B:33:LEU:HD22	1:B:37:GLU:HG3	0.45	1.87	13	1
1:A:75:GLU:OE1	1:A:77:TRP:NE1	0.45	2.49	18	3
1:B:71:LEU:HD23	1:B:73:PHE:O	0.45	2.10	18	1
1:A:69:SER:O	1:A:79:LEU:CD2	0.45	2.65	13	4
1:A:39:LYS:HE2	1:A:63:LEU:HD21	0.45	1.87	2	1
1:B:77:TRP:O	1:B:80:ILE:CG2	0.45	2.65	20	13
1:A:32:SER:HB3	1:A:71:LEU:CB	0.45	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:76:TYR:CD2	1:B:94:GLY:HA3	0.45	2.46	16	6
1:B:51:LYS:HG2	1:B:53:VAL:N	0.45	2.26	6	7
1:B:32:SER:OG	1:B:73:PHE:CZ	0.45	2.66	6	1
1:B:89:LYS:HG2	1:B:90:GLU:N	0.45	2.26	9	4
1:A:1:MET:CG	1:B:39:LYS:O	0.45	2.64	17	3
1:B:50:LEU:HD13	1:B:93:LEU:HB2	0.45	1.88	11	1
1:A:83:LEU:HD12	1:B:87:VAL:CG2	0.45	2.42	14	1
1:B:42:ALA:CB	1:B:59:LYS:CG	0.45	2.95	16	1
1:A:71:LEU:HB3	1:A:75:GLU:HB2	0.45	1.88	18	1
1:A:42:ALA:O	1:A:46:LEU:CB	0.45	2.64	17	4
1:A:23:PHE:CZ	1:A:38:PHE:HB2	0.45	2.46	11	6
1:A:5:THR:CG2	1:B:89:LYS:HD2	0.45	2.42	6	1
1:A:34:ASN:C	1:A:35:ILE:HD13	0.45	2.31	16	2
1:A:6:LEU:HD23	1:A:10:GLU:CD	0.45	2.30	17	1
1:A:26:ARG:HG3	1:A:37:GLU:HG3	0.45	1.88	19	1
1:B:23:PHE:CE1	1:B:33:LEU:HB2	0.45	2.46	20	1
1:B:33:LEU:CD2	1:B:72:ARG:HD3	0.45	2.42	20	1
1:A:16:VAL:CG1	1:A:83:LEU:HD21	0.45	2.42	12	2
1:A:77:TRP:CD1	1:A:77:TRP:C	0.45	2.90	7	15
1:B:46:LEU:HB3	1:B:47:PRO:HD3	0.45	1.88	6	6
1:A:5:THR:OG1	1:B:51:LYS:HA	0.45	2.12	7	5
1:B:23:PHE:CE1	1:B:70:GLU:HB2	0.45	2.47	3	1
1:B:52:ASP:O	1:B:53:VAL:HB	0.45	2.11	11	6
1:B:75:GLU:CA	1:B:75:GLU:OE1	0.45	2.65	3	1
1:A:80:ILE:HG23	1:A:81:GLY:N	0.45	2.27	18	5
1:A:92:ALA:O	1:A:95:ILE:CG2	0.45	2.65	8	1
1:B:26:ARG:NE	1:B:36:ASN:ND2	0.45	2.63	8	1
1:A:7:THR:OG1	1:B:45:GLN:NE2	0.45	2.50	16	3
1:A:49:LEU:N	1:A:49:LEU:HD12	0.45	2.25	10	1
1:B:33:LEU:CG	1:B:70:GLU:OE2	0.45	2.65	13	1
1:A:82:GLU:HA	1:A:85:LYS:CD	0.45	2.42	1	3
1:A:71:LEU:HG	1:A:75:GLU:HB2	0.45	1.89	4	4
1:A:89:LYS:CG	1:B:6:LEU:CD1	0.45	2.95	4	1
1:A:62:THR:OG1	1:B:2:ALA:CB	0.45	2.65	6	2
1:A:71:LEU:C	1:A:72:ARG:HD2	0.45	2.32	20	5
1:B:34:ASN:OD1	1:B:35:ILE:CD1	0.45	2.65	7	5
1:A:49:LEU:HD13	1:A:50:LEU:N	0.45	2.26	8	1
1:A:51:LYS:CD	1:B:5:THR:HB	0.45	2.42	18	3
1:A:54:GLY:HA2	1:B:4:GLU:CG	0.45	2.42	8	3
1:B:85:LYS:O	1:B:89:LYS:NZ	0.45	2.49	17	5
1:A:46:LEU:HD21	1:A:54:GLY:O	0.45	2.11	19	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:45:GLN:HG3	1:B:7:THR:HG23	0.45	1.87	14	1
1:B:48:HIS:CB	1:B:51:LYS:HB2	0.45	2.40	20	3
1:A:80:ILE:HD12	1:B:87:VAL:HB	0.45	1.87	19	1
1:A:6:LEU:CD2	1:B:90:GLU:CG	0.45	2.95	15	3
1:A:52:ASP:O	1:A:53:VAL:HB	0.45	2.11	11	6
1:A:73:PHE:CE1	1:A:75:GLU:HB2	0.45	2.47	20	3
1:B:67:GLN:NE2	1:B:68:ASP:CA	0.45	2.80	5	1
1:A:50:LEU:HD21	1:B:6:LEU:HD11	0.45	1.88	11	1
1:B:45:GLN:HA	1:B:48:HIS:CE1	0.45	2.47	13	3
1:A:23:PHE:CZ	1:A:41:LEU:CD2	0.45	3.00	13	2
1:A:48:HIS:CD2	1:B:6:LEU:HB2	0.45	2.47	17	1
1:B:20:PHE:CE2	1:B:23:PHE:CD2	0.45	3.05	19	1
1:B:16:VAL:CG1	1:B:83:LEU:HD21	0.45	2.42	1	2
1:A:92:ALA:O	1:A:95:ILE:HG12	0.45	2.12	4	6
1:A:29:ARG:CG	1:A:30:LYS:N	0.45	2.79	5	3
1:A:47:PRO:HA	1:A:51:LYS:CE	0.45	2.42	4	4
1:A:89:LYS:NZ	1:A:89:LYS:HB3	0.45	2.27	7	3
1:B:3:ALA:HB1	1:B:7:THR:OG1	0.45	2.12	8	1
1:A:39:LYS:O	1:B:1:MET:CG	0.45	2.65	17	2
1:B:73:PHE:CE2	1:B:75:GLU:HG2	0.45	2.46	15	1
1:A:20:PHE:CE1	1:A:23:PHE:CZ	0.45	3.04	18	1
1:B:75:GLU:OE1	1:B:77:TRP:CZ2	0.45	2.70	19	1
1:A:23:PHE:CD1	1:A:37:GLU:HG3	0.45	2.47	17	7
1:A:37:GLU:O	1:A:40:GLU:CG	0.45	2.65	17	6
1:A:59:LYS:O	1:A:63:LEU:CD1	0.45	2.65	3	8
1:B:37:GLU:O	1:B:40:GLU:CG	0.45	2.65	17	7
1:A:12:ALA:HA	1:B:15:THR:HG21	0.45	1.89	2	1
1:B:75:GLU:O	1:B:77:TRP:N	0.45	2.50	2	5
1:A:43:THR:HG23	1:B:1:MET:CE	0.45	2.42	19	4
1:B:32:SER:CB	1:B:71:LEU:HA	0.45	2.41	16	3
1:B:35:ILE:O	1:B:39:LYS:HG2	0.45	2.12	10	6
1:A:27:GLU:HG2	1:A:34:ASN:ND2	0.45	2.27	15	2
1:A:47:PRO:HA	1:A:51:LYS:HE3	0.45	1.89	7	2
1:B:45:GLN:OE1	1:B:51:LYS:CE	0.45	2.65	8	1
1:B:26:ARG:NE	1:B:36:ASN:CB	0.45	2.80	12	1
1:A:82:GLU:O	1:B:9:LEU:CD1	0.45	2.65	14	1
1:A:91:LYS:O	1:B:74:SER:CB	0.45	2.65	18	2
1:A:5:THR:CG2	1:B:89:LYS:HB3	0.45	2.40	19	1
1:A:45:GLN:O	1:A:46:LEU:C	0.45	2.55	19	2
1:A:7:THR:HG23	1:B:45:GLN:HE22	0.45	1.71	20	1
1:A:33:LEU:CD2	1:A:72:ARG:HD2	0.45	2.42	20	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:77:TRP:CD1	1:B:77:TRP:C	0.45	2.90	2	17
1:B:77:TRP:O	1:B:80:ILE:HB	0.45	2.12	1	4
1:B:49:LEU:N	1:B:49:LEU:HD22	0.45	2.27	3	1
1:A:33:LEU:C	1:A:33:LEU:CD2	0.45	2.83	5	3
1:B:58:GLU:O	1:B:62:THR:CB	0.45	2.65	5	1
1:A:89:LYS:CD	1:B:5:THR:CG2	0.45	2.95	17	2
1:A:95:ILE:HD13	1:A:95:ILE:O	0.45	2.12	6	1
1:A:42:ALA:HB1	1:A:59:LYS:CD	0.45	2.42	7	1
1:A:85:LYS:HE2	1:B:7:THR:CG2	0.45	2.42	7	1
1:A:45:GLN:OE1	1:A:51:LYS:CE	0.45	2.65	8	1
1:A:45:GLN:HA	1:A:48:HIS:CE1	0.45	2.47	13	2
1:A:70:GLU:C	1:A:79:LEU:HD11	0.45	2.32	17	2
1:A:6:LEU:HD11	1:B:90:GLU:CG	0.45	2.42	17	1
1:A:89:LYS:NZ	1:B:6:LEU:HD11	0.45	2.26	18	1
1:A:91:LYS:CB	1:B:76:TYR:HB2	0.44	2.42	2	1
1:B:95:ILE:HD13	1:B:95:ILE:O	0.44	2.12	6	1
1:A:67:GLN:HG2	1:A:68:ASP:N	0.44	2.26	9	3
1:A:95:ILE:O	1:A:98:LYS:CG	0.44	2.65	14	5
1:A:75:GLU:OE1	1:A:77:TRP:CZ2	0.44	2.70	19	2
1:A:85:LYS:HE3	1:B:3:ALA:CB	0.44	2.42	13	2
1:A:9:LEU:CD1	1:B:82:GLU:O	0.44	2.65	14	1
1:A:75:GLU:OE1	1:A:78:ARG:CG	0.44	2.65	18	4
1:B:95:ILE:O	1:B:98:LYS:CG	0.44	2.66	14	3
1:A:73:PHE:CE2	1:A:75:GLU:HG2	0.44	2.46	15	1
1:B:33:LEU:C	1:B:33:LEU:CD2	0.44	2.85	18	3
1:A:21:PHE:CZ	1:B:9:LEU:CD1	0.44	3.00	17	2
1:A:84:ALA:HB2	1:B:80:ILE:O	0.44	2.11	17	1
1:A:46:LEU:N	1:A:47:PRO:CD	0.44	2.80	20	2
1:B:20:PHE:CE1	1:B:23:PHE:CZ	0.44	3.05	18	1
1:B:42:ALA:HA	1:B:45:GLN:HG2	0.44	1.89	1	1
1:A:49:LEU:HD22	1:A:49:LEU:N	0.44	2.27	3	2
1:B:6:LEU:HD12	1:B:6:LEU:N	0.44	2.26	3	1
1:A:85:LYS:CE	1:B:7:THR:HG21	0.44	2.42	5	2
1:B:41:LEU:O	1:B:43:THR:N	0.44	2.50	19	5
1:B:67:GLN:NE2	1:B:68:ASP:N	0.44	2.66	17	3
1:B:85:LYS:O	1:B:89:LYS:HE3	0.44	2.12	6	3
1:A:33:LEU:HB2	1:A:70:GLU:CG	0.44	2.41	19	4
1:B:33:LEU:HB2	1:B:70:GLU:CG	0.44	2.42	7	3
1:A:5:THR:CG2	1:A:6:LEU:CD1	0.44	2.93	18	2
1:A:26:ARG:HG2	1:A:37:GLU:CG	0.44	2.42	14	1
1:A:6:LEU:HB2	1:B:48:HIS:CD2	0.44	2.46	17	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:26:ARG:HG3	1:B:37:GLU:HG3	0.44	1.89	19	1
1:A:86:GLU:O	1:A:90:GLU:CG	0.44	2.65	9	7
1:B:9:LEU:O	1:B:12:ALA:N	0.44	2.50	18	11
1:A:39:LYS:HA	1:B:1:MET:CG	0.44	2.42	16	5
1:A:3:ALA:HB1	1:B:85:LYS:HZ2	0.44	1.71	4	1
1:A:29:ARG:HG2	1:A:30:LYS:N	0.44	2.27	5	6
1:A:67:GLN:NE2	1:A:68:ASP:HA	0.44	2.27	5	1
1:B:46:LEU:O	1:B:51:LYS:HG2	0.44	2.12	20	2
1:A:24:ALA:CB	1:A:72:ARG:HD3	0.44	2.43	11	1
1:B:46:LEU:HD21	1:B:54:GLY:O	0.44	2.12	11	2
1:A:53:VAL:N	1:B:4:GLU:OE2	0.44	2.50	13	1
1:B:24:ALA:HB2	1:B:70:GLU:OE2	0.44	2.13	14	1
1:B:21:PHE:HB3	1:B:70:GLU:OE2	0.44	2.12	16	1
1:B:85:LYS:O	1:B:89:LYS:HE2	0.44	2.12	17	1
1:A:73:PHE:CB	1:B:97:LYS:HE2	0.44	2.42	19	1
1:A:10:GLU:O	1:A:13:ILE:CG2	0.44	2.65	3	13
1:B:6:LEU:CD1	1:B:10:GLU:CB	0.44	2.95	2	1
1:B:79:LEU:HA	1:B:82:GLU:CG	0.44	2.42	15	2
1:B:49:LEU:CD2	1:B:50:LEU:N	0.44	2.80	4	1
1:A:58:GLU:O	1:A:62:THR:CB	0.44	2.66	5	1
1:B:33:LEU:CB	1:B:70:GLU:OE1	0.44	2.66	5	2
1:A:1:MET:HE3	1:B:43:THR:HG23	0.44	1.90	6	1
1:A:86:GLU:CG	1:B:9:LEU:HB2	0.44	2.43	6	6
1:B:92:ALA:O	1:B:95:ILE:CG2	0.44	2.66	8	1
1:A:9:LEU:N	1:A:9:LEU:CD2	0.44	2.74	13	2
1:A:1:MET:HB3	1:B:42:ALA:HB3	0.44	1.89	14	1
1:B:21:PHE:CZ	1:B:79:LEU:HB3	0.44	2.47	14	1
1:A:33:LEU:CD2	1:A:72:ARG:HD3	0.44	2.43	20	1
1:A:18:SER:O	1:A:22:THR:HG21	0.44	2.12	20	8
1:B:10:GLU:O	1:B:13:ILE:CG2	0.44	2.66	3	12
1:A:33:LEU:O	1:A:67:GLN:O	0.44	2.36	12	5
1:A:4:GLU:HB3	1:B:54:GLY:CA	0.44	2.42	6	2
1:A:62:THR:CB	1:B:2:ALA:CB	0.44	2.95	6	1
1:B:27:GLU:HG2	1:B:34:ASN:ND2	0.44	2.26	15	2
1:A:5:THR:HG22	1:B:89:LYS:HD3	0.44	1.90	9	1
1:A:4:GLU:CA	1:A:4:GLU:OE1	0.44	2.65	17	2
1:B:20:PHE:CZ	1:B:38:PHE:CD2	0.44	3.06	13	1
1:A:6:LEU:CB	1:A:10:GLU:HB3	0.44	2.43	14	1
1:B:71:LEU:HD21	1:B:76:TYR:CE1	0.44	2.48	14	1
1:A:33:LEU:HD22	1:A:70:GLU:CB	0.44	2.38	15	1
1:A:69:SER:HA	1:A:78:ARG:HB3	0.44	1.89	20	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:32:SER:HB2	1:B:71:LEU:CB	0.44	2.43	20	1
1:A:59:LYS:HA	1:B:2:ALA:N	0.44	2.28	6	3
1:A:77:TRP:O	1:A:80:ILE:CG2	0.44	2.66	13	12
1:B:24:ALA:CB	1:B:72:ARG:NH1	0.44	2.81	3	2
1:A:67:GLN:NE2	1:A:68:ASP:OD1	0.44	2.51	4	2
1:A:85:LYS:HE2	1:B:7:THR:HG21	0.44	1.89	5	1
1:B:29:ARG:CG	1:B:30:LYS:N	0.44	2.81	20	2
1:B:67:GLN:CG	1:B:68:ASP:N	0.44	2.80	8	5
1:B:39:LYS:HD2	1:B:63:LEU:HD11	0.44	1.88	8	1
1:A:6:LEU:HD21	1:B:48:HIS:NE2	0.44	2.27	9	1
1:A:45:GLN:NE2	1:A:45:GLN:N	0.44	2.65	14	2
1:B:16:VAL:HG11	1:B:83:LEU:HD21	0.44	1.89	11	2
1:A:4:GLU:OE1	1:A:4:GLU:N	0.44	2.50	17	1
1:A:9:LEU:CD1	1:B:21:PHE:CZ	0.44	3.01	17	2
1:B:33:LEU:CD2	1:B:72:ARG:HD2	0.44	2.43	20	1
1:A:75:GLU:CD	1:A:77:TRP:CZ2	0.44	2.91	2	4
1:A:2:ALA:CB	1:B:62:THR:OG1	0.44	2.66	6	2
1:A:71:LEU:HB3	1:A:75:GLU:CB	0.44	2.43	18	1
1:A:85:LYS:CG	1:B:5:THR:O	0.44	2.66	19	1
1:A:46:LEU:O	1:A:51:LYS:HG2	0.44	2.13	20	1
1:B:46:LEU:HD12	1:B:47:PRO:HD3	0.44	1.89	20	1
1:A:70:GLU:CB	1:A:79:LEU:HD21	0.44	2.42	2	1
1:A:75:GLU:CA	1:A:75:GLU:OE1	0.44	2.65	3	1
1:A:55:SER:CB	1:A:58:GLU:CB	0.44	2.96	4	1
1:B:33:LEU:CD2	1:B:34:ASN:O	0.44	2.66	10	3
1:A:7:THR:O	1:A:10:GLU:HG2	0.44	2.13	12	6
1:B:33:LEU:O	1:B:67:GLN:O	0.44	2.35	12	6
1:A:2:ALA:CB	1:B:62:THR:CB	0.44	2.96	6	1
1:A:33:LEU:CB	1:A:70:GLU:HG3	0.44	2.43	19	5
1:B:21:PHE:O	1:B:72:ARG:CD	0.44	2.66	13	1
1:A:86:GLU:HB3	1:B:10:GLU:HA	0.44	1.90	17	1
1:B:24:ALA:N	1:B:33:LEU:CD1	0.44	2.77	18	1
1:A:5:THR:O	1:B:85:LYS:CG	0.44	2.66	19	1
1:B:62:THR:CG2	1:B:66:ASN:OD1	0.44	2.66	17	5
1:A:50:LEU:HD11	1:A:89:LYS:C	0.44	2.34	2	1
1:B:75:GLU:CD	1:B:77:TRP:CZ2	0.44	2.92	2	2
1:A:84:ALA:CB	1:B:80:ILE:CG1	0.44	2.95	5	1
1:A:4:GLU:CG	1:B:54:GLY:HA2	0.44	2.43	14	3
1:B:72:ARG:NE	1:B:72:ARG:HA	0.44	2.27	13	2
1:A:95:ILE:HG23	1:B:74:SER:CA	0.44	2.43	13	1
1:B:21:PHE:CD1	1:B:79:LEU:HD22	0.44	2.48	13	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:95:ILE:HG22	1:B:74:SER:HB3	0.44	1.89	14	1
1:B:76:TYR:HD1	1:B:79:LEU:HD13	0.44	1.72	17	1
1:A:32:SER:HB2	1:A:71:LEU:CB	0.44	2.43	20	1
1:A:13:ILE:O	1:A:17:VAL:CG1	0.43	2.66	7	11
1:A:91:LYS:CB	1:B:76:TYR:CB	0.43	2.96	2	1
1:A:16:VAL:HG23	1:B:9:LEU:CG	0.43	2.42	6	2
1:A:4:GLU:N	1:A:4:GLU:OE1	0.43	2.51	4	1
1:B:70:GLU:OE1	1:B:79:LEU:CD2	0.43	2.66	4	1
1:A:1:MET:HG2	1:B:39:LYS:CA	0.43	2.43	7	2
1:A:59:LYS:HA	1:B:2:ALA:CB	0.43	2.42	7	2
1:A:70:GLU:OE2	1:A:72:ARG:NE	0.43	2.51	10	3
1:A:38:PHE:O	1:A:41:LEU:CG	0.43	2.66	18	2
1:A:17:VAL:HA	1:A:21:PHE:CD2	0.43	2.48	13	3
1:A:42:ALA:CB	1:B:4:GLU:CG	0.43	2.95	11	1
1:A:23:PHE:CB	1:A:33:LEU:CD2	0.43	2.96	14	1
1:A:52:ASP:O	1:A:53:VAL:CG2	0.43	2.66	14	1
1:A:5:THR:CG2	1:B:89:LYS:CD	0.43	2.95	17	1
1:B:71:LEU:CG	1:B:75:GLU:HB2	0.43	2.44	8	4
1:B:92:ALA:O	1:B:95:ILE:CG1	0.43	2.66	4	6
1:A:15:THR:O	1:A:19:THR:N	0.43	2.51	3	3
1:A:33:LEU:HB3	1:A:70:GLU:OE1	0.43	2.12	15	2
1:A:33:LEU:CB	1:A:70:GLU:OE1	0.43	2.65	5	2
1:B:38:PHE:O	1:B:41:LEU:CG	0.43	2.66	18	2
1:A:82:GLU:OE2	1:A:85:LYS:NZ	0.43	2.50	10	1
1:A:26:ARG:NE	1:A:36:ASN:CB	0.43	2.81	12	1
1:A:33:LEU:CG	1:A:70:GLU:OE2	0.43	2.66	13	1
1:B:66:ASN:OD1	1:B:66:ASN:N	0.43	2.50	14	1
1:A:42:ALA:HB3	1:A:59:LYS:CG	0.43	2.43	16	1
1:A:32:SER:CB	1:A:68:ASP:OD1	0.43	2.67	17	2
1:B:71:LEU:HB3	1:B:75:GLU:HB2	0.43	1.90	18	1
1:A:33:LEU:HG	1:A:70:GLU:CG	0.43	2.43	20	1
1:A:62:THR:CG2	1:A:66:ASN:OD1	0.43	2.67	5	4
1:B:63:LEU:O	1:B:67:GLN:N	0.43	2.51	3	1
1:B:33:LEU:HB3	1:B:70:GLU:OE1	0.43	2.14	5	2
1:B:89:LYS:NZ	1:B:93:LEU:HB3	0.43	2.28	5	1
1:B:95:ILE:O	1:B:95:ILE:CD1	0.43	2.67	6	1
1:A:39:LYS:HD2	1:A:63:LEU:HD11	0.43	1.88	8	1
1:B:45:GLN:N	1:B:45:GLN:NE2	0.43	2.66	14	2
1:A:6:LEU:CD1	1:B:89:LYS:HG3	0.43	2.43	12	2
1:A:86:GLU:OE1	1:B:13:ILE:CB	0.43	2.66	20	2
1:A:59:LYS:HE3	1:B:1:MET:HE2	0.43	1.90	16	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:42:ALA:HB3	1:B:59:LYS:HD2	0.43	1.90	19	1
1:A:89:LYS:CD	1:B:5:THR:C	0.43	2.87	20	1
1:A:51:LYS:HA	1:B:5:THR:CG2	0.43	2.44	4	3
1:A:23:PHE:CZ	1:A:33:LEU:HD11	0.43	2.48	2	1
1:A:30:LYS:C	1:A:72:ARG:HB2	0.43	2.34	2	1
1:B:13:ILE:O	1:B:17:VAL:CG1	0.43	2.67	5	9
1:A:89:LYS:NZ	1:B:5:THR:O	0.43	2.51	3	1
1:B:65:VAL:O	1:B:78:ARG:NH1	0.43	2.52	3	1
1:A:6:LEU:HD12	1:B:89:LYS:CG	0.43	2.44	4	1
1:A:70:GLU:OE2	1:A:72:ARG:NH1	0.43	2.51	5	7
1:B:2:ALA:O	1:B:4:GLU:N	0.43	2.51	6	1
1:B:70:GLU:OE2	1:B:72:ARG:NE	0.43	2.51	10	3
1:A:20:PHE:CZ	1:A:41:LEU:CG	0.43	3.02	17	2
1:B:33:LEU:O	1:B:68:ASP:HA	0.43	2.14	9	1
1:A:67:GLN:CD	1:A:68:ASP:N	0.43	2.72	17	1
1:B:89:LYS:CE	1:B:90:GLU:OE1	0.43	2.67	18	1
1:B:7:THR:CB	1:B:9:LEU:CD1	0.43	2.97	20	1
1:A:92:ALA:O	1:A:95:ILE:CG1	0.43	2.67	2	6
1:A:5:THR:O	1:B:89:LYS:NZ	0.43	2.51	3	1
1:A:24:ALA:CB	1:A:72:ARG:NH1	0.43	2.81	3	2
1:B:68:ASP:CB	1:B:78:ARG:HG3	0.43	2.44	11	5
1:A:2:ALA:CB	1:B:59:LYS:HA	0.43	2.43	7	2
1:A:95:ILE:CG2	1:B:73:PHE:C	0.43	2.87	9	3
1:B:26:ARG:CD	1:B:37:GLU:HG2	0.43	2.43	7	1
1:A:35:ILE:O	1:A:39:LYS:HG2	0.43	2.14	19	4
1:A:86:GLU:OE2	1:B:7:THR:N	0.43	2.51	16	2
1:A:45:GLN:NE2	1:B:7:THR:CB	0.43	2.82	9	1
1:A:21:PHE:O	1:A:72:ARG:CD	0.43	2.67	13	1
1:A:72:ARG:NE	1:A:72:ARG:HA	0.43	2.29	13	1
1:B:20:PHE:CZ	1:B:38:PHE:CE2	0.43	3.07	13	1
1:A:10:GLU:O	1:A:13:ILE:N	0.43	2.51	14	2
1:A:83:LEU:HD12	1:B:87:VAL:HG23	0.43	1.91	14	1
1:B:26:ARG:HG2	1:B:37:GLU:CG	0.43	2.43	14	1
1:B:71:LEU:CD2	1:B:76:TYR:CE1	0.43	3.02	14	1
1:B:14:GLU:CG	1:B:15:THR:N	0.43	2.82	15	1
1:A:54:GLY:CA	1:B:4:GLU:HG2	0.43	2.43	16	1
1:A:7:THR:HA	1:B:45:GLN:OE1	0.43	2.14	18	2
1:A:97:LYS:HE2	1:B:73:PHE:CB	0.43	2.43	19	1
1:B:7:THR:OG1	1:B:9:LEU:CD1	0.43	2.66	20	1
1:B:35:ILE:HD13	1:B:63:LEU:CD2	0.43	2.44	20	1
1:A:3:ALA:CB	1:B:85:LYS:HE3	0.43	2.43	15	4

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:53:VAL:O	1:B:55:SER:N	0.43	2.51	14	3
1:A:6:LEU:CD1	1:A:10:GLU:HB3	0.43	2.43	2	1
1:A:6:LEU:CG	1:A:10:GLU:HB3	0.43	2.43	2	1
1:A:49:LEU:CD2	1:A:50:LEU:N	0.43	2.81	4	1
1:B:21:PHE:CD2	1:B:79:LEU:CD2	0.43	3.01	19	2
1:B:36:ASN:O	1:B:39:LYS:HG3	0.43	2.13	10	1
1:B:39:LYS:HE3	1:B:63:LEU:HD11	0.43	1.88	10	1
1:A:4:GLU:OE2	1:B:54:GLY:CA	0.43	2.66	11	1
1:A:20:PHE:CZ	1:A:38:PHE:HA	0.43	2.49	17	2
1:A:24:ALA:HB2	1:A:70:GLU:OE2	0.43	2.13	14	1
1:A:67:GLN:NE2	1:A:68:ASP:OD2	0.43	2.52	17	3
1:B:57:ASP:O	1:B:61:LYS:CG	0.43	2.67	18	2
1:B:66:ASN:N	1:B:66:ASN:OD1	0.43	2.51	15	1
1:A:21:PHE:HB3	1:A:70:GLU:OE2	0.43	2.13	16	1
1:A:54:GLY:O	1:A:59:LYS:CD	0.43	2.67	16	1
1:A:56:LEU:N	1:A:56:LEU:CD2	0.43	2.82	18	1
1:B:71:LEU:HB3	1:B:75:GLU:CB	0.43	2.43	18	1
1:A:70:GLU:OE2	1:A:72:ARG:CD	0.43	2.67	1	1
1:A:33:LEU:HB3	1:A:70:GLU:HG2	0.43	1.90	3	1
1:A:68:ASP:CB	1:A:75:GLU:HG3	0.43	2.44	3	1
1:A:84:ALA:O	1:A:87:VAL:N	0.43	2.52	12	10
1:A:20:PHE:CD2	1:A:21:PHE:CE1	0.43	3.07	4	3
1:A:23:PHE:CE2	1:A:33:LEU:HG	0.43	2.48	15	2
1:A:64:ASP:O	1:A:67:GLN:OE1	0.43	2.36	20	3
1:A:45:GLN:OE1	1:B:7:THR:HA	0.43	2.14	18	3
1:B:35:ILE:CD1	1:B:63:LEU:CD2	0.43	2.95	18	1
1:A:89:LYS:HG2	1:B:5:THR:CG2	0.43	2.44	19	1
1:A:90:GLU:O	1:A:94:GLY:N	0.43	2.50	20	1
1:B:46:LEU:O	1:B:51:LYS:HE2	0.43	2.14	15	3
1:B:71:LEU:CD2	1:B:73:PHE:H	0.43	2.26	15	6
1:A:32:SER:HB3	1:A:73:PHE:CZ	0.43	2.48	4	2
1:B:45:GLN:O	1:B:48:HIS:ND1	0.43	2.52	2	2
1:B:83:LEU:O	1:B:86:GLU:HG2	0.43	2.13	5	4
1:A:34:ASN:HA	1:A:67:GLN:O	0.43	2.14	19	2
1:A:35:ILE:O	1:A:39:LYS:CG	0.43	2.67	9	1
1:A:66:ASN:ND2	1:A:82:GLU:OE1	0.43	2.52	10	1
1:A:67:GLN:NE2	1:A:67:GLN:C	0.43	2.72	11	1
1:B:23:PHE:CB	1:B:33:LEU:CD2	0.43	2.97	14	1
1:B:21:PHE:HA	1:B:23:PHE:CD1	0.43	2.49	18	1
1:B:62:THR:O	1:B:66:ASN:N	0.43	2.50	19	1
1:A:60:MET:O	1:A:63:LEU:CB	0.43	2.66	20	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:82:GLU:HA	1:B:85:LYS:CD	0.43	2.44	1	2
1:B:68:ASP:CB	1:B:75:GLU:HG3	0.43	2.44	3	1
1:A:70:GLU:OE1	1:A:79:LEU:CD2	0.43	2.66	4	1
1:B:84:ALA:O	1:B:87:VAL:N	0.43	2.52	5	8
1:A:71:LEU:HD21	1:A:73:PHE:C	0.43	2.33	17	3
1:A:83:LEU:HD13	1:B:87:VAL:HG21	0.43	1.90	5	1
1:A:7:THR:CG2	1:B:85:LYS:HE2	0.43	2.44	7	1
1:A:87:VAL:CG1	1:A:87:VAL:O	0.43	2.67	7	3
1:A:45:GLN:NE2	1:B:7:THR:OG1	0.43	2.52	9	3
1:A:54:GLY:CA	1:B:4:GLU:OE2	0.43	2.66	11	1
1:A:81:GLY:C	1:A:85:LYS:HZ3	0.43	2.17	13	1
1:B:24:ALA:HB2	1:B:32:SER:HA	0.43	1.91	13	1
1:B:77:TRP:CD1	1:B:78:ARG:HG2	0.43	2.49	13	4
1:A:68:ASP:HB2	1:A:78:ARG:CG	0.43	2.44	15	1
1:A:4:GLU:HG2	1:B:54:GLY:CA	0.43	2.44	16	1
1:B:39:LYS:O	1:B:43:THR:CG2	0.43	2.67	16	1
1:A:86:GLU:HB2	1:B:13:ILE:HD13	0.43	1.91	19	1
1:A:4:GLU:HG3	1:B:54:GLY:HA2	0.43	1.90	20	1
1:A:7:THR:O	1:A:9:LEU:N	0.43	2.52	5	12
1:A:85:LYS:HD2	1:B:3:ALA:CB	0.43	2.44	2	1
1:A:62:THR:O	1:A:66:ASN:N	0.43	2.51	10	5
1:A:39:LYS:HA	1:B:1:MET:SD	0.43	2.54	9	4
1:A:89:LYS:CE	1:A:90:GLU:OE2	0.43	2.67	5	1
1:A:5:THR:OG1	1:B:52:ASP:N	0.43	2.52	15	3
1:B:21:PHE:HB3	1:B:70:GLU:CD	0.43	2.34	11	1
1:B:41:LEU:O	1:B:45:GLN:CG	0.43	2.67	12	1
1:A:4:GLU:OE1	1:B:54:GLY:N	0.43	2.52	13	1
1:A:20:PHE:CZ	1:A:38:PHE:CE2	0.43	3.07	13	1
1:B:55:SER:OG	1:B:58:GLU:CB	0.43	2.67	15	1
1:A:2:ALA:CB	1:B:58:GLU:O	0.43	2.67	18	1
1:A:38:PHE:O	1:A:41:LEU:CB	0.43	2.67	18	1
1:A:89:LYS:CB	1:B:5:THR:HG23	0.43	2.44	18	1
1:A:38:PHE:CZ	1:B:3:ALA:HB2	0.43	2.49	19	1
1:A:86:GLU:OE1	1:B:7:THR:N	0.42	2.52	10	7
1:B:7:THR:O	1:B:9:LEU:N	0.42	2.52	5	8
1:B:91:LYS:O	1:B:94:GLY:N	0.42	2.51	2	1
1:A:4:GLU:OE2	1:B:45:GLN:HB2	0.42	2.14	3	1
1:B:50:LEU:CD1	1:B:90:GLU:OE1	0.42	2.67	4	1
1:B:59:LYS:O	1:B:63:LEU:HD13	0.42	2.14	4	1
1:A:7:THR:HG21	1:B:85:LYS:CE	0.42	2.44	7	2
1:A:95:ILE:O	1:A:95:ILE:CD1	0.42	2.67	6	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:ASN:OD1	1:A:35:ILE:CD1	0.42	2.67	17	4
1:A:42:ALA:CB	1:A:59:LYS:CD	0.42	2.97	7	1
1:A:87:VAL:HG11	1:B:80:ILE:N	0.42	2.29	10	3
1:A:48:HIS:HB2	1:A:51:LYS:CD	0.42	2.44	8	1
1:A:33:LEU:O	1:A:68:ASP:HA	0.42	2.14	9	1
1:A:6:LEU:HD11	1:B:50:LEU:HD21	0.42	1.89	11	1
1:A:20:PHE:CE1	1:A:70:GLU:HB3	0.42	2.48	13	1
1:B:20:PHE:CE1	1:B:70:GLU:HB3	0.42	2.49	13	1
1:B:54:GLY:O	1:B:59:LYS:CD	0.42	2.67	16	1
1:A:4:GLU:OE2	1:B:42:ALA:CB	0.42	2.67	17	1
1:A:86:GLU:OE1	1:B:10:GLU:N	0.42	2.52	17	1
1:A:23:PHE:CD1	1:A:33:LEU:CD1	0.42	3.02	18	1
1:A:7:THR:OG1	1:A:9:LEU:CD1	0.42	2.67	20	1
1:B:66:ASN:CA	1:B:69:SER:OG	0.42	2.67	20	1
1:A:4:GLU:OE2	1:B:45:GLN:CB	0.42	2.68	3	2
1:A:76:TYR:HB2	1:B:91:LYS:CB	0.42	2.44	2	1
1:A:71:LEU:CD2	1:A:73:PHE:H	0.42	2.27	5	3
1:B:70:GLU:OE2	1:B:72:ARG:NH1	0.42	2.52	16	6
1:A:54:GLY:N	1:B:4:GLU:OE1	0.42	2.52	13	2
1:A:73:PHE:CG	1:A:74:SER:N	0.42	2.86	11	2
1:A:41:LEU:O	1:A:45:GLN:HG3	0.42	2.14	8	1
1:A:72:ARG:O	1:B:97:LYS:NZ	0.42	2.52	17	3
1:B:45:GLN:O	1:B:46:LEU:C	0.42	2.57	19	2
1:A:39:LYS:HE3	1:A:63:LEU:CD1	0.42	2.44	10	1
1:B:80:ILE:HG23	1:B:81:GLY:N	0.42	2.29	18	3
1:A:48:HIS:CE1	1:B:6:LEU:HD12	0.42	2.49	14	1
1:A:59:LYS:CG	1:B:4:GLU:OE2	0.42	2.67	17	1
1:B:33:LEU:HG	1:B:70:GLU:CG	0.42	2.44	20	1
1:B:89:LYS:CE	1:B:89:LYS:H	0.42	2.28	20	1
1:A:86:GLU:HG3	1:B:10:GLU:N	0.42	2.29	17	2
1:A:71:LEU:CG	1:A:75:GLU:HB2	0.42	2.45	8	4
1:A:95:ILE:HG21	1:A:98:LYS:HE2	0.42	1.90	3	1
1:B:95:ILE:O	1:B:95:ILE:CG2	0.42	2.66	3	1
1:A:76:TYR:O	1:A:79:LEU:HD12	0.42	2.14	19	5
1:B:87:VAL:CG1	1:B:87:VAL:O	0.42	2.67	7	2
1:A:23:PHE:HB2	1:A:37:GLU:CG	0.42	2.45	9	1
1:A:71:LEU:CD2	1:A:73:PHE:HD1	0.42	2.27	12	1
1:A:70:GLU:CG	1:A:70:GLU:O	0.42	2.68	13	1
1:A:85:LYS:CG	1:B:3:ALA:O	0.42	2.67	14	1
1:B:3:ALA:CB	1:B:7:THR:CG2	0.42	2.97	14	1
1:A:4:GLU:CG	1:B:54:GLY:N	0.42	2.83	16	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:21:PHE:CE1	1:B:9:LEU:HD11	0.42	2.49	16	1
1:A:54:GLY:N	1:B:4:GLU:HG2	0.42	2.29	16	1
1:A:17:VAL:HG13	1:A:18:SER:N	0.42	2.29	17	2
1:A:42:ALA:HB3	1:A:59:LYS:HG3	0.42	1.91	18	1
1:A:9:LEU:CD2	1:B:21:PHE:CE1	0.42	3.03	19	1
1:A:21:PHE:CE1	1:B:9:LEU:CD2	0.42	3.02	19	1
1:B:14:GLU:O	1:B:18:SER:CB	0.42	2.67	19	1
1:B:23:PHE:CG	1:B:33:LEU:CD1	0.42	3.03	19	1
1:A:91:LYS:O	1:A:94:GLY:N	0.42	2.53	2	1
1:B:82:GLU:C	1:B:84:ALA:N	0.42	2.73	4	2
1:A:51:LYS:HG2	1:A:53:VAL:N	0.42	2.29	6	5
1:A:91:LYS:O	1:B:74:SER:CA	0.42	2.68	3	2
1:A:50:LEU:CD1	1:A:90:GLU:OE1	0.42	2.67	4	1
1:B:4:GLU:OE1	1:B:4:GLU:N	0.42	2.52	17	2
1:A:7:THR:HG21	1:B:85:LYS:NZ	0.42	2.29	5	1
1:B:89:LYS:NZ	1:B:93:LEU:CB	0.42	2.83	5	1
1:A:86:GLU:OE1	1:B:10:GLU:CB	0.42	2.67	6	1
1:B:34:ASN:OD1	1:B:36:ASN:N	0.42	2.52	10	2
1:B:6:LEU:H	1:B:6:LEU:HD12	0.42	1.74	7	1
1:A:7:THR:N	1:B:86:GLU:OE2	0.42	2.53	16	2
1:A:3:ALA:CB	1:B:85:LYS:NZ	0.42	2.82	10	1
1:A:75:GLU:OE1	1:A:77:TRP:CH2	0.42	2.72	12	2
1:A:70:GLU:O	1:A:70:GLU:HG2	0.42	2.15	13	1
1:A:33:LEU:CG	1:A:70:GLU:HB3	0.42	2.44	15	1
1:A:97:LYS:CD	1:B:30:LYS:HB2	0.42	2.44	15	1
1:A:5:THR:HB	1:B:51:LYS:CD	0.42	2.44	18	2
1:A:50:LEU:HD22	1:A:93:LEU:CD1	0.42	2.45	18	1
1:A:58:GLU:OE2	1:A:59:LYS:NZ	0.42	2.52	18	1
1:B:58:GLU:OE2	1:B:59:LYS:NZ	0.42	2.52	18	1
1:A:7:THR:HA	1:B:45:GLN:NE2	0.42	2.29	19	1
1:A:89:LYS:HB3	1:B:5:THR:CG2	0.42	2.44	19	1
1:A:58:GLU:OE1	1:A:58:GLU:N	0.42	2.53	20	1
1:A:83:LEU:HA	1:B:9:LEU:HD22	0.42	1.90	20	1
1:B:60:MET:O	1:B:63:LEU:CB	0.42	2.67	20	1
1:B:97:LYS:O	1:B:97:LYS:CD	0.42	2.67	20	1
1:B:68:ASP:HB3	1:B:75:GLU:CB	0.42	2.44	9	3
1:A:75:GLU:O	1:A:78:ARG:N	0.42	2.50	2	2
1:A:10:GLU:HA	1:B:86:GLU:HB2	0.42	1.91	5	1
1:A:11:ALA:C	1:B:15:THR:HG21	0.42	2.35	5	1
1:B:23:PHE:HA	1:B:37:GLU:OE2	0.42	2.14	10	5
1:A:90:GLU:HG3	1:B:6:LEU:CD2	0.42	2.42	7	3

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:20:PHE:CD2	1:B:21:PHE:CD1	0.42	3.08	7	1
1:B:68:ASP:O	1:B:70:GLU:N	0.42	2.53	10	3
1:B:45:GLN:O	1:B:51:LYS:HE2	0.42	2.14	8	2
1:B:61:LYS:NZ	1:B:65:VAL:CG2	0.42	2.83	11	1
1:A:24:ALA:CB	1:A:70:GLU:OE2	0.42	2.67	14	1
1:A:45:GLN:HG3	1:B:7:THR:CG2	0.42	2.45	14	1
1:B:16:VAL:HG21	1:B:83:LEU:CD2	0.42	2.45	14	1
1:B:20:PHE:CZ	1:B:38:PHE:HA	0.42	2.49	17	1
1:A:23:PHE:N	1:A:33:LEU:HD13	0.42	2.29	20	1
1:A:71:LEU:HD13	1:A:79:LEU:CD2	0.42	2.42	20	1
1:B:24:ALA:CA	1:B:33:LEU:HB3	0.42	2.44	20	1
1:A:83:LEU:HD13	1:B:83:LEU:HB3	0.42	1.90	1	1
1:A:15:THR:HG21	1:B:12:ALA:HA	0.42	1.91	2	1
1:B:33:LEU:HD23	1:B:34:ASN:O	0.42	2.13	4	2
1:B:47:PRO:HA	1:B:51:LYS:CE	0.42	2.44	4	5
1:B:89:LYS:CE	1:B:90:GLU:OE2	0.42	2.67	5	1
1:A:4:GLU:CD	1:B:42:ALA:HB1	0.42	2.34	9	1
1:A:42:ALA:HB1	1:B:4:GLU:CD	0.42	2.35	9	1
1:A:86:GLU:HG2	1:B:9:LEU:HB2	0.42	1.90	11	1
1:B:75:GLU:HA	1:B:77:TRP:CE2	0.42	2.50	11	2
1:A:24:ALA:HB3	1:A:72:ARG:CG	0.42	2.42	13	1
1:B:41:LEU:CB	1:B:45:GLN:OE1	0.42	2.68	13	1
1:A:75:GLU:OE1	1:A:78:ARG:HG2	0.42	2.14	14	1
1:B:10:GLU:O	1:B:13:ILE:N	0.42	2.52	14	1
1:B:52:ASP:O	1:B:53:VAL:CG2	0.42	2.67	14	1
1:A:87:VAL:CG1	1:B:79:LEU:HB2	0.42	2.44	17	1
1:A:6:LEU:HD11	1:B:89:LYS:HZ2	0.42	1.73	18	1
1:A:58:GLU:O	1:B:2:ALA:CB	0.42	2.67	18	1
1:A:1:MET:HE2	1:B:43:THR:CG2	0.42	2.43	19	1
1:A:5:THR:C	1:B:89:LYS:CD	0.42	2.88	20	1
1:A:35:ILE:HD13	1:A:63:LEU:CD2	0.42	2.44	20	1
1:B:20:PHE:CD2	1:B:21:PHE:CE1	0.42	3.08	7	5
1:B:67:GLN:NE2	1:B:68:ASP:OD1	0.42	2.52	4	1
1:A:95:ILE:CD1	1:A:98:LYS:HE3	0.42	2.45	6	1
1:B:95:ILE:CD1	1:B:98:LYS:HE3	0.42	2.45	6	1
1:B:33:LEU:CB	1:B:70:GLU:HG3	0.42	2.45	19	3
1:A:91:LYS:HG3	1:A:92:ALA:N	0.42	2.29	18	5
1:A:13:ILE:CG1	1:B:86:GLU:OE1	0.42	2.68	9	1
1:A:35:ILE:CG2	1:A:63:LEU:O	0.42	2.64	11	1
1:A:61:LYS:NZ	1:A:65:VAL:CG2	0.42	2.82	11	1
1:A:95:ILE:O	1:A:98:LYS:HG3	0.42	2.15	11	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:76:TYR:O	1:B:79:LEU:HG	0.42	2.14	13	1
1:A:13:ILE:CB	1:B:86:GLU:OE1	0.42	2.67	14	1
1:A:90:GLU:CG	1:B:6:LEU:CD2	0.42	2.98	15	2
1:B:67:GLN:CD	1:B:68:ASP:N	0.42	2.73	14	1
1:A:30:LYS:HB2	1:B:97:LYS:CD	0.42	2.45	15	1
1:A:89:LYS:HZ2	1:B:6:LEU:HD11	0.42	1.75	18	1
1:B:56:LEU:N	1:B:56:LEU:CD2	0.42	2.82	18	1
1:A:13:ILE:CB	1:B:86:GLU:OE2	0.42	2.67	20	1
1:B:46:LEU:CD1	1:B:47:PRO:HD3	0.42	2.45	20	1
1:B:58:GLU:N	1:B:58:GLU:OE1	0.42	2.52	20	1
1:A:74:SER:CB	1:B:95:ILE:CG2	0.42	2.98	13	2
1:A:91:LYS:HB2	1:B:76:TYR:HB2	0.42	1.92	2	1
1:B:6:LEU:CD1	1:B:10:GLU:HB3	0.42	2.44	2	1
1:A:20:PHE:CD2	1:A:21:PHE:CD1	0.42	3.08	6	1
1:A:67:GLN:CG	1:A:68:ASP:N	0.42	2.83	9	2
1:A:56:LEU:O	1:A:60:MET:N	0.42	2.53	20	2
1:A:10:GLU:HA	1:B:86:GLU:CB	0.42	2.45	9	1
1:A:89:LYS:HD3	1:B:5:THR:HG22	0.42	1.91	10	2
1:A:36:ASN:O	1:A:39:LYS:HG3	0.42	2.15	10	1
1:A:54:GLY:HA3	1:B:4:GLU:HG3	0.42	1.92	10	1
1:A:52:ASP:N	1:B:5:THR:OG1	0.42	2.52	11	2
1:A:23:PHE:CA	1:A:37:GLU:OE1	0.42	2.68	12	1
1:B:68:ASP:C	1:B:70:GLU:N	0.42	2.72	18	3
1:A:29:ARG:HD3	1:A:29:ARG:N	0.42	2.30	15	1
1:B:70:GLU:C	1:B:79:LEU:HD11	0.42	2.35	17	2
1:A:15:THR:O	1:A:18:SER:N	0.42	2.53	16	1
1:B:17:VAL:CG1	1:B:18:SER:N	0.42	2.83	17	1
1:A:71:LEU:CD2	1:A:73:PHE:O	0.42	2.68	18	1
1:B:38:PHE:O	1:B:41:LEU:CB	0.42	2.68	18	1
1:A:6:LEU:HD22	1:A:10:GLU:HB3	0.42	1.92	19	1
1:A:97:LYS:CE	1:B:30:LYS:O	0.42	2.68	3	1
1:B:91:LYS:HG3	1:B:92:ALA:N	0.42	2.30	14	5
1:B:26:ARG:HG3	1:B:37:GLU:CG	0.42	2.45	19	2
1:B:68:ASP:HB3	1:B:75:GLU:HB3	0.42	1.91	13	2
1:A:41:LEU:HD13	1:B:8:GLU:OE1	0.42	2.14	8	1
1:A:89:LYS:HG2	1:A:90:GLU:N	0.42	2.29	8	1
1:B:85:LYS:O	1:B:88:ARG:N	0.42	2.50	9	1
1:A:42:ALA:HA	1:A:45:GLN:CG	0.42	2.45	10	1
1:A:39:LYS:CA	1:B:1:MET:HG2	0.42	2.45	12	1
1:A:33:LEU:CG	1:A:34:ASN:N	0.42	2.83	13	2
1:A:41:LEU:HB3	1:A:45:GLN:OE1	0.42	2.14	13	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:24:ALA:CB	1:B:70:GLU:OE2	0.42	2.67	14	1
1:A:23:PHE:CD1	1:A:23:PHE:O	0.42	2.73	16	1
1:A:42:ALA:CB	1:B:4:GLU:OE2	0.42	2.68	17	1
1:A:6:LEU:HG	1:B:89:LYS:HG2	0.42	1.91	18	1
1:A:7:THR:HB	1:A:9:LEU:HD12	0.42	1.91	20	1
1:A:68:ASP:HB3	1:A:75:GLU:CB	0.42	2.45	9	3
1:B:50:LEU:HD11	1:B:89:LYS:C	0.42	2.35	2	1
1:A:21:PHE:CE2	1:A:79:LEU:HB3	0.42	2.50	3	2
1:A:82:GLU:HB3	1:B:9:LEU:CD1	0.42	2.44	3	4
1:B:23:PHE:CE2	1:B:38:PHE:HB2	0.42	2.49	11	2
1:A:15:THR:HG21	1:B:11:ALA:C	0.42	2.35	5	1
1:A:80:ILE:CG1	1:B:84:ALA:CB	0.42	2.95	5	1
1:A:97:LYS:HE2	1:B:72:ARG:O	0.42	2.15	6	1
1:B:42:ALA:CA	1:B:45:GLN:HB2	0.42	2.44	9	1
1:B:42:ALA:HA	1:B:45:GLN:CG	0.42	2.45	10	1
1:B:57:ASP:O	1:B:61:LYS:N	0.42	2.51	10	1
1:A:1:MET:SD	1:B:59:LYS:CE	0.42	3.08	17	1
1:B:32:SER:CB	1:B:68:ASP:OD1	0.42	2.68	17	2
1:A:69:SER:HA	1:A:78:ARG:CB	0.42	2.44	20	1
1:A:7:THR:OG1	1:B:85:LYS:NZ	0.41	2.53	1	1
1:A:95:ILE:HG13	1:A:95:ILE:O	0.41	2.15	1	1
1:A:39:LYS:HA	1:B:1:MET:CB	0.41	2.45	2	3
1:A:67:GLN:HE21	1:A:68:ASP:H	0.41	1.56	2	1
1:A:65:VAL:O	1:A:78:ARG:NH1	0.41	2.53	3	1
1:A:71:LEU:HD22	1:A:73:PHE:H	0.41	1.75	5	2
1:A:87:VAL:HG21	1:B:83:LEU:HD13	0.41	1.92	5	1
1:A:2:ALA:O	1:A:4:GLU:N	0.41	2.53	6	2
1:A:10:GLU:CB	1:B:86:GLU:OE1	0.41	2.68	6	1
1:A:95:ILE:CA	1:B:73:PHE:O	0.41	2.68	10	1
1:B:30:LYS:N	1:B:30:LYS:HD2	0.41	2.29	10	1
1:B:87:VAL:O	1:B:87:VAL:HG12	0.41	2.15	12	1
1:B:26:ARG:NH2	1:B:37:GLU:OE1	0.41	2.52	13	1
1:B:62:THR:O	1:B:65:VAL:N	0.41	2.53	13	1
1:B:70:GLU:CG	1:B:70:GLU:O	0.41	2.67	13	1
1:B:86:GLU:OE1	1:B:86:GLU:CA	0.41	2.68	13	1
1:A:86:GLU:OE1	1:B:13:ILE:CA	0.41	2.68	14	1
1:B:75:GLU:OE1	1:B:78:ARG:HG2	0.41	2.15	14	1
1:A:90:GLU:CG	1:B:6:LEU:HD11	0.41	2.45	17	1
1:A:20:PHE:CE2	1:A:23:PHE:CD2	0.41	3.07	19	1
1:B:80:ILE:HD13	1:B:80:ILE:O	0.41	2.14	20	1
1:A:35:ILE:CG2	1:A:66:ASN:O	0.41	2.68	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:18:SER:C	1:A:22:THR:HG23	0.41	2.36	6	3
1:B:47:PRO:HA	1:B:51:LYS:HE3	0.41	1.90	6	2
1:A:26:ARG:CD	1:A:37:GLU:HG2	0.41	2.45	7	1
1:A:3:ALA:O	1:B:85:LYS:NZ	0.41	2.50	8	1
1:A:61:LYS:HD3	1:A:61:LYS:N	0.41	2.31	8	1
1:B:42:ALA:O	1:B:46:LEU:CA	0.41	2.69	8	1
1:B:61:LYS:O	1:B:64:ASP:N	0.41	2.52	9	1
1:A:86:GLU:HG3	1:B:9:LEU:C	0.41	2.36	10	1
1:B:55:SER:O	1:B:58:GLU:N	0.41	2.53	10	1
1:B:66:ASN:ND2	1:B:82:GLU:OE1	0.41	2.54	10	1
1:A:7:THR:N	1:B:86:GLU:OE1	0.41	2.53	16	2
1:B:7:THR:O	1:B:10:GLU:HG2	0.41	2.15	12	1
1:A:10:GLU:OE1	1:A:11:ALA:N	0.41	2.54	17	1
1:A:33:LEU:CD2	1:A:34:ASN:O	0.41	2.68	18	1
1:A:14:GLU:O	1:A:18:SER:CB	0.41	2.67	19	1
1:A:97:LYS:CD	1:A:97:LYS:O	0.41	2.68	20	1
1:B:14:GLU:CA	1:B:17:VAL:HG12	0.41	2.45	20	1
1:B:23:PHE:CE2	1:B:70:GLU:HG3	0.41	2.51	20	1
1:A:46:LEU:HB3	1:A:47:PRO:HD3	0.41	1.92	1	3
1:B:70:GLU:OE2	1:B:72:ARG:CD	0.41	2.68	1	1
1:A:39:LYS:CE	1:A:63:LEU:HD21	0.41	2.46	3	2
1:B:73:PHE:CE1	1:B:75:GLU:HB2	0.41	2.50	14	3
1:B:65:VAL:O	1:B:78:ARG:NH2	0.41	2.52	5	1
1:A:5:THR:O	1:B:89:LYS:CE	0.41	2.68	6	1
1:A:13:ILE:HA	1:A:16:VAL:CG1	0.41	2.45	10	2
1:A:42:ALA:CB	1:B:1:MET:HB3	0.41	2.46	7	2
1:A:73:PHE:C	1:B:95:ILE:CG2	0.41	2.89	7	1
1:A:68:ASP:C	1:A:70:GLU:N	0.41	2.72	19	4
1:B:7:THR:HG22	1:B:8:GLU:OE1	0.41	2.15	8	1
1:B:71:LEU:HD11	1:B:76:TYR:N	0.41	2.30	8	1
1:A:95:ILE:CG2	1:B:74:SER:OG	0.41	2.67	9	1
1:A:34:ASN:OD1	1:A:36:ASN:N	0.41	2.53	10	1
1:B:26:ARG:NE	1:B:37:GLU:CG	0.41	2.83	10	1
1:A:26:ARG:NH2	1:A:37:GLU:OE1	0.41	2.53	13	1
1:A:54:GLY:CA	1:B:4:GLU:OE1	0.41	2.67	13	1
1:A:53:VAL:O	1:A:55:SER:N	0.41	2.53	14	1
1:A:17:VAL:CG1	1:A:18:SER:N	0.41	2.82	17	1
1:A:87:VAL:HA	1:A:90:GLU:HB2	0.41	1.91	19	1
1:B:72:ARG:NE	1:B:72:ARG:CA	0.41	2.83	19	1
1:A:21:PHE:O	1:A:33:LEU:CD2	0.41	2.68	20	1
1:B:46:LEU:N	1:B:47:PRO:CD	0.41	2.83	20	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:LEU:CD1	1:A:10:GLU:CB	0.41	2.97	2	1
1:A:50:LEU:O	1:A:50:LEU:HG	0.41	2.16	2	1
1:B:39:LYS:CE	1:B:63:LEU:HD21	0.41	2.44	2	2
1:B:68:ASP:O	1:B:69:SER:C	0.41	2.58	2	1
1:A:1:MET:HB3	1:B:42:ALA:CB	0.41	2.46	14	2
1:A:32:SER:OG	1:A:73:PHE:CZ	0.41	2.67	6	1
1:A:18:SER:C	1:A:22:THR:CG2	0.41	2.89	17	2
1:B:56:LEU:O	1:B:60:MET:N	0.41	2.53	8	2
1:A:6:LEU:HB3	1:A:10:GLU:HB3	0.41	1.92	13	1
1:B:5:THR:CG2	1:B:6:LEU:CD1	0.41	2.95	13	1
1:A:21:PHE:O	1:A:70:GLU:CD	0.41	2.59	17	3
1:B:21:PHE:O	1:B:70:GLU:CD	0.41	2.59	14	2
1:B:67:GLN:NE2	1:B:68:ASP:OD2	0.41	2.53	16	2
1:A:21:PHE:CZ	1:B:9:LEU:HD11	0.41	2.50	17	1
1:A:85:LYS:O	1:A:89:LYS:HE2	0.41	2.15	17	1
1:A:66:ASN:CA	1:A:69:SER:OG	0.41	2.68	20	1
1:B:65:VAL:O	1:B:67:GLN:OE1	0.41	2.38	20	1
1:A:67:GLN:NE2	1:A:68:ASP:H	0.41	2.13	2	1
1:A:68:ASP:O	1:A:69:SER:C	0.41	2.59	2	1
1:B:92:ALA:O	1:B:95:ILE:HG12	0.41	2.15	13	5
1:A:90:GLU:HG2	1:B:6:LEU:CD2	0.41	2.46	13	2
1:A:59:LYS:O	1:A:63:LEU:HD13	0.41	2.16	4	1
1:B:68:ASP:HB2	1:B:78:ARG:HG3	0.41	1.93	5	2
1:B:82:GLU:HA	1:B:85:LYS:HD3	0.41	1.92	15	2
1:B:39:LYS:HE3	1:B:63:LEU:CD1	0.41	2.44	10	1
1:A:41:LEU:O	1:A:45:GLN:CG	0.41	2.68	12	1
1:A:42:ALA:CA	1:A:45:GLN:HG3	0.41	2.45	12	1
1:B:85:LYS:CG	1:B:86:GLU:OE2	0.41	2.69	12	1
1:A:97:LYS:NZ	1:B:72:ARG:O	0.41	2.53	13	2
1:A:1:MET:HG3	1:B:59:LYS:HD2	0.41	1.92	14	1
1:A:16:VAL:HG21	1:A:83:LEU:CD2	0.41	2.46	14	1
1:B:35:ILE:HA	1:B:38:PHE:HB2	0.41	1.92	14	1
1:A:4:GLU:HG2	1:B:54:GLY:N	0.41	2.31	16	1
1:B:53:VAL:O	1:B:53:VAL:HG12	0.41	2.16	17	1
1:A:20:PHE:CD2	1:A:41:LEU:HD21	0.41	2.49	19	1
1:A:21:PHE:O	1:A:70:GLU:HG2	0.41	2.16	19	1
1:A:1:MET:CG	1:B:39:LYS:HA	0.41	2.45	6	2
1:B:71:LEU:HD21	1:B:73:PHE:C	0.41	2.36	5	2
1:A:52:ASP:OD2	1:A:88:ARG:NH2	0.41	2.53	6	1
1:A:89:LYS:CE	1:B:5:THR:O	0.41	2.69	6	1
1:A:42:ALA:O	1:A:46:LEU:CA	0.41	2.69	8	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:41:LEU:O	1:B:45:GLN:HG3	0.41	2.15	8	1
1:B:45:GLN:OE1	1:B:51:LYS:HE3	0.41	2.16	8	1
1:A:7:THR:CB	1:B:45:GLN:NE2	0.41	2.84	9	1
1:A:39:LYS:NZ	1:A:63:LEU:HD11	0.41	2.31	9	1
1:A:74:SER:CA	1:B:95:ILE:HG23	0.41	2.45	13	1
1:A:5:THR:CG2	1:A:6:LEU:N	0.41	2.77	14	1
1:A:87:VAL:CG2	1:B:83:LEU:HD12	0.41	2.45	14	1
1:A:79:LEU:N	1:A:79:LEU:CD1	0.41	2.84	15	1
1:B:71:LEU:HD21	1:B:73:PHE:CG	0.41	2.50	15	1
1:A:10:GLU:N	1:B:86:GLU:OE1	0.41	2.53	17	1
1:A:6:LEU:CA	1:B:86:GLU:OE1	0.41	2.68	18	1
1:A:24:ALA:CA	1:A:33:LEU:HB3	0.41	2.44	20	1
1:A:55:SER:O	1:A:58:GLU:N	0.41	2.54	3	1
1:A:89:LYS:NZ	1:A:93:LEU:HB3	0.41	2.30	5	1
1:B:23:PHE:CE2	1:B:33:LEU:HG	0.41	2.51	5	2
1:B:71:LEU:HD22	1:B:73:PHE:H	0.41	1.75	5	2
1:A:68:ASP:HB3	1:A:75:GLU:HB3	0.41	1.91	13	2
1:B:41:LEU:O	1:B:44:GLN:N	0.41	2.53	14	2
1:B:42:ALA:HA	1:B:45:GLN:HG3	0.41	1.92	8	2
1:B:26:ARG:NE	1:B:36:ASN:HB3	0.41	2.31	12	1
1:B:32:SER:OG	1:B:73:PHE:CE1	0.41	2.67	12	1
1:A:6:LEU:CD2	1:B:90:GLU:HG2	0.41	2.45	13	1
1:A:19:THR:O	1:A:22:THR:OG1	0.41	2.39	13	1
1:A:33:LEU:CD2	1:A:37:GLU:HG3	0.41	2.45	13	1
1:A:38:PHE:CD1	1:A:41:LEU:HG	0.41	2.50	13	1
1:A:57:ASP:O	1:A:61:LYS:CG	0.41	2.69	14	2
1:A:71:LEU:CG	1:A:75:GLU:N	0.41	2.82	15	1
1:B:23:PHE:CD1	1:B:33:LEU:CD1	0.41	3.03	18	1
1:B:50:LEU:CD1	1:B:89:LYS:O	0.41	2.69	2	1
1:B:70:GLU:CB	1:B:79:LEU:HD21	0.41	2.45	2	1
1:A:23:PHE:CE2	1:A:38:PHE:HB2	0.41	2.50	5	4
1:B:38:PHE:CD1	1:B:41:LEU:HG	0.41	2.51	13	2
1:A:3:ALA:HB3	1:B:85:LYS:CE	0.41	2.45	8	1
1:A:42:ALA:HA	1:A:45:GLN:HG3	0.41	1.92	12	1
1:A:4:GLU:OE2	1:B:53:VAL:N	0.41	2.50	13	1
1:A:52:ASP:OD1	1:B:5:THR:CB	0.41	2.69	14	1
1:B:67:GLN:NE2	1:B:68:ASP:H	0.41	2.13	19	2
1:B:75:GLU:OE1	1:B:75:GLU:CA	0.41	2.68	14	1
1:A:23:PHE:HA	1:A:37:GLU:OE2	0.41	2.15	15	1
1:B:15:THR:O	1:B:18:SER:N	0.41	2.53	16	1
1:A:4:GLU:OE2	1:B:42:ALA:HB2	0.41	2.16	17	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:42:ALA:HB2	1:B:4:GLU:OE2	0.41	2.16	17	1
1:B:17:VAL:HG13	1:B:18:SER:N	0.41	2.30	17	2
1:B:71:LEU:HD21	1:B:76:TYR:CE2	0.41	2.49	18	1
1:A:87:VAL:HG23	1:B:13:ILE:HD11	0.41	1.91	19	1
1:A:14:GLU:CA	1:A:17:VAL:HG12	0.41	2.45	20	1
1:A:89:LYS:CE	1:A:89:LYS:H	0.41	2.28	20	1
1:B:7:THR:CB	1:B:9:LEU:HD12	0.41	2.46	20	1
1:A:54:GLY:O	1:A:59:LYS:HD2	0.41	2.16	1	1
1:A:60:MET:O	1:A:63:LEU:CD1	0.41	2.68	1	1
1:A:70:GLU:CD	1:A:71:LEU:N	0.41	2.74	1	1
1:A:61:LYS:HD2	1:A:61:LYS:N	0.41	2.31	2	1
1:A:95:ILE:CG2	1:B:74:SER:HB3	0.41	2.46	13	2
1:B:50:LEU:O	1:B:50:LEU:HG	0.41	2.16	2	1
1:A:80:ILE:CD1	1:B:88:ARG:N	0.41	2.84	3	1
1:A:89:LYS:NZ	1:B:4:GLU:O	0.41	2.52	3	1
1:A:9:LEU:CD2	1:A:9:LEU:N	0.41	2.84	4	1
1:A:45:GLN:OE1	1:B:6:LEU:O	0.41	2.39	4	1
1:A:50:LEU:HD11	1:A:89:LYS:HD2	0.41	1.90	5	1
1:A:82:GLU:O	1:B:9:LEU:HD12	0.41	2.16	5	1
1:A:54:GLY:CA	1:B:4:GLU:HB3	0.41	2.46	6	1
1:B:6:LEU:CD2	1:B:10:GLU:HB3	0.41	2.46	6	1
1:A:41:LEU:O	1:A:42:ALA:C	0.41	2.60	7	2
1:A:48:HIS:CD2	1:B:5:THR:HB	0.41	2.51	7	1
1:A:45:GLN:OE1	1:A:51:LYS:HE3	0.41	2.16	8	1
1:A:4:GLU:OE1	1:B:42:ALA:O	0.41	2.38	9	1
1:A:61:LYS:O	1:A:64:ASP:N	0.41	2.54	9	1
1:B:26:ARG:NE	1:B:37:GLU:HG2	0.41	2.31	10	1
1:A:50:LEU:HD13	1:A:93:LEU:HB2	0.41	1.92	11	1
1:A:71:LEU:O	1:A:72:ARG:NE	0.41	2.52	11	1
1:B:41:LEU:C	1:B:45:GLN:HG2	0.41	2.37	12	1
1:A:4:GLU:OE1	1:B:54:GLY:CA	0.41	2.69	13	1
1:A:7:THR:O	1:B:86:GLU:OE2	0.41	2.38	13	1
1:A:62:THR:O	1:A:65:VAL:N	0.41	2.53	13	1
1:B:19:THR:OG1	1:B:20:PHE:N	0.41	2.53	13	1
1:B:21:PHE:CZ	1:B:79:LEU:HD13	0.41	2.42	13	1
1:B:31:GLY:HA2	1:B:73:PHE:HB3	0.41	1.93	13	1
1:A:74:SER:HB3	1:B:95:ILE:HG22	0.41	1.93	14	1
1:B:23:PHE:HB2	1:B:70:GLU:OE1	0.41	2.16	14	1
1:A:97:LYS:CD	1:B:30:LYS:HB3	0.41	2.46	15	1
1:B:33:LEU:CG	1:B:70:GLU:HB3	0.41	2.46	15	1
1:B:68:ASP:HB2	1:B:78:ARG:CG	0.41	2.46	15	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:9:LEU:HD11	1:B:21:PHE:CE1	0.41	2.51	16	1
1:A:67:GLN:NE2	1:A:68:ASP:CG	0.41	2.75	16	1
1:B:7:THR:O	1:B:10:GLU:HG3	0.41	2.16	17	1
1:A:57:ASP:O	1:A:61:LYS:HG3	0.41	2.16	18	1
1:B:24:ALA:CA	1:B:33:LEU:CD1	0.41	2.92	18	1
1:A:66:ASN:O	1:A:70:GLU:OE2	0.41	2.38	20	1
1:B:21:PHE:O	1:B:33:LEU:CD2	0.41	2.68	20	1
1:B:60:MET:O	1:B:63:LEU:CD1	0.41	2.69	1	1
1:A:76:TYR:CB	1:B:91:LYS:CB	0.41	2.98	2	1
1:A:33:LEU:CB	1:A:70:GLU:HG2	0.41	2.46	3	1
1:A:92:ALA:O	1:A:95:ILE:HG13	0.41	2.16	6	1
1:A:15:THR:O	1:A:19:THR:CG2	0.41	2.67	8	1
1:B:63:LEU:C	1:B:63:LEU:HD23	0.41	2.36	9	1
1:A:9:LEU:HD21	1:B:20:PHE:HB3	0.41	1.92	13	1
1:B:32:SER:HB2	1:B:70:GLU:O	0.41	2.16	13	1
1:B:55:SER:O	1:B:59:LYS:CE	0.41	2.69	13	1
1:A:4:GLU:HB3	1:B:52:ASP:HB2	0.41	1.93	14	1
1:A:89:LYS:HE2	1:B:6:LEU:CG	0.41	2.46	14	1
1:B:23:PHE:HB3	1:B:37:GLU:HB2	0.41	1.92	14	1
1:B:46:LEU:HD23	1:B:54:GLY:H	0.41	1.76	14	1
1:B:29:ARG:N	1:B:29:ARG:HD3	0.41	2.31	15	1
1:A:32:SER:HA	1:A:72:ARG:HG2	0.41	1.92	16	1
1:A:10:GLU:N	1:B:86:GLU:HG3	0.41	2.31	17	1
1:A:21:PHE:CG	1:A:70:GLU:HB2	0.41	2.51	17	1
1:A:5:THR:O	1:B:89:LYS:CD	0.41	2.69	20	1
1:A:74:SER:HB3	1:B:95:ILE:CG2	0.40	2.47	1	1
1:A:10:GLU:O	1:A:13:ILE:CB	0.40	2.69	2	1
1:B:35:ILE:CD1	1:B:35:ILE:C	0.40	2.90	2	1
1:A:6:LEU:HD13	1:B:48:HIS:NE2	0.40	2.31	4	1
1:A:68:ASP:HB2	1:A:78:ARG:HG3	0.40	1.91	5	2
1:A:97:LYS:CE	1:B:73:PHE:HB3	0.40	2.46	5	1
1:A:2:ALA:N	1:B:59:LYS:HA	0.40	2.30	6	1
1:B:41:LEU:O	1:B:42:ALA:C	0.40	2.59	7	1
1:B:48:HIS:HB2	1:B:51:LYS:CG	0.40	2.46	8	1
1:A:53:VAL:HG12	1:A:53:VAL:O	0.40	2.16	10	1
1:A:86:GLU:OE1	1:B:7:THR:O	0.40	2.39	10	1
1:B:83:LEU:O	1:B:86:GLU:HG3	0.40	2.15	11	1
1:A:19:THR:OG1	1:A:20:PHE:N	0.40	2.54	13	1
1:A:35:ILE:HA	1:A:38:PHE:CB	0.40	2.46	13	1
1:B:90:GLU:OE2	1:B:93:LEU:HD22	0.40	2.16	13	1
1:A:1:MET:CB	1:B:39:LYS:HA	0.40	2.46	17	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:39:LYS:O	1:B:1:MET:HG3	0.40	2.16	17	1
1:B:42:ALA:CB	1:B:59:LYS:CD	0.40	2.99	19	1
1:A:1:MET:N	1:B:39:LYS:HA	0.40	2.31	11	3
1:A:76:TYR:HB2	1:B:91:LYS:CA	0.40	2.47	2	1
1:A:23:PHE:CD2	1:A:33:LEU:CD2	0.40	3.02	3	1
1:A:23:PHE:HB2	1:A:37:GLU:CB	0.40	2.47	3	2
1:B:90:GLU:OE1	1:B:93:LEU:HD22	0.40	2.16	4	1
1:A:38:PHE:HA	1:A:41:LEU:HG	0.40	1.94	6	1
1:A:10:GLU:N	1:B:86:GLU:OE2	0.40	2.54	8	1
1:A:57:ASP:O	1:A:61:LYS:N	0.40	2.50	10	1
1:A:45:GLN:OE1	1:B:2:ALA:O	0.40	2.39	12	1
1:A:4:GLU:CD	1:B:54:GLY:N	0.40	2.74	13	1
1:A:86:GLU:O	1:A:90:GLU:HB2	0.40	2.16	14	1
1:B:69:SER:OG	1:B:82:GLU:HG3	0.40	2.17	14	1
1:A:45:GLN:NE2	1:B:7:THR:HA	0.40	2.30	19	1
1:A:89:LYS:HE2	1:B:6:LEU:CD1	0.40	2.43	19	1
1:B:9:LEU:N	1:B:9:LEU:HD23	0.40	2.30	1	2
1:B:35:ILE:HB	1:B:63:LEU:HD23	0.40	1.93	1	1
1:A:35:ILE:CD1	1:A:35:ILE:C	0.40	2.90	2	1
1:A:18:SER:HA	1:A:22:THR:CG2	0.40	2.46	4	1
1:A:82:GLU:C	1:A:84:ALA:N	0.40	2.74	4	1
1:A:85:LYS:NZ	1:B:7:THR:HG21	0.40	2.31	5	1
1:B:58:GLU:O	1:B:62:THR:N	0.40	2.51	5	1
1:A:5:THR:O	1:B:89:LYS:HE3	0.40	2.15	6	1
1:A:41:LEU:CD1	1:B:7:THR:CG2	0.40	2.91	6	1
1:B:60:MET:HA	1:B:63:LEU:CD1	0.40	2.46	6	1
1:A:89:LYS:HG3	1:B:5:THR:CG2	0.40	2.45	8	1
1:B:13:ILE:N	1:B:13:ILE:CD1	0.40	2.84	8	1
1:B:15:THR:O	1:B:19:THR:CG2	0.40	2.66	9	1
1:B:39:LYS:NZ	1:B:63:LEU:HD11	0.40	2.32	9	1
1:B:13:ILE:HA	1:B:16:VAL:CG1	0.40	2.47	10	2
1:B:67:GLN:NE2	1:B:67:GLN:C	0.40	2.74	11	1
1:B:56:LEU:HD23	1:B:56:LEU:O	0.40	2.16	12	1
1:B:57:ASP:O	1:B:61:LYS:HG2	0.40	2.16	12	1
1:B:23:PHE:CZ	1:B:41:LEU:CD2	0.40	3.04	13	1
1:A:74:SER:CA	1:B:91:LYS:O	0.40	2.69	14	1
1:B:34:ASN:C	1:B:35:ILE:HD13	0.40	2.36	16	1
1:A:50:LEU:CD2	1:A:93:LEU:HD13	0.40	2.46	18	1
1:A:72:ARG:N	1:A:72:ARG:HD2	0.40	2.31	20	1
1:A:91:LYS:O	1:B:74:SER:O	0.40	2.39	20	1
1:B:67:GLN:O	1:B:70:GLU:OE2	0.40	2.39	20	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:60:MET:O	1:B:63:LEU:HD13	0.40	2.17	1	1
1:B:6:LEU:CG	1:B:10:GLU:HB3	0.40	2.46	2	1
1:B:66:ASN:HB3	1:B:69:SER:HB3	0.40	1.92	2	1
1:A:51:LYS:CG	1:A:52:ASP:N	0.40	2.84	3	1
1:A:97:LYS:HE3	1:B:73:PHE:CB	0.40	2.46	3	1
1:B:24:ALA:HA	1:B:33:LEU:CD2	0.40	2.45	3	1
1:A:65:VAL:O	1:A:78:ARG:NH2	0.40	2.55	5	1
1:B:24:ALA:O	1:B:26:ARG:N	0.40	2.54	7	1
1:A:42:ALA:CB	1:B:1:MET:HG3	0.40	2.38	9	1
1:A:30:LYS:N	1:A:30:LYS:HD2	0.40	2.30	10	1
1:B:82:GLU:OE2	1:B:85:LYS:NZ	0.40	2.52	10	1
1:A:26:ARG:CD	1:A:36:ASN:CB	0.40	2.99	12	1
1:B:31:GLY:O	1:B:72:ARG:HB2	0.40	2.15	12	1
1:A:86:GLU:OE1	1:A:86:GLU:CA	0.40	2.70	13	1
1:A:86:GLU:OE2	1:B:7:THR:O	0.40	2.39	13	1
1:B:33:LEU:O	1:B:70:GLU:HG2	0.40	2.16	13	1
1:A:3:ALA:O	1:B:85:LYS:CG	0.40	2.70	14	1
1:B:63:LEU:CD2	1:B:64:ASP:N	0.40	2.84	14	1
1:B:71:LEU:CD2	1:B:73:PHE:O	0.40	2.69	18	1
1:A:3:ALA:HB2	1:B:38:PHE:CZ	0.40	2.51	19	1
1:A:7:THR:C	1:A:9:LEU:N	0.40	2.75	19	1
1:B:7:THR:HB	1:B:9:LEU:CD1	0.40	2.46	20	1
1:B:69:SER:HA	1:B:78:ARG:CB	0.40	2.46	20	1
1:A:24:ALA:HA	1:A:33:LEU:CD1	0.40	2.46	3	1
1:A:4:GLU:HB3	1:B:54:GLY:N	0.40	2.32	7	1
1:B:46:LEU:O	1:B:51:LYS:HE3	0.40	2.17	7	1
1:A:4:GLU:OE1	1:B:46:LEU:HA	0.40	2.16	9	1
1:A:56:LEU:HD23	1:A:56:LEU:O	0.40	2.16	12	1
1:B:23:PHE:CD1	1:B:23:PHE:O	0.40	2.74	16	1
1:A:26:ARG:HD2	1:A:37:GLU:CG	0.40	2.46	17	1
1:B:56:LEU:HG	1:B:57:ASP:N	0.40	2.32	17	1
1:A:66:ASN:CB	1:A:69:SER:OG	0.40	2.70	20	1
1:A:93:LEU:HD23	1:A:93:LEU:O	0.40	2.16	20	1

6.3 Torsion angles (i)

6.3.1 Protein backbone (i)

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

was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	96/98 (98%)	62±2 (64±3%)	25±3 (26±4%)	9±2 (9±2%)	1 11
1	B	96/98 (98%)	62±3 (65±3%)	26±3 (27±3%)	9±2 (9±3%)	1 12
All	All	3840/3920 (98%)	2472 (64%)	1016 (26%)	352 (9%)	1 11

All 43 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	95	ILE	20
1	B	95	ILE	20
1	A	41	LEU	19
1	A	53	VAL	19
1	B	53	VAL	19
1	B	51	LYS	17
1	A	4	GLU	16
1	A	51	LYS	16
1	B	4	GLU	16
1	A	29	ARG	13
1	B	29	ARG	13
1	A	28	GLY	11
1	B	28	GLY	11
1	B	54	GLY	10
1	B	5	THR	10
1	B	25	GLY	9
1	B	46	LEU	9
1	A	5	THR	9
1	B	75	GLU	8
1	A	65	VAL	7
1	A	75	GLU	7
1	A	76	TYR	7
1	B	76	TYR	7
1	A	63	LEU	6
1	B	63	LEU	6
1	A	46	LEU	6
1	A	42	ALA	6
1	A	54	GLY	5
1	B	65	VAL	5
1	B	8	GLU	4
1	A	8	GLU	3
1	A	88	ARG	2
1	A	25	GLY	2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	49	LEU	2
1	B	41	LEU	2
1	A	56	LEU	2
1	B	56	LEU	2
1	A	62	THR	1
1	B	88	ARG	1
1	A	7	THR	1
1	B	7	THR	1
1	A	55	SER	1
1	B	55	SER	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	84/84 (100%)	64±3 (76±4%)	20±3 (24±4%)	2 26
1	B	84/84 (100%)	64±3 (76±4%)	20±3 (24±4%)	2 26
All	All	3360/3360 (100%)	2549 (76%)	811 (24%)	2 26

All 114 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	10	GLU	20
1	A	89	LYS	20
1	B	10	GLU	20
1	B	89	LYS	20
1	A	7	THR	19
1	B	7	THR	19
1	A	23	PHE	18
1	A	76	TYR	18
1	B	1	MET	18
1	B	23	PHE	18
1	B	76	TYR	18
1	A	1	MET	17
1	B	48	HIS	16
1	B	71	LEU	16

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	B	97	LYS	16
1	A	48	HIS	15
1	A	71	LEU	15
1	A	97	LYS	15
1	A	13	ILE	14
1	B	13	ILE	14
1	A	35	ILE	14
1	A	79	LEU	14
1	A	57	ASP	13
1	B	67	GLN	13
1	B	79	LEU	13
1	A	4	GLU	12
1	A	67	GLN	12
1	B	4	GLU	12
1	B	57	ASP	12
1	B	35	ILE	12
1	A	73	PHE	11
1	B	73	PHE	10
1	A	33	LEU	9
1	B	33	LEU	9
1	A	63	LEU	8
1	B	61	LYS	8
1	B	63	LEU	8
1	A	5	THR	7
1	A	66	ASN	7
1	B	5	THR	7
1	A	43	THR	7
1	A	53	VAL	6
1	B	53	VAL	6
1	A	6	LEU	6
1	A	20	PHE	6
1	B	20	PHE	6
1	B	51	LYS	6
1	A	32	SER	6
1	A	85	LYS	6
1	B	85	LYS	6
1	A	72	ARG	6
1	B	72	ARG	6
1	A	40	GLU	5
1	B	40	GLU	5
1	A	96	ARG	5
1	B	96	ARG	5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	B	32	SER	5
1	B	66	ASN	5
1	B	74	SER	5
1	A	45	GLN	5
1	B	45	GLN	5
1	A	50	LEU	4
1	B	50	LEU	4
1	A	86	GLU	4
1	B	59	LYS	4
1	B	26	ARG	4
1	A	61	LYS	4
1	A	51	LYS	4
1	B	6	LEU	4
1	A	38	PHE	4
1	B	38	PHE	4
1	A	9	LEU	4
1	B	9	LEU	4
1	B	43	THR	3
1	A	59	LYS	3
1	A	75	GLU	3
1	B	75	GLU	3
1	A	26	ARG	3
1	A	69	SER	3
1	B	69	SER	3
1	A	93	LEU	3
1	B	93	LEU	3
1	A	88	ARG	3
1	B	88	ARG	3
1	A	41	LEU	3
1	B	41	LEU	3
1	B	46	LEU	3
1	A	74	SER	3
1	B	86	GLU	3
1	A	29	ARG	3
1	B	29	ARG	3
1	A	68	ASP	2
1	B	68	ASP	2
1	A	46	LEU	2
1	A	78	ARG	2
1	B	78	ARG	2
1	A	70	GLU	2
1	B	70	GLU	2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	58	GLU	2
1	B	58	GLU	2
1	A	87	VAL	2
1	B	87	VAL	2
1	A	55	SER	1
1	B	55	SER	1
1	A	95	ILE	1
1	B	95	ILE	1
1	A	52	ASP	1
1	B	52	ASP	1
1	A	8	GLU	1
1	A	56	LEU	1
1	B	39	LYS	1
1	B	56	LEU	1
1	A	80	ILE	1
1	B	80	ILE	1

6.3.3 RNA

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates

There are no monosaccharides in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided