



Full wwPDB NMR Structure Validation Report ⓘ

Mar 19, 2026 – 08:05 PM UTC

PDB ID : 1SYM / pdb_00001sym
Title : 3-D SOLUTION STRUCTURE OF REDUCED APO-S100B FROM RAT,
NMR, 20 STRUCTURES
Authors : Drohat, A.C.; Weber, D.J.
Deposited on : 1996-05-29

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

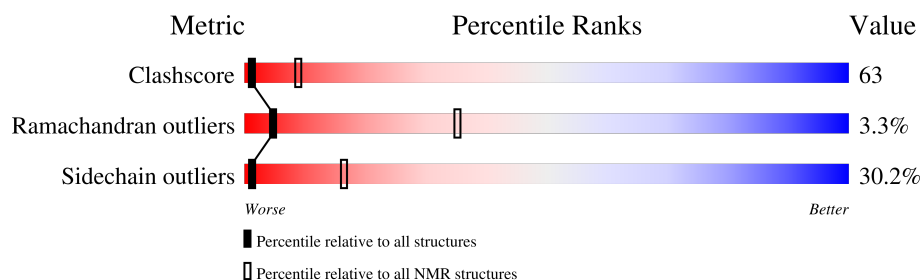
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment 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	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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

Mol	Chain	Length	Quality of chain
1	A	92	
1	B	92	

2 Ensemble composition and analysis

This entry contains 20 models. Model 17 is the overall representative, medoid model (most similar to other models).

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:18, A:25-A:83, B:1-B:18, B:25-B:83 (154)	0.80	17

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 4 clusters and 6 single-model clusters were found.

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

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 2920 atoms, of which 1418 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called S100B.

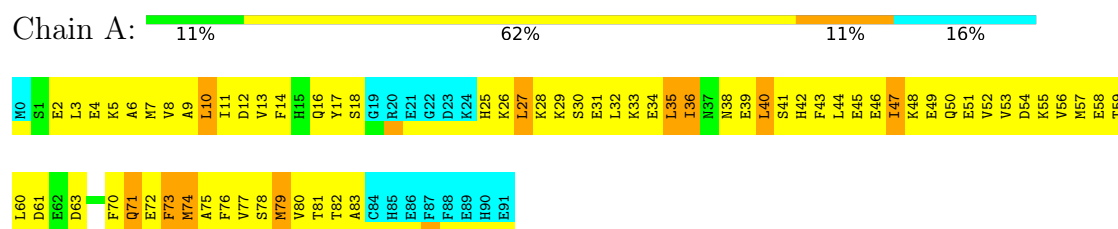
Mol	Chain	Residues	Atoms						Trace
1	A	92	Total	C	H	N	O	S	0
			1460	471	709	118	155	7	
1	B	92	Total	C	H	N	O	S	0
			1460	471	709	118	155	7	

4 Residue-property plots

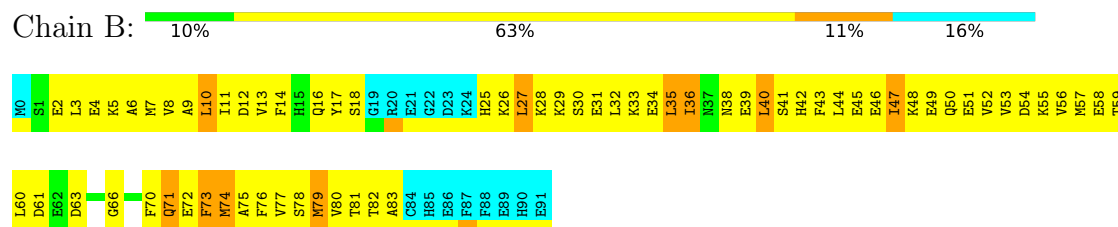
4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: S100B



- Molecule 1: S100B

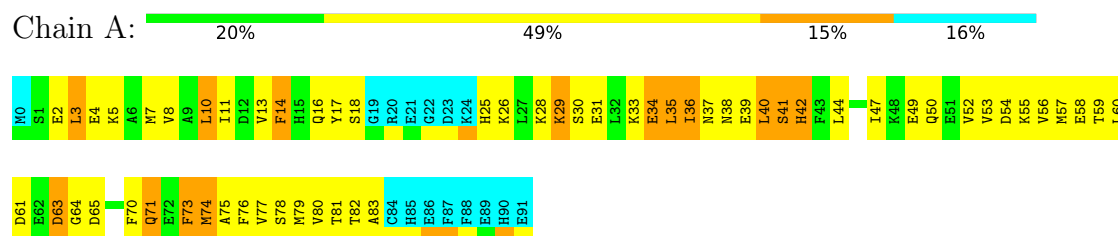


4.2 Scores per residue for each member of the ensemble

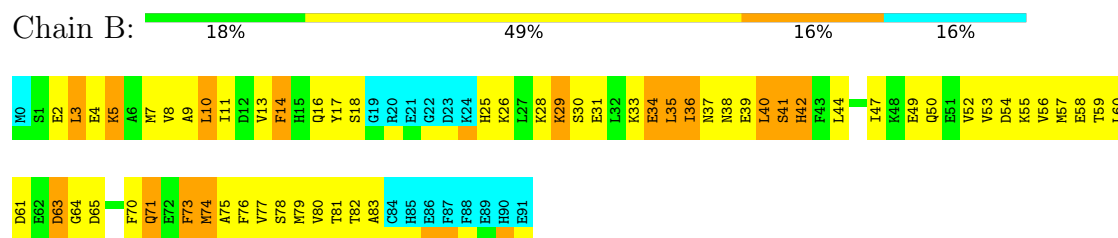
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: S100B

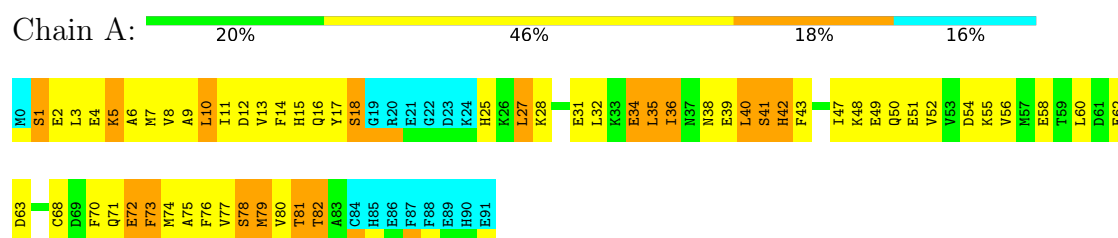


- Molecule 1: S100B

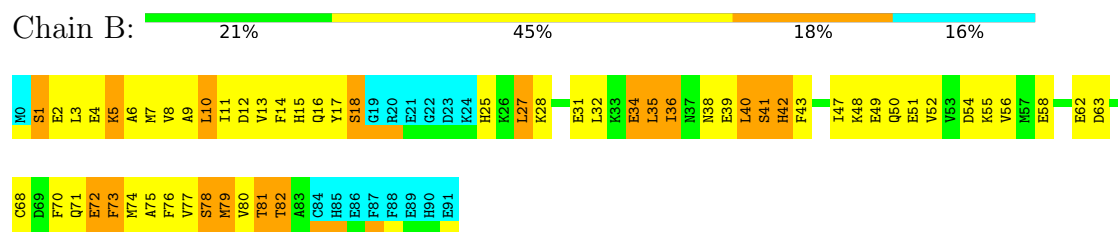


4.2.2 Score per residue for model 2

- Molecule 1: S100B

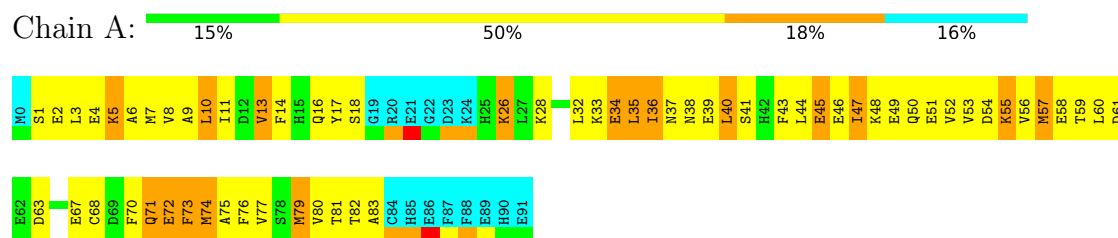


- Molecule 1: S100B

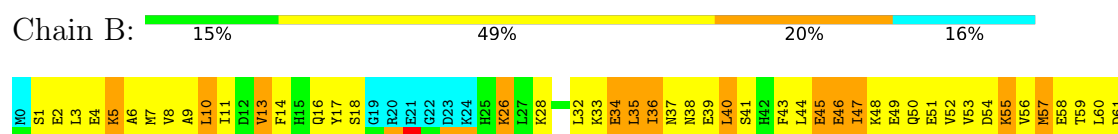


4.2.3 Score per residue for model 3

- Molecule 1: S100B



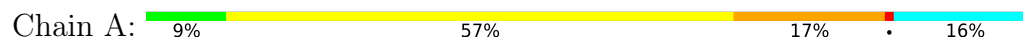
- Molecule 1: S100B



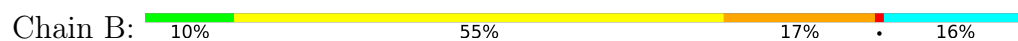


4.2.4 Score per residue for model 4

- Molecule 1: S100B

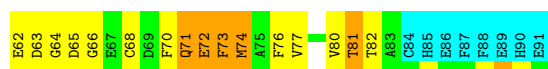
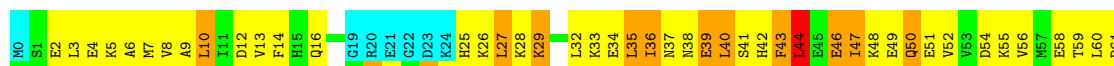
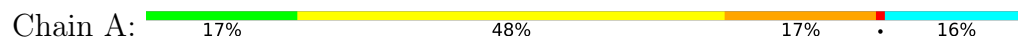


- Molecule 1: S100B

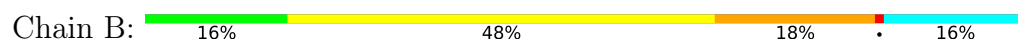


4.2.5 Score per residue for model 5

- Molecule 1: S100B

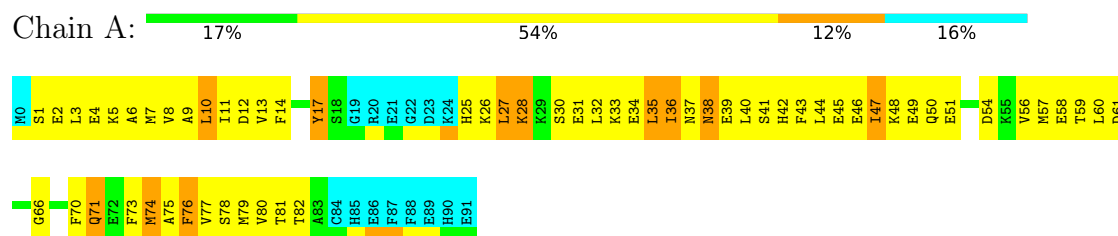


- Molecule 1: S100B

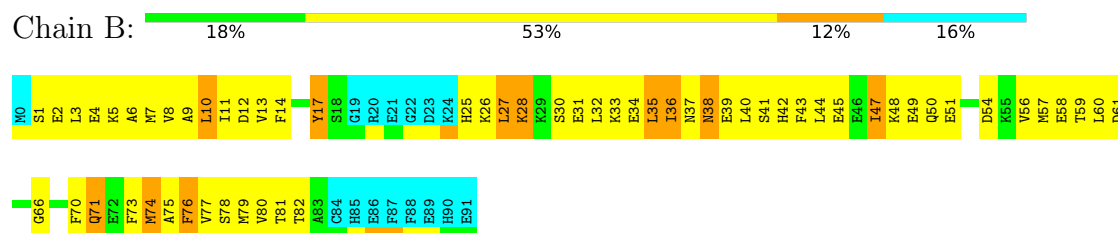


4.2.6 Score per residue for model 6

• Molecule 1: S100B

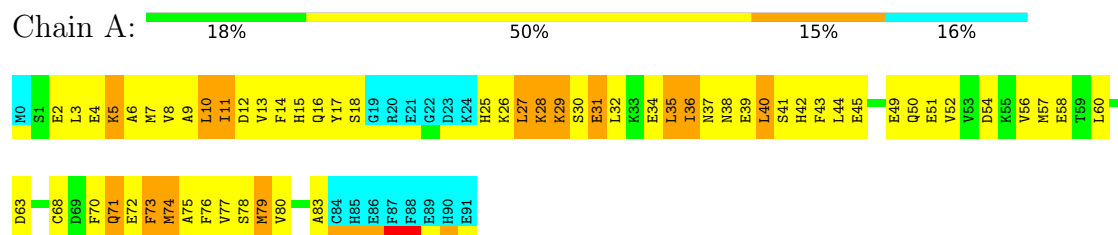


• Molecule 1: S100B

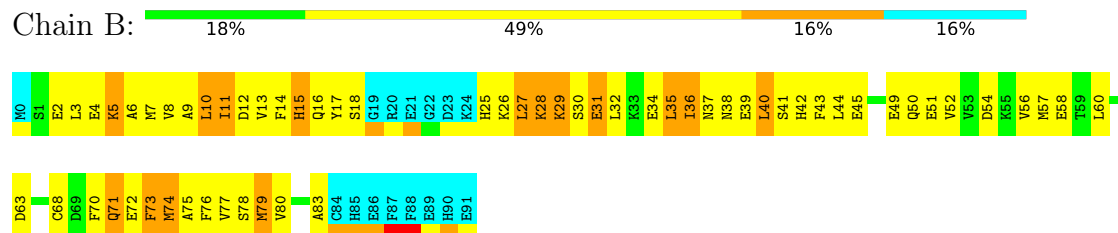


4.2.7 Score per residue for model 7

• Molecule 1: S100B

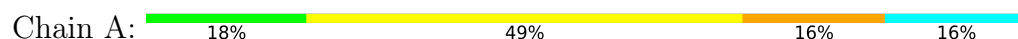


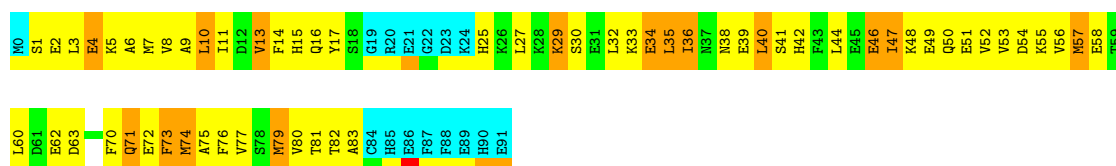
• Molecule 1: S100B



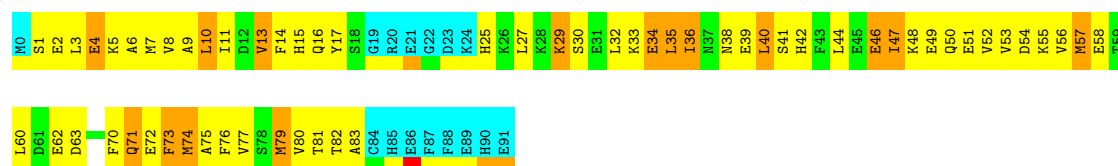
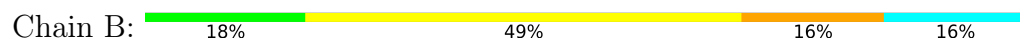
4.2.8 Score per residue for model 8

• Molecule 1: S100B



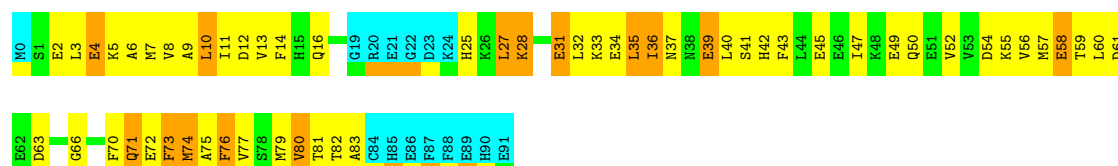


• Molecule 1: S100B

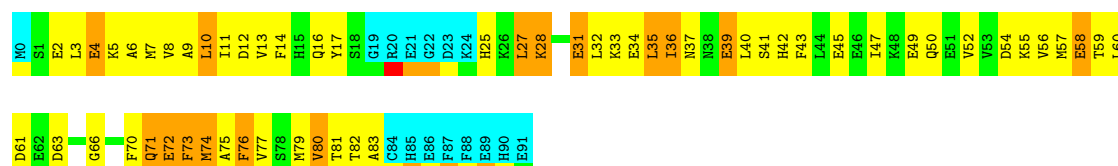
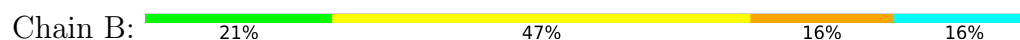


4.2.9 Score per residue for model 9

• Molecule 1: S100B

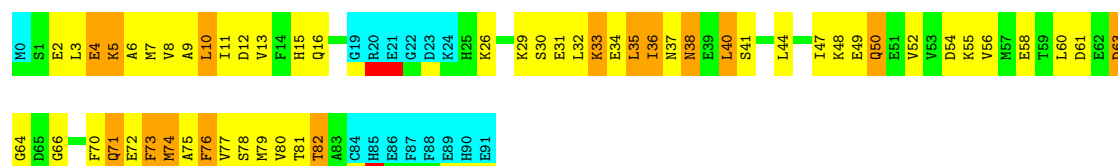


• Molecule 1: S100B

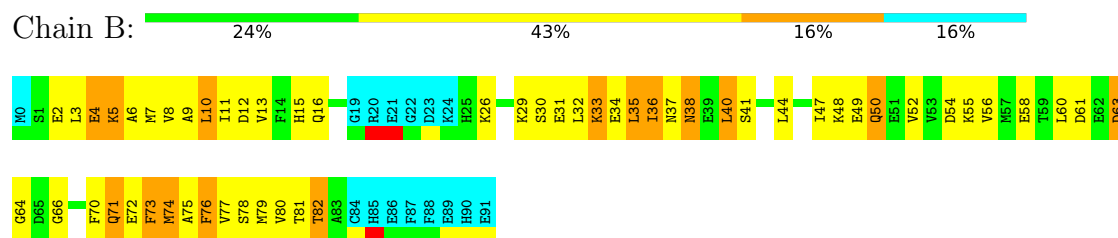


4.2.10 Score per residue for model 10

• Molecule 1: S100B

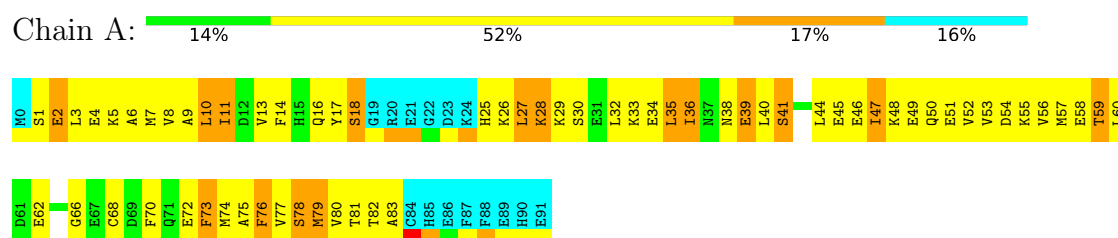


- Molecule 1: S100B

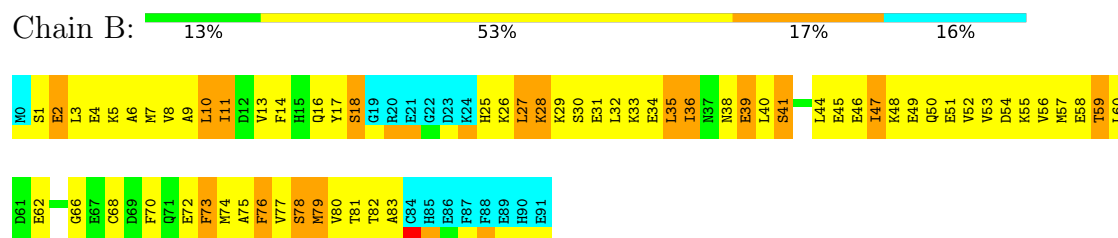


4.2.11 Score per residue for model 11

- Molecule 1: S100B

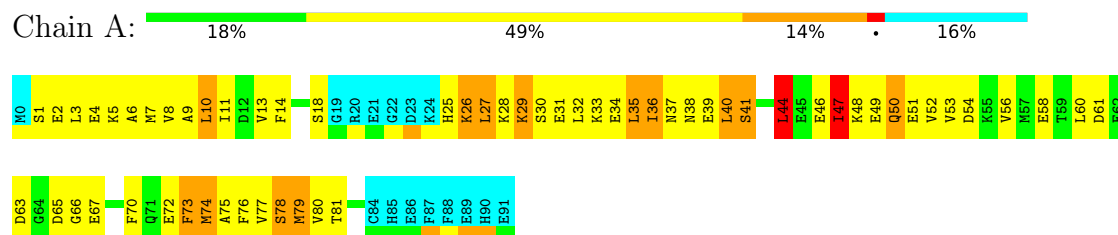


- Molecule 1: S100B

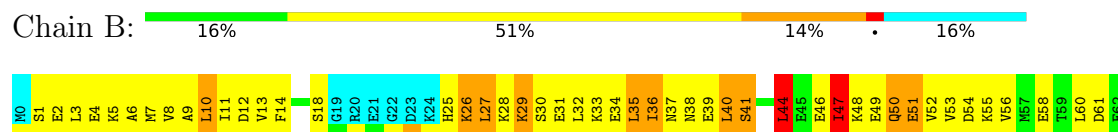


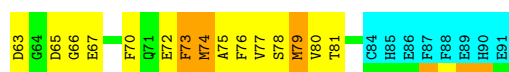
4.2.12 Score per residue for model 12

- Molecule 1: S100B



- Molecule 1: S100B





4.2.13 Score per residue for model 13

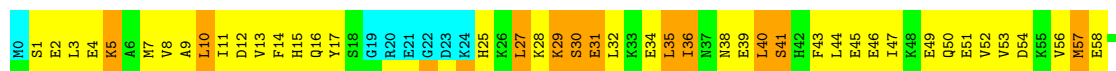
- Molecule 1: S100B

Chain A: 16% 49% 18% 16%



- Molecule 1: S100B

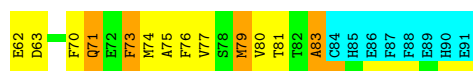
Chain B: 16% 50% 17% 16%



4.2.14 Score per residue for model 14

- Molecule 1: S100B

Chain A: 18% 47% 18% 16%



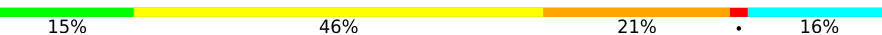
- Molecule 1: S100B

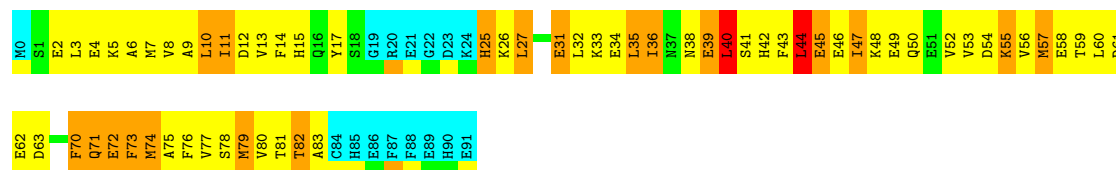
Chain B: 18% 47% 18% 16%



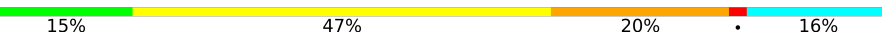
4.2.15 Score per residue for model 15

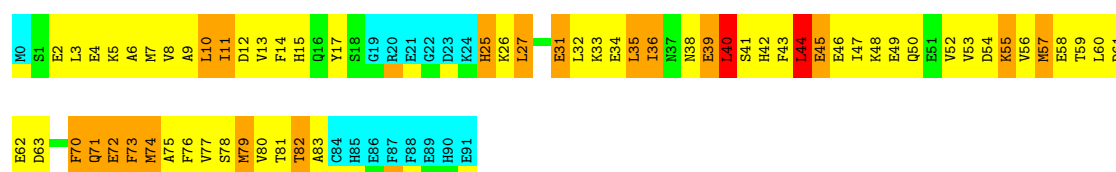
• Molecule 1: S100B

Chain A: 



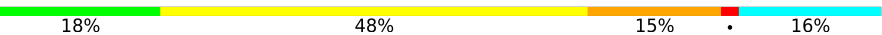
• Molecule 1: S100B

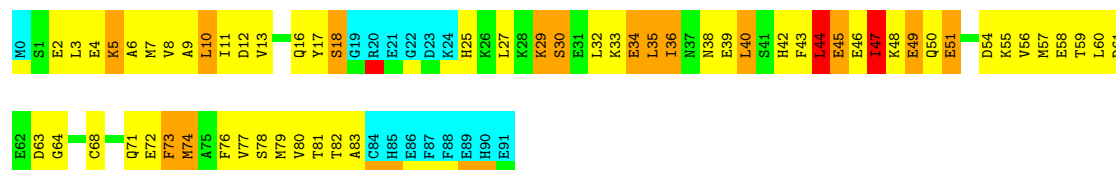
Chain B: 



4.2.16 Score per residue for model 16

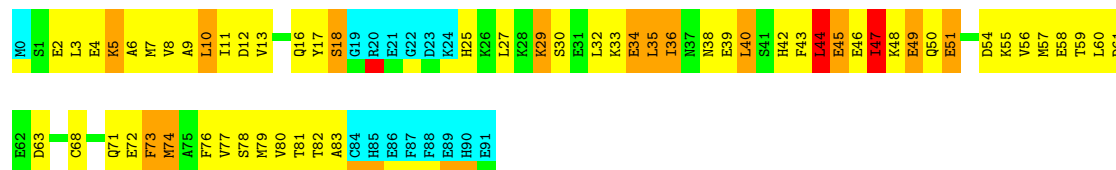
• Molecule 1: S100B

Chain A: 



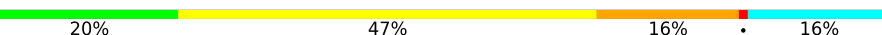
• Molecule 1: S100B

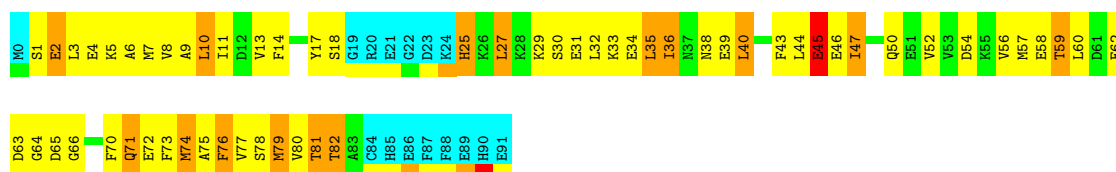
Chain B: 



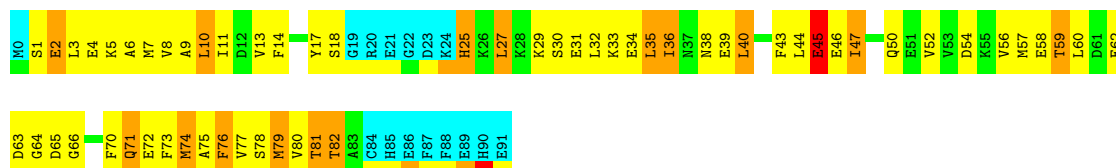
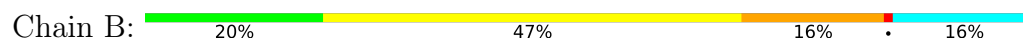
4.2.17 Score per residue for model 17 (medoid)

• Molecule 1: S100B

Chain A: 

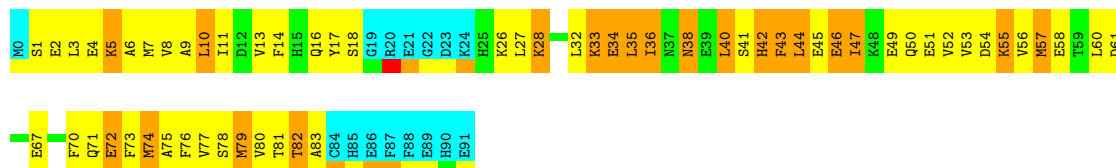
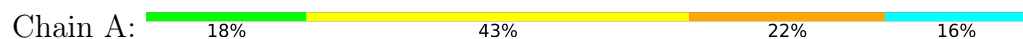


• Molecule 1: S100B

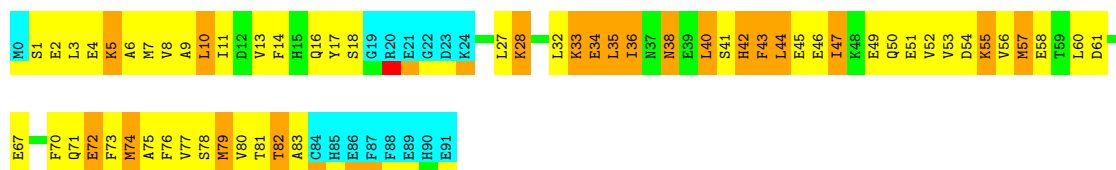
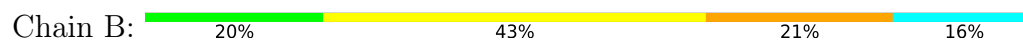


4.2.18 Score per residue for model 18

• Molecule 1: S100B

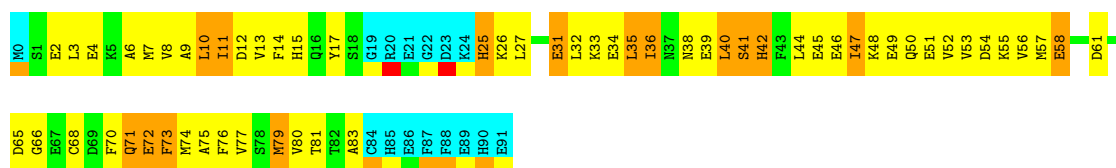
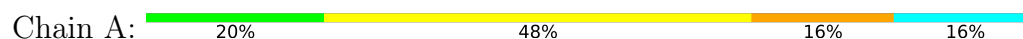


• Molecule 1: S100B

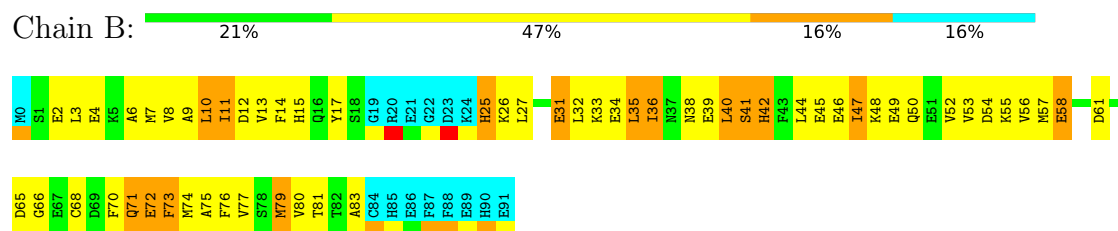


4.2.19 Score per residue for model 19

• Molecule 1: S100B

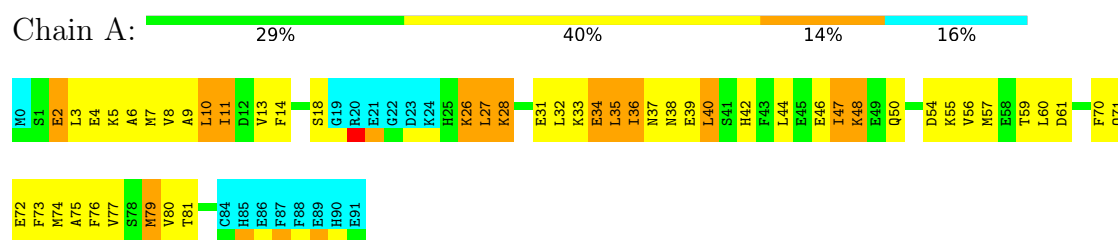


- Molecule 1: S100B

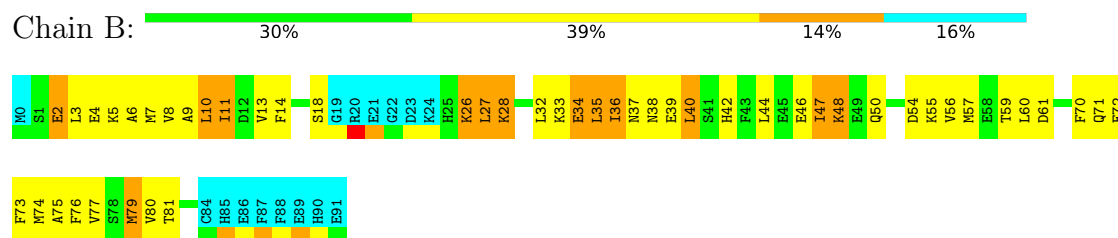


4.2.20 Score per residue for model 20

- Molecule 1: S100B



- Molecule 1: S100B



5 Refinement protocol and experimental data overview ⓘ

Of the ? calculated structures, 20 were deposited, based on the following criterion: ?.

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

Software name	Classification	Version
X-PLOR	refinement	3.1

No chemical shift data was provided.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	1.43±0.01	0±0/631 (0.0± 0.1%)	1.24±0.01	0±0/847 (0.0± 0.0%)
1	B	1.43±0.01	0±0/631 (0.0± 0.1%)	1.24±0.01	0±0/847 (0.0± 0.0%)
All	All	1.43	7/25240 (0.0%)	1.24	0/33880 (0.0%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	66	GLY	N-CA	5.95	1.49	1.44	17	3
1	B	66	GLY	N-CA	5.93	1.49	1.44	9	4

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	622	601	601	91±14
1	B	622	601	601	91±13
All	All	24880	24040	24040	3095

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 63.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:LEU:HD22	1:A:74:MET:HE1	1.14	1.16	10	3
1:B:10:LEU:HD22	1:B:74:MET:HE1	1.14	1.16	10	3
1:A:7:MET:HE2	1:B:77:VAL:HG12	1.09	1.11	7	10
1:A:77:VAL:HG12	1:B:7:MET:HE2	1.08	1.09	7	10
1:A:70:PHE:CE2	1:B:82:THR:HG23	1.03	1.88	15	1
1:A:82:THR:HG23	1:B:70:PHE:CE2	1.03	1.89	15	1
1:A:36:ILE:CG2	1:A:80:VAL:HG21	1.01	1.85	6	8
1:B:36:ILE:CG2	1:B:80:VAL:HG21	1.01	1.85	6	8
1:A:14:PHE:CZ	1:A:27:LEU:HD23	1.01	1.91	5	5
1:B:32:LEU:HD13	1:B:73:PHE:CD2	1.00	1.90	4	3
1:A:32:LEU:HD13	1:A:73:PHE:CD2	1.00	1.90	4	3
1:B:14:PHE:CZ	1:B:27:LEU:HD23	1.00	1.91	5	5
1:A:10:LEU:HD13	1:A:11:ILE:N	0.99	1.72	19	1
1:B:10:LEU:HD13	1:B:11:ILE:N	0.98	1.72	19	1
1:A:3:LEU:CD1	1:B:10:LEU:HD23	0.96	1.90	19	1
1:A:10:LEU:HD23	1:B:3:LEU:CD1	0.94	1.91	19	1
1:B:36:ILE:HG21	1:B:80:VAL:HG21	0.94	1.40	6	13
1:A:3:LEU:HD22	1:B:35:LEU:CD1	0.93	1.92	19	10
1:A:3:LEU:HD22	1:B:35:LEU:HD12	0.93	1.40	17	12
1:B:10:LEU:HD22	1:B:10:LEU:O	0.92	1.65	19	1
1:A:10:LEU:HD22	1:A:10:LEU:O	0.92	1.65	19	1
1:A:36:ILE:HG21	1:A:80:VAL:HG21	0.92	1.40	6	13
1:B:44:LEU:HD13	1:B:44:LEU:O	0.91	1.66	11	1
1:A:44:LEU:HD13	1:A:44:LEU:O	0.91	1.66	11	1
1:A:10:LEU:HD13	1:A:74:MET:CE	0.90	1.96	16	4
1:B:78:SER:O	1:B:82:THR:HG22	0.90	1.65	16	1
1:B:10:LEU:HD13	1:B:74:MET:CE	0.90	1.95	16	4
1:A:35:LEU:CD1	1:B:3:LEU:HD22	0.90	1.97	19	10
1:A:78:SER:O	1:A:82:THR:HG22	0.89	1.65	16	1
1:A:35:LEU:HD12	1:B:3:LEU:HD22	0.89	1.41	13	12
1:A:10:LEU:HD22	1:A:74:MET:CE	0.89	1.98	13	7
1:B:10:LEU:HD22	1:B:74:MET:CE	0.89	1.98	13	7
1:A:17:TYR:CE1	1:A:35:LEU:HD21	0.89	2.03	6	5
1:A:3:LEU:HD11	1:B:10:LEU:HD23	0.88	1.41	19	1
1:A:10:LEU:HD23	1:B:3:LEU:HD11	0.88	1.44	19	1
1:B:17:TYR:CE1	1:B:35:LEU:HD21	0.88	2.03	6	5
1:B:10:LEU:HD11	1:B:74:MET:SD	0.87	2.10	19	1
1:A:82:THR:HG21	1:B:71:GLN:HG2	0.86	1.47	15	1
1:A:71:GLN:HG2	1:B:82:THR:HG21	0.86	1.46	15	1
1:A:10:LEU:HD11	1:A:74:MET:SD	0.86	2.10	19	1
1:A:56:VAL:HG21	1:A:80:VAL:CG1	0.85	2.01	10	12
1:A:7:MET:SD	1:B:77:VAL:HG12	0.85	2.11	20	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:49:GLU:OE1	1:B:52:VAL:HG23	0.85	1.71	2	14
1:B:56:VAL:HG21	1:B:80:VAL:CG1	0.85	2.01	10	12
1:A:77:VAL:HG12	1:B:7:MET:SD	0.85	2.10	20	5
1:A:7:MET:CG	1:B:81:THR:HG21	0.84	2.02	13	8
1:A:49:GLU:OE1	1:A:52:VAL:HG23	0.83	1.71	2	14
1:A:7:MET:HG3	1:B:81:THR:HG21	0.83	1.49	16	11
1:A:33:LYS:HB2	1:A:60:LEU:HD22	0.82	1.52	4	10
1:A:81:THR:HG21	1:B:7:MET:CG	0.81	2.04	13	7
1:A:56:VAL:HG12	1:A:76:PHE:CZ	0.81	2.11	4	4
1:B:33:LYS:HB2	1:B:60:LEU:HD22	0.81	1.52	4	10
1:A:52:VAL:O	1:A:56:VAL:HG22	0.81	1.76	5	10
1:B:10:LEU:HD13	1:B:74:MET:HE1	0.80	1.50	16	7
1:A:32:LEU:HD13	1:A:73:PHE:CD1	0.80	2.11	17	2
1:B:56:VAL:HG12	1:B:76:PHE:CZ	0.80	2.11	4	5
1:B:32:LEU:HD13	1:B:73:PHE:CD1	0.80	2.12	17	2
1:A:10:LEU:HD13	1:A:74:MET:HE1	0.80	1.50	16	6
1:A:81:THR:HG21	1:B:7:MET:HG3	0.79	1.52	16	11
1:A:74:MET:HE3	1:A:74:MET:HA	0.79	1.55	17	4
1:B:56:VAL:HG12	1:B:76:PHE:CE2	0.79	2.12	13	10
1:B:52:VAL:O	1:B:56:VAL:HG22	0.79	1.76	5	9
1:A:56:VAL:HG12	1:A:76:PHE:CE2	0.79	2.12	13	10
1:B:5:LYS:O	1:B:9:ALA:HB2	0.78	1.78	10	15
1:A:77:VAL:HG12	1:B:7:MET:HE3	0.78	1.54	13	2
1:A:5:LYS:O	1:A:9:ALA:HB2	0.78	1.78	13	14
1:A:2:GLU:HB2	1:B:13:VAL:HG22	0.78	1.54	9	7
1:A:13:VAL:HG22	1:B:2:GLU:HB2	0.77	1.55	9	7
1:A:43:PHE:C	1:A:44:LEU:HD12	0.77	2.04	13	1
1:B:43:PHE:C	1:B:44:LEU:HD12	0.77	2.04	13	1
1:B:49:GLU:HB2	1:B:83:ALA:HB1	0.77	1.56	16	2
1:A:40:LEU:HD11	1:B:7:MET:HG2	0.77	1.55	16	2
1:B:74:MET:HE3	1:B:74:MET:HA	0.77	1.55	17	4
1:A:2:GLU:HB3	1:B:13:VAL:HG22	0.77	1.56	17	9
1:A:7:MET:HE3	1:B:77:VAL:HG12	0.77	1.56	13	2
1:A:7:MET:HG2	1:B:40:LEU:HD11	0.77	1.57	16	2
1:A:10:LEU:HD22	1:A:10:LEU:C	0.77	2.03	19	1
1:A:13:VAL:HG22	1:B:2:GLU:HB3	0.76	1.56	17	9
1:B:10:LEU:HD22	1:B:10:LEU:C	0.76	2.03	19	1
1:A:71:GLN:HA	1:B:82:THR:HG21	0.76	1.55	9	3
1:A:49:GLU:HB2	1:A:83:ALA:HB1	0.76	1.56	16	2
1:A:82:THR:HG21	1:B:71:GLN:HA	0.75	1.57	9	3
1:A:7:MET:CE	1:B:77:VAL:HG12	0.75	2.12	2	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:ALA:CB	1:B:9:ALA:HB3	0.74	2.11	9	13
1:A:3:LEU:HD23	1:B:40:LEU:CD2	0.74	2.12	13	1
1:A:10:LEU:HD13	1:A:10:LEU:C	0.73	2.07	19	1
1:B:10:LEU:HD13	1:B:10:LEU:C	0.73	2.07	19	1
1:A:9:ALA:HB3	1:B:6:ALA:CB	0.73	2.12	9	13
1:A:77:VAL:HG12	1:B:7:MET:CE	0.73	2.13	2	8
1:A:36:ILE:CG2	1:A:40:LEU:HD22	0.73	2.14	17	3
1:B:10:LEU:CD2	1:B:74:MET:HE1	0.73	2.08	10	1
1:A:56:VAL:HG12	1:A:76:PHE:CE1	0.73	2.19	4	3
1:A:56:VAL:HG12	1:A:76:PHE:CD2	0.73	2.19	13	4
1:B:56:VAL:HG12	1:B:76:PHE:CD2	0.73	2.19	13	4
1:B:33:LYS:HG3	1:B:60:LEU:HD13	0.72	1.61	16	6
1:B:17:TYR:CD1	1:B:35:LEU:HD21	0.72	2.19	18	5
1:A:39:GLU:HB2	1:B:3:LEU:HD23	0.72	1.60	2	1
1:B:32:LEU:HD12	1:B:32:LEU:O	0.72	1.85	13	4
1:B:56:VAL:HG12	1:B:76:PHE:CE1	0.72	2.18	4	3
1:A:39:GLU:HG2	1:A:40:LEU:HD12	0.72	1.61	9	1
1:B:14:PHE:CE2	1:B:27:LEU:HD23	0.72	2.19	5	3
1:A:32:LEU:HD12	1:A:32:LEU:O	0.72	1.85	13	4
1:A:14:PHE:CD2	1:A:27:LEU:HD12	0.72	2.19	15	1
1:A:14:PHE:CE2	1:A:27:LEU:HD23	0.71	2.19	5	3
1:A:26:LYS:O	1:A:27:LEU:HD22	0.71	1.85	14	2
1:B:39:GLU:HG2	1:B:40:LEU:HD12	0.71	1.61	9	1
1:B:14:PHE:CD2	1:B:27:LEU:HD12	0.71	2.19	15	1
1:B:36:ILE:CG2	1:B:40:LEU:HD22	0.71	2.14	17	3
1:A:40:LEU:CD2	1:B:3:LEU:HD23	0.71	2.15	13	1
1:A:8:VAL:HG23	1:B:39:GLU:OE2	0.71	1.85	9	1
1:A:82:THR:HG21	1:B:71:GLN:HB3	0.71	1.61	3	1
1:A:73:PHE:O	1:A:77:VAL:HG23	0.71	1.85	1	13
1:A:3:LEU:HD23	1:B:39:GLU:HB2	0.71	1.60	2	1
1:B:40:LEU:HD12	1:B:40:LEU:C	0.71	2.11	15	1
1:A:33:LYS:HG3	1:A:60:LEU:HD13	0.71	1.61	16	5
1:A:6:ALA:HB2	1:B:9:ALA:CB	0.71	2.16	9	8
1:B:73:PHE:O	1:B:77:VAL:HG23	0.71	1.85	1	13
1:A:17:TYR:CD1	1:A:35:LEU:HD21	0.71	2.19	18	5
1:A:10:LEU:CD2	1:A:74:MET:HE1	0.71	2.08	10	1
1:A:13:VAL:HG11	1:B:3:LEU:HD13	0.70	1.61	3	4
1:B:26:LYS:O	1:B:27:LEU:HD22	0.70	1.86	14	2
1:A:40:LEU:C	1:A:40:LEU:HD12	0.70	2.11	15	1
1:B:36:ILE:HG23	1:B:40:LEU:HD22	0.70	1.63	9	2
1:B:29:LYS:O	1:B:60:LEU:HD22	0.70	1.87	12	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:18:SER:HB2	1:B:27:LEU:HD12	0.70	1.64	4	1
1:A:18:SER:HB2	1:A:27:LEU:HD12	0.69	1.64	4	1
1:A:9:ALA:CB	1:B:6:ALA:HB2	0.69	2.17	9	8
1:A:2:GLU:O	1:A:6:ALA:HB3	0.69	1.88	8	6
1:B:2:GLU:O	1:B:6:ALA:HB3	0.69	1.88	8	5
1:B:32:LEU:HD13	1:B:73:PHE:HD2	0.69	1.47	4	3
1:B:40:LEU:HD23	1:B:80:VAL:HB	0.69	1.64	9	1
1:A:56:VAL:HG21	1:A:80:VAL:HG12	0.69	1.64	10	4
1:A:36:ILE:HG22	1:A:40:LEU:HD22	0.68	1.64	15	2
1:A:14:PHE:CE1	1:A:27:LEU:HD12	0.68	2.23	9	2
1:A:10:LEU:HD22	1:A:74:MET:SD	0.68	2.28	2	3
1:B:56:VAL:HG21	1:B:80:VAL:HG12	0.68	1.64	10	4
1:A:14:PHE:CE1	1:A:73:PHE:CD2	0.68	2.81	9	2
1:A:77:VAL:CG1	1:B:7:MET:HE2	0.68	2.04	7	2
1:B:14:PHE:CE1	1:B:73:PHE:CD2	0.68	2.81	9	2
1:A:39:GLU:OE2	1:B:8:VAL:HG23	0.68	1.88	9	1
1:A:36:ILE:HG23	1:A:40:LEU:HD22	0.68	1.63	9	2
1:A:29:LYS:O	1:A:60:LEU:HD22	0.68	1.87	12	6
1:A:40:LEU:HD21	1:A:77:VAL:HG13	0.68	1.66	20	1
1:A:3:LEU:HD22	1:B:35:LEU:HD13	0.68	1.65	19	3
1:A:11:ILE:HD11	1:B:81:THR:HG21	0.68	1.66	19	1
1:B:10:LEU:HD22	1:B:74:MET:SD	0.67	2.28	2	3
1:B:14:PHE:CE1	1:B:27:LEU:HD12	0.67	2.23	9	2
1:A:3:LEU:HD23	1:B:39:GLU:HB3	0.67	1.65	20	1
1:A:10:LEU:HD22	1:A:74:MET:HE2	0.67	1.66	13	1
1:B:40:LEU:HD21	1:B:77:VAL:HG13	0.67	1.66	20	1
1:B:13:VAL:HG11	1:B:35:LEU:HD11	0.67	1.65	18	7
1:B:36:ILE:HG22	1:B:40:LEU:HD22	0.67	1.64	15	2
1:A:4:GLU:HA	1:B:40:LEU:HD23	0.67	1.65	16	1
1:A:10:LEU:HD22	1:A:74:MET:HE3	0.67	1.67	4	7
1:A:40:LEU:HD23	1:A:80:VAL:HB	0.67	1.64	9	1
1:A:81:THR:HB	1:B:7:MET:HE3	0.67	1.65	14	3
1:B:10:LEU:HD22	1:B:74:MET:HE2	0.67	1.66	13	1
1:A:71:GLN:HB3	1:B:82:THR:HG21	0.67	1.65	3	1
1:B:10:LEU:HD22	1:B:74:MET:HE3	0.66	1.67	4	7
1:A:13:VAL:HG11	1:A:35:LEU:HD11	0.66	1.65	18	7
1:A:81:THR:CB	1:B:7:MET:HE3	0.66	2.21	14	1
1:A:40:LEU:HD22	1:A:40:LEU:N	0.66	2.04	2	1
1:A:82:THR:HG23	1:B:74:MET:HG2	0.66	1.66	10	1
1:A:7:MET:HE3	1:B:81:THR:CB	0.66	2.21	14	1
1:A:39:GLU:HB3	1:B:3:LEU:HD23	0.66	1.66	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:40:LEU:HD22	1:B:40:LEU:N	0.66	2.04	2	1
1:A:7:MET:HE3	1:B:81:THR:HB	0.66	1.65	14	3
1:A:10:LEU:HD11	1:B:7:MET:SD	0.65	2.31	5	4
1:A:13:VAL:CG1	1:A:35:LEU:HD11	0.65	2.21	15	3
1:B:13:VAL:CG1	1:B:35:LEU:HD11	0.65	2.21	15	3
1:A:6:ALA:HB2	1:B:9:ALA:HB3	0.65	1.66	9	3
1:A:3:LEU:HD13	1:B:13:VAL:HG11	0.65	1.65	3	4
1:A:32:LEU:HD13	1:A:73:PHE:HD2	0.65	1.47	4	3
1:A:74:MET:HG2	1:B:82:THR:HG23	0.65	1.66	10	1
1:A:81:THR:HG21	1:B:11:ILE:HD11	0.64	1.69	19	1
1:A:40:LEU:N	1:A:40:LEU:CD2	0.64	2.60	2	1
1:B:27:LEU:HD13	1:B:73:PHE:CD1	0.64	2.28	17	1
1:A:9:ALA:HB3	1:B:6:ALA:HB2	0.64	1.67	9	4
1:B:33:LYS:CG	1:B:60:LEU:HD13	0.64	2.22	4	1
1:B:40:LEU:N	1:B:40:LEU:CD2	0.64	2.60	2	1
1:A:40:LEU:CD2	1:A:80:VAL:HG23	0.64	2.23	9	1
1:A:47:ILE:HG23	1:A:53:VAL:HG21	0.63	1.70	4	2
1:A:7:MET:SD	1:B:10:LEU:HD11	0.63	2.33	5	4
1:A:40:LEU:HA	1:B:3:LEU:HD23	0.63	1.70	15	1
1:B:55:LYS:NZ	1:B:79:MET:HE1	0.63	2.09	15	2
1:A:35:LEU:HD13	1:B:3:LEU:HD22	0.63	1.69	19	3
1:A:27:LEU:HD13	1:A:73:PHE:CD1	0.63	2.28	17	1
1:B:76:PHE:O	1:B:80:VAL:HG22	0.63	1.94	10	15
1:A:3:LEU:HD23	1:B:40:LEU:HD23	0.63	1.70	13	2
1:A:55:LYS:NZ	1:A:79:MET:HE1	0.63	2.08	15	2
1:A:70:PHE:CZ	1:A:71:GLN:CG	0.63	2.81	1	1
1:A:33:LYS:CG	1:A:60:LEU:HD13	0.63	2.22	4	1
1:B:25:HIS:CG	1:B:25:HIS:O	0.63	2.51	6	3
1:A:25:HIS:O	1:A:25:HIS:CG	0.63	2.51	6	3
1:A:81:THR:CG2	1:B:11:ILE:HD11	0.63	2.24	20	2
1:B:4:GLU:O	1:B:8:VAL:HG23	0.63	1.94	15	13
1:B:47:ILE:HG23	1:B:53:VAL:HG21	0.63	1.70	4	2
1:A:40:LEU:HD23	1:B:4:GLU:HA	0.63	1.68	16	1
1:A:4:GLU:O	1:A:8:VAL:HG23	0.63	1.94	15	13
1:B:40:LEU:CD2	1:B:80:VAL:HG23	0.62	2.23	9	1
1:A:36:ILE:HG23	1:A:40:LEU:HD23	0.62	1.71	20	1
1:B:17:TYR:CG	1:B:35:LEU:HD21	0.62	2.29	13	5
1:A:76:PHE:O	1:A:80:VAL:HG22	0.62	1.95	14	15
1:B:70:PHE:CZ	1:B:71:GLN:CG	0.62	2.82	1	1
1:A:48:LYS:HB2	1:A:83:ALA:HB3	0.62	1.70	16	1
1:A:14:PHE:CD1	1:A:73:PHE:CE1	0.62	2.88	2	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:56:VAL:CG1	1:B:76:PHE:CD2	0.62	2.83	13	2
1:A:74:MET:HG3	1:B:82:THR:HG21	0.62	1.70	11	2
1:B:70:PHE:CD1	1:B:71:GLN:N	0.62	2.67	9	3
1:B:36:ILE:HG23	1:B:40:LEU:HD23	0.62	1.71	20	1
1:A:17:TYR:CG	1:A:35:LEU:HD21	0.61	2.29	13	5
1:B:14:PHE:CD1	1:B:73:PHE:CE1	0.61	2.88	2	5
1:A:70:PHE:CD1	1:A:71:GLN:N	0.61	2.68	9	3
1:A:40:LEU:CD2	1:A:80:VAL:CG2	0.61	2.78	9	1
1:A:3:LEU:HD23	1:B:40:LEU:HA	0.61	1.72	15	1
1:B:48:LYS:HB2	1:B:83:ALA:HB3	0.61	1.70	16	1
1:A:81:THR:OG1	1:B:7:MET:HE3	0.61	1.95	18	3
1:B:32:LEU:HD13	1:B:73:PHE:CE2	0.61	2.30	4	1
1:B:14:PHE:CE1	1:B:27:LEU:HD23	0.61	2.30	14	1
1:A:40:LEU:HD23	1:B:3:LEU:HD23	0.61	1.72	13	2
1:A:82:THR:HG21	1:B:74:MET:HG3	0.61	1.72	4	2
1:A:56:VAL:CG1	1:A:76:PHE:CD2	0.61	2.83	13	2
1:A:13:VAL:HG13	1:A:17:TYR:OH	0.61	1.96	6	1
1:B:78:SER:O	1:B:82:THR:HG23	0.61	1.96	6	1
1:A:44:LEU:HD21	1:A:47:ILE:HD11	0.61	1.72	3	2
1:A:78:SER:O	1:A:82:THR:HG23	0.61	1.96	6	1
1:B:13:VAL:HG13	1:B:17:TYR:OH	0.61	1.95	6	1
1:B:44:LEU:HD21	1:B:47:ILE:HD11	0.60	1.72	3	2
1:A:10:LEU:HD21	1:B:3:LEU:HD11	0.60	1.73	18	4
1:B:40:LEU:CD2	1:B:80:VAL:CG2	0.60	2.78	9	1
1:A:13:VAL:HG12	1:A:14:PHE:N	0.60	2.12	3	2
1:A:14:PHE:CE1	1:A:27:LEU:HD23	0.60	2.30	14	1
1:A:25:HIS:CG	1:A:25:HIS:O	0.60	2.54	4	1
1:A:32:LEU:HD13	1:A:73:PHE:CE2	0.60	2.30	4	1
1:A:7:MET:HE3	1:B:81:THR:OG1	0.60	1.95	18	3
1:A:11:ILE:HD11	1:B:81:THR:CG2	0.60	2.26	20	2
1:B:43:PHE:HZ	1:B:81:THR:HG23	0.60	1.55	3	1
1:A:35:LEU:HD11	1:B:3:LEU:HD13	0.60	1.72	9	1
1:A:64:GLY:O	1:A:66:GLY:N	0.59	2.35	13	1
1:A:11:ILE:HD12	1:A:11:ILE:N	0.59	2.11	8	4
1:B:70:PHE:CG	1:B:71:GLN:N	0.59	2.71	19	1
1:A:3:LEU:HD13	1:B:35:LEU:HD11	0.59	1.72	9	1
1:B:11:ILE:N	1:B:11:ILE:HD12	0.59	2.11	8	5
1:A:43:PHE:HZ	1:A:81:THR:HG23	0.59	1.55	3	1
1:B:10:LEU:HD13	1:B:74:MET:HE3	0.59	1.74	6	1
1:A:3:LEU:HD11	1:B:10:LEU:HD21	0.59	1.74	18	4
1:B:56:VAL:HG21	1:B:80:VAL:HG13	0.59	1.73	14	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:13:VAL:HG12	1:B:14:PHE:N	0.59	2.12	3	2
1:A:10:LEU:HD13	1:A:74:MET:HE3	0.59	1.75	6	1
1:A:25:HIS:O	1:A:25:HIS:CD2	0.59	2.56	4	2
1:A:3:LEU:HD23	1:B:40:LEU:HG	0.59	1.75	5	5
1:A:40:LEU:CD2	1:A:40:LEU:N	0.59	2.66	13	1
1:A:34:GLU:O	1:A:38:ASN:CB	0.58	2.51	2	14
1:A:14:PHE:CD1	1:A:73:PHE:CE2	0.58	2.91	9	3
1:B:14:PHE:CD1	1:B:73:PHE:CE2	0.58	2.91	9	3
1:A:56:VAL:HG21	1:A:80:VAL:HG13	0.58	1.74	14	7
1:A:3:LEU:CD2	1:B:40:LEU:HD23	0.58	2.28	3	1
1:B:25:HIS:O	1:B:25:HIS:CD2	0.58	2.56	4	1
1:B:44:LEU:HD23	1:B:47:ILE:HD11	0.58	1.75	4	1
1:A:81:THR:HG21	1:B:7:MET:SD	0.58	2.38	9	1
1:B:64:GLY:O	1:B:66:GLY:N	0.58	2.35	13	1
1:A:25:HIS:O	1:A:70:PHE:CE1	0.58	2.56	11	1
1:A:13:VAL:HG21	1:B:3:LEU:HA	0.58	1.75	13	1
1:B:41:SER:O	1:B:42:HIS:CG	0.58	2.57	18	1
1:A:44:LEU:HD23	1:A:47:ILE:HD11	0.58	1.76	4	1
1:A:70:PHE:CG	1:A:71:GLN:N	0.58	2.71	19	1
1:A:70:PHE:CZ	1:A:71:GLN:HG3	0.58	2.33	1	2
1:B:44:LEU:HD13	1:B:47:ILE:HD12	0.58	1.76	12	1
1:B:40:LEU:CD2	1:B:40:LEU:N	0.58	2.66	13	1
1:A:73:PHE:CD1	1:A:73:PHE:O	0.58	2.57	20	1
1:B:34:GLU:O	1:B:38:ASN:CB	0.58	2.51	2	14
1:A:36:ILE:HG23	1:A:80:VAL:HG21	0.58	1.74	20	3
1:B:36:ILE:HA	1:B:40:LEU:HD23	0.58	1.74	2	1
1:A:7:MET:SD	1:B:81:THR:HG21	0.58	2.39	9	1
1:A:7:MET:HE2	1:B:77:VAL:CG1	0.58	2.06	7	2
1:B:73:PHE:CD1	1:B:73:PHE:O	0.58	2.57	20	1
1:A:3:LEU:HD23	1:B:40:LEU:HB2	0.58	1.74	18	1
1:B:70:PHE:CZ	1:B:71:GLN:HG3	0.57	2.33	1	2
1:B:36:ILE:HG23	1:B:80:VAL:HG21	0.57	1.74	20	3
1:B:25:HIS:O	1:B:70:PHE:CE1	0.57	2.56	11	1
1:A:43:PHE:CG	1:A:43:PHE:O	0.57	2.57	4	2
1:B:43:PHE:CG	1:B:43:PHE:O	0.57	2.57	4	1
1:B:70:PHE:CE2	1:B:71:GLN:CG	0.57	2.87	14	3
1:A:44:LEU:HD13	1:A:47:ILE:HD12	0.57	1.76	12	1
1:A:82:THR:HG21	1:B:71:GLN:CG	0.57	2.27	15	1
1:B:72:GLU:OE2	1:B:76:PHE:CE1	0.57	2.58	15	1
1:A:36:ILE:HA	1:A:40:LEU:HD23	0.57	1.75	2	1
1:A:72:GLU:OE2	1:A:76:PHE:CE1	0.57	2.58	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:70:PHE:CE2	1:A:71:GLN:CG	0.57	2.87	14	3
1:A:71:GLN:CG	1:B:82:THR:HG21	0.57	2.26	15	1
1:A:41:SER:O	1:A:42:HIS:CG	0.57	2.57	18	1
1:A:70:PHE:CE2	1:A:71:GLN:HG3	0.56	2.35	14	3
1:B:43:PHE:O	1:B:43:PHE:CG	0.56	2.58	6	1
1:B:52:VAL:HG11	1:B:79:MET:O	0.56	2.00	17	2
1:B:70:PHE:CE2	1:B:71:GLN:HG3	0.56	2.35	14	3
1:A:33:LYS:HG2	1:A:60:LEU:HD13	0.56	1.76	18	1
1:A:4:GLU:O	1:A:8:VAL:CG2	0.56	2.53	20	19
1:A:50:GLN:O	1:A:54:ASP:CB	0.56	2.54	11	19
1:B:4:GLU:O	1:B:8:VAL:CG2	0.56	2.54	20	19
1:A:32:LEU:HD13	1:A:73:PHE:HB2	0.56	1.78	2	2
1:B:32:LEU:HD13	1:B:73:PHE:HB2	0.56	1.78	2	2
1:A:32:LEU:HD22	1:A:68:CYS:SG	0.56	2.41	3	1
1:A:17:TYR:CD2	1:A:35:LEU:CD2	0.56	2.88	15	5
1:B:17:TYR:CD2	1:B:35:LEU:CD2	0.56	2.88	15	5
1:A:40:LEU:HB2	1:B:3:LEU:HD23	0.56	1.76	18	1
1:B:42:HIS:CB	1:B:80:VAL:O	0.56	2.53	18	1
1:A:43:PHE:CZ	1:A:81:THR:HG23	0.56	2.35	3	1
1:B:43:PHE:CZ	1:B:81:THR:HG23	0.56	2.35	3	1
1:B:11:ILE:N	1:B:11:ILE:CD1	0.56	2.69	8	3
1:B:25:HIS:CD2	1:B:25:HIS:C	0.56	2.83	17	1
1:A:52:VAL:HG11	1:A:79:MET:O	0.56	2.00	17	2
1:B:11:ILE:CD1	1:B:11:ILE:N	0.56	2.69	10	2
1:B:47:ILE:CG2	1:B:53:VAL:HG21	0.56	2.31	4	2
1:B:37:ASN:O	1:B:41:SER:CB	0.56	2.54	6	4
1:B:14:PHE:HE1	1:B:27:LEU:HD12	0.56	1.60	9	1
1:A:42:HIS:CB	1:A:80:VAL:O	0.56	2.53	18	1
1:A:70:PHE:CE2	1:A:71:GLN:HG2	0.56	2.36	8	3
1:B:33:LYS:HG2	1:B:60:LEU:HD13	0.56	1.76	18	1
1:B:50:GLN:O	1:B:54:ASP:CB	0.56	2.54	1	19
1:B:70:PHE:CE2	1:B:71:GLN:HG2	0.56	2.36	8	3
1:A:39:GLU:CB	1:B:3:LEU:CB	0.56	2.85	11	1
1:A:37:ASN:O	1:A:41:SER:CB	0.55	2.54	6	4
1:B:56:VAL:CB	1:B:76:PHE:CE2	0.55	2.89	6	3
1:A:11:ILE:N	1:A:11:ILE:CD1	0.55	2.69	10	5
1:A:47:ILE:CG2	1:A:53:VAL:HG21	0.55	2.31	4	2
1:A:14:PHE:CD1	1:A:73:PHE:CD1	0.55	2.95	8	2
1:A:56:VAL:CB	1:A:76:PHE:CE2	0.55	2.89	6	3
1:B:32:LEU:HD22	1:B:68:CYS:SG	0.55	2.41	3	1
1:A:25:HIS:CD2	1:A:25:HIS:C	0.55	2.83	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:73:PHE:C	1:B:73:PHE:CD1	0.55	2.84	7	2
1:A:14:PHE:CE2	1:A:70:PHE:HB3	0.55	2.37	19	2
1:A:13:VAL:CG1	1:A:14:PHE:N	0.55	2.69	3	2
1:B:46:GLU:C	1:B:47:ILE:HD12	0.55	2.27	11	1
1:B:10:LEU:HB3	1:B:74:MET:HE3	0.55	1.78	13	1
1:A:45:GLU:N	1:A:45:GLU:OE1	0.55	2.39	16	1
1:A:53:VAL:O	1:A:57:MET:CB	0.55	2.55	1	8
1:A:73:PHE:CD1	1:A:73:PHE:C	0.55	2.84	7	5
1:B:14:PHE:CD1	1:B:73:PHE:CD1	0.55	2.95	8	2
1:A:8:VAL:HG22	1:B:41:SER:CB	0.55	2.31	15	1
1:A:3:LEU:HD11	1:B:10:LEU:CD2	0.55	2.27	19	1
1:A:17:TYR:CD2	1:A:35:LEU:HD21	0.55	2.37	19	3
1:B:2:GLU:O	1:B:6:ALA:CB	0.55	2.55	8	6
1:B:56:VAL:HG23	1:B:57:MET:N	0.55	2.17	16	8
1:B:40:LEU:O	1:B:41:SER:C	0.55	2.50	19	9
1:A:32:LEU:HD13	1:A:73:PHE:HD1	0.55	1.58	17	2
1:A:40:LEU:HD23	1:B:3:LEU:CD2	0.55	2.32	3	1
1:B:13:VAL:CG1	1:B:14:PHE:N	0.55	2.69	3	2
1:A:46:GLU:C	1:A:47:ILE:HD12	0.55	2.27	11	1
1:A:80:VAL:HG23	1:A:81:THR:N	0.55	2.17	19	3
1:A:3:LEU:CB	1:B:39:GLU:CB	0.55	2.85	11	1
1:B:25:HIS:O	1:B:25:HIS:CG	0.55	2.59	17	1
1:B:43:PHE:CD1	1:B:43:PHE:N	0.54	2.74	9	3
1:A:14:PHE:HE1	1:A:27:LEU:HD12	0.54	1.60	9	1
1:A:41:SER:CB	1:B:8:VAL:HG22	0.54	2.32	15	1
1:A:11:ILE:N	1:A:11:ILE:HD12	0.54	2.16	10	3
1:A:6:ALA:HB1	1:B:9:ALA:HB3	0.54	1.78	19	7
1:B:40:LEU:O	1:B:41:SER:CB	0.54	2.54	11	1
1:A:2:GLU:O	1:A:6:ALA:CB	0.54	2.55	8	6
1:B:53:VAL:O	1:B:57:MET:CB	0.54	2.55	1	8
1:A:3:LEU:HA	1:B:13:VAL:HG21	0.54	1.78	13	1
1:B:80:VAL:HG23	1:B:81:THR:N	0.54	2.17	19	3
1:B:14:PHE:CE2	1:B:70:PHE:HB3	0.54	2.37	19	2
1:A:45:GLU:O	1:A:46:GLU:CG	0.54	2.56	13	1
1:B:70:PHE:CD2	1:B:71:GLN:HG3	0.54	2.37	20	1
1:A:52:VAL:HG13	1:A:79:MET:HB2	0.54	1.80	10	1
1:A:1:SER:CB	1:B:39:GLU:CD	0.54	2.81	13	1
1:A:54:ASP:O	1:A:58:GLU:CG	0.54	2.56	4	11
1:B:3:LEU:O	1:B:7:MET:CB	0.54	2.56	1	2
1:A:40:LEU:HD21	1:B:3:LEU:CD2	0.54	2.33	2	1
1:A:29:LYS:O	1:A:60:LEU:CD2	0.54	2.56	16	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:45:GLU:O	1:B:46:GLU:CG	0.54	2.56	13	1
1:B:45:GLU:N	1:B:45:GLU:OE1	0.54	2.40	16	1
1:A:13:VAL:CG1	1:A:17:TYR:OH	0.54	2.56	6	2
1:A:56:VAL:CG1	1:A:79:MET:SD	0.54	2.96	16	4
1:A:56:VAL:HG23	1:A:57:MET:N	0.54	2.18	20	8
1:A:34:GLU:OE1	1:A:38:ASN:CB	0.54	2.56	14	2
1:A:10:LEU:HB3	1:A:74:MET:HE3	0.54	1.78	13	1
1:A:3:LEU:O	1:A:7:MET:CB	0.54	2.56	8	2
1:B:56:VAL:CG1	1:B:79:MET:SD	0.54	2.96	16	4
1:B:29:LYS:O	1:B:60:LEU:CD2	0.54	2.56	8	9
1:A:78:SER:O	1:A:82:THR:CG2	0.54	2.56	6	1
1:A:5:LYS:O	1:A:9:ALA:CB	0.54	2.56	9	4
1:B:54:ASP:O	1:B:58:GLU:CG	0.54	2.56	5	11
1:B:32:LEU:HD13	1:B:73:PHE:HD1	0.54	1.58	17	2
1:B:13:VAL:CG1	1:B:17:TYR:OH	0.53	2.56	6	2
1:B:5:LYS:O	1:B:9:ALA:CB	0.53	2.56	9	4
1:B:70:PHE:CD2	1:B:71:GLN:N	0.53	2.76	19	1
1:A:81:THR:HG22	1:B:11:ILE:HD11	0.53	1.78	20	3
1:A:72:GLU:HG3	1:A:73:PHE:N	0.53	2.18	7	3
1:B:17:TYR:CD2	1:B:35:LEU:HD21	0.53	2.37	19	3
1:A:56:VAL:HG12	1:A:76:PHE:CD1	0.53	2.38	17	2
1:B:56:VAL:HA	1:B:76:PHE:CE2	0.53	2.38	6	4
1:B:52:VAL:HG13	1:B:79:MET:HB2	0.53	1.80	10	1
1:A:70:PHE:CD2	1:A:71:GLN:N	0.53	2.76	19	1
1:A:70:PHE:CD2	1:A:71:GLN:HG3	0.53	2.37	20	1
1:A:75:ALA:O	1:A:79:MET:CG	0.53	2.57	6	8
1:A:43:PHE:O	1:A:44:LEU:CB	0.53	2.56	16	1
1:A:32:LEU:HD13	1:A:73:PHE:CE1	0.53	2.38	17	1
1:B:32:LEU:HD13	1:B:73:PHE:CE1	0.53	2.39	17	1
1:B:17:TYR:OH	1:B:35:LEU:CD2	0.53	2.56	2	1
1:B:78:SER:O	1:B:82:THR:CG2	0.53	2.56	6	1
1:A:3:LEU:CD2	1:B:40:LEU:HD21	0.53	2.33	2	1
1:A:3:LEU:HB3	1:B:39:GLU:CB	0.53	2.33	11	3
1:A:11:ILE:HD11	1:B:81:THR:O	0.53	2.03	2	1
1:A:17:TYR:OH	1:A:35:LEU:CD2	0.53	2.56	2	1
1:A:40:LEU:O	1:A:41:SER:CB	0.53	2.54	11	1
1:B:52:VAL:HG13	1:B:79:MET:HB3	0.53	1.80	12	4
1:A:8:VAL:HG22	1:B:41:SER:HB3	0.53	1.79	15	1
1:B:74:MET:HA	1:B:74:MET:CE	0.53	2.33	17	3
1:A:14:PHE:CD1	1:A:73:PHE:CD2	0.53	2.97	18	2
1:B:36:ILE:HG22	1:B:40:LEU:CB	0.53	2.33	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:73:PHE:CE1	1:A:77:VAL:CG2	0.53	2.92	20	1
1:A:36:ILE:HD13	1:A:80:VAL:HG21	0.53	1.81	16	4
1:A:40:LEU:O	1:A:41:SER:C	0.53	2.50	19	9
1:B:75:ALA:O	1:B:79:MET:CG	0.53	2.57	12	8
1:A:36:ILE:O	1:A:40:LEU:CB	0.53	2.57	3	2
1:A:40:LEU:HG	1:B:3:LEU:HD23	0.53	1.81	5	5
1:A:32:LEU:HD21	1:A:76:PHE:CD2	0.53	2.39	11	3
1:B:43:PHE:O	1:B:44:LEU:CB	0.53	2.56	16	1
1:B:73:PHE:CE1	1:B:77:VAL:CG2	0.53	2.92	20	1
1:B:36:ILE:HD13	1:B:80:VAL:HG21	0.53	1.81	16	4
1:A:39:GLU:CB	1:B:3:LEU:HB3	0.53	2.34	11	4
1:A:17:TYR:CE1	1:A:35:LEU:CD2	0.53	2.89	6	1
1:B:34:GLU:OE1	1:B:38:ASN:CB	0.53	2.56	14	2
1:A:52:VAL:HG13	1:A:79:MET:HB3	0.53	1.80	12	4
1:B:15:HIS:O	1:B:15:HIS:CG	0.53	2.62	2	3
1:B:32:LEU:HD21	1:B:76:PHE:CD2	0.53	2.39	11	3
1:A:14:PHE:O	1:A:18:SER:CB	0.52	2.57	2	1
1:B:14:PHE:O	1:B:18:SER:CB	0.52	2.57	2	1
1:B:17:TYR:CE2	1:B:35:LEU:HD21	0.52	2.39	3	2
1:B:28:LYS:CG	1:B:66:GLY:O	0.52	2.57	5	3
1:A:56:VAL:HA	1:A:76:PHE:CE2	0.52	2.38	6	4
1:B:34:GLU:HG3	1:B:35:LEU:N	0.52	2.20	7	18
1:B:40:LEU:CD1	1:B:81:THR:OG1	0.52	2.58	6	4
1:A:17:TYR:CE2	1:A:35:LEU:HD21	0.52	2.39	3	2
1:B:56:VAL:HG12	1:B:76:PHE:CD1	0.52	2.38	17	2
1:A:9:ALA:HB3	1:B:6:ALA:HB1	0.52	1.80	18	7
1:A:73:PHE:C	1:A:73:PHE:CD1	0.52	2.87	15	2
1:A:17:TYR:CG	1:A:35:LEU:CD2	0.52	2.92	13	2
1:B:63:ASP:O	1:B:64:GLY:C	0.52	2.53	5	4
1:A:28:LYS:CG	1:A:66:GLY:O	0.52	2.57	5	3
1:A:40:LEU:HD23	1:A:80:VAL:CB	0.52	2.34	9	1
1:A:15:HIS:O	1:A:15:HIS:CG	0.52	2.62	2	2
1:A:28:LYS:O	1:A:32:LEU:CB	0.52	2.58	9	5
1:A:43:PHE:N	1:A:43:PHE:CD1	0.52	2.74	9	2
1:B:14:PHE:CD1	1:B:73:PHE:CD2	0.52	2.97	18	2
1:B:28:LYS:O	1:B:32:LEU:CB	0.52	2.58	9	5
1:A:34:GLU:CG	1:A:35:LEU:N	0.52	2.73	7	11
1:A:1:SER:CB	1:B:39:GLU:OE1	0.52	2.57	2	2
1:B:72:GLU:HG3	1:B:73:PHE:N	0.52	2.17	7	3
1:B:34:GLU:CG	1:B:35:LEU:N	0.52	2.73	7	11
1:A:27:LEU:O	1:A:68:CYS:CB	0.52	2.58	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:LEU:C	1:A:40:LEU:CD1	0.52	2.80	15	1
1:A:11:ILE:HD11	1:B:81:THR:HG22	0.52	1.80	20	3
1:A:56:VAL:HB	1:A:76:PHE:CE2	0.52	2.40	6	2
1:B:56:VAL:HB	1:B:76:PHE:CE2	0.52	2.40	6	2
1:B:18:SER:CB	1:B:27:LEU:CD2	0.52	2.88	7	1
1:B:17:TYR:CG	1:B:35:LEU:CD2	0.52	2.92	13	2
1:A:74:MET:HA	1:A:74:MET:CE	0.52	2.33	17	3
1:A:10:LEU:C	1:A:10:LEU:CD1	0.52	2.77	19	1
1:A:63:ASP:O	1:A:64:GLY:C	0.52	2.53	5	4
1:B:36:ILE:O	1:B:40:LEU:CB	0.52	2.57	3	2
1:B:35:LEU:HG	1:B:73:PHE:CE1	0.52	2.40	6	2
1:A:36:ILE:HG22	1:A:40:LEU:CB	0.52	2.33	13	1
1:A:40:LEU:HD21	1:B:3:LEU:HD21	0.52	1.82	2	1
1:A:13:VAL:HG11	1:B:3:LEU:CD1	0.52	2.33	3	1
1:A:41:SER:HB3	1:B:8:VAL:HG22	0.52	1.80	15	1
1:A:82:THR:CG2	1:B:70:PHE:CE2	0.52	2.81	15	1
1:B:25:HIS:NE2	1:B:70:PHE:CE2	0.52	2.78	5	1
1:A:35:LEU:HG	1:A:73:PHE:CE1	0.52	2.40	6	2
1:B:40:LEU:HD23	1:B:40:LEU:N	0.51	2.19	6	2
1:A:39:GLU:HG2	1:A:40:LEU:N	0.51	2.19	9	1
1:A:11:ILE:H	1:A:11:ILE:HD12	0.51	1.66	17	1
1:A:39:GLU:OE1	1:B:1:SER:CB	0.51	2.58	2	2
1:A:13:VAL:CG2	1:B:2:GLU:HB2	0.51	2.34	6	7
1:B:41:SER:O	1:B:44:LEU:HD13	0.51	2.06	13	1
1:B:73:PHE:CD1	1:B:73:PHE:C	0.51	2.87	13	6
1:A:3:LEU:HD21	1:B:40:LEU:HD21	0.51	1.83	2	1
1:A:70:PHE:CD2	1:B:82:THR:HG22	0.51	2.41	2	1
1:A:40:LEU:N	1:A:40:LEU:HD23	0.51	2.19	6	1
1:B:40:LEU:HD23	1:B:80:VAL:CB	0.51	2.34	9	1
1:B:27:LEU:O	1:B:68:CYS:CB	0.51	2.58	11	1
1:A:11:ILE:HG12	1:A:70:PHE:CZ	0.51	2.40	13	1
1:A:9:ALA:CB	1:B:6:ALA:CB	0.51	2.89	20	5
1:B:58:GLU:O	1:B:62:GLU:CB	0.51	2.59	13	3
1:A:18:SER:CB	1:A:27:LEU:CD2	0.51	2.88	7	1
1:A:34:GLU:HG3	1:A:35:LEU:N	0.51	2.19	7	18
1:A:41:SER:O	1:A:44:LEU:HD13	0.51	2.05	13	1
1:A:70:PHE:CE2	1:B:82:THR:CG2	0.51	2.80	15	1
1:B:10:LEU:C	1:B:10:LEU:CD2	0.51	2.75	19	1
1:A:2:GLU:HB2	1:B:13:VAL:CG2	0.51	2.33	6	7
1:B:39:GLU:HG2	1:B:40:LEU:N	0.51	2.19	9	1
1:B:56:VAL:HA	1:B:76:PHE:CZ	0.51	2.41	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:LEU:C	1:A:10:LEU:CD2	0.51	2.75	19	1
1:A:40:LEU:CD1	1:A:81:THR:OG1	0.51	2.58	6	4
1:B:11:ILE:HG12	1:B:70:PHE:CZ	0.51	2.40	13	1
1:A:29:LYS:HD2	1:A:30:SER:N	0.51	2.21	1	2
1:B:32:LEU:HD12	1:B:32:LEU:C	0.51	2.31	13	2
1:A:14:PHE:CE2	1:A:70:PHE:HA	0.51	2.41	6	5
1:B:41:SER:O	1:B:42:HIS:C	0.51	2.53	18	2
1:A:25:HIS:NE2	1:A:70:PHE:CE2	0.51	2.78	5	1
1:A:44:LEU:HD12	1:A:44:LEU:N	0.51	2.20	13	1
1:B:44:LEU:HD12	1:B:44:LEU:N	0.51	2.20	13	1
1:A:81:THR:O	1:B:11:ILE:HD11	0.50	2.05	2	1
1:B:26:LYS:O	1:B:27:LEU:CD2	0.50	2.59	14	1
1:B:11:ILE:HD12	1:B:11:ILE:H	0.50	1.65	17	1
1:B:14:PHE:CE2	1:B:70:PHE:HA	0.50	2.41	6	5
1:A:6:ALA:CB	1:B:9:ALA:CB	0.50	2.90	20	5
1:A:29:LYS:C	1:A:29:LYS:CD	0.50	2.84	13	1
1:B:41:SER:O	1:B:43:PHE:N	0.50	2.44	18	2
1:A:58:GLU:O	1:A:62:GLU:CB	0.50	2.59	13	3
1:A:29:LYS:HD3	1:A:66:GLY:N	0.50	2.22	10	1
1:A:26:LYS:O	1:A:27:LEU:CD2	0.50	2.59	14	1
1:A:70:PHE:CE1	1:A:71:GLN:HG3	0.50	2.42	4	2
1:A:36:ILE:CG2	1:A:80:VAL:CG2	0.50	2.85	12	1
1:A:44:LEU:CD1	1:A:47:ILE:CD1	0.50	2.89	12	1
1:A:82:THR:HG22	1:B:70:PHE:CD2	0.50	2.42	2	1
1:B:50:GLN:O	1:B:54:ASP:CG	0.50	2.55	16	8
1:A:41:SER:O	1:A:42:HIS:C	0.50	2.53	4	2
1:A:44:LEU:HD13	1:A:44:LEU:C	0.50	2.32	14	2
1:B:29:LYS:CD	1:B:29:LYS:C	0.50	2.84	13	1
1:A:81:THR:OG1	1:B:7:MET:CE	0.50	2.59	18	1
1:B:70:PHE:CE1	1:B:71:GLN:HG3	0.50	2.42	4	2
1:A:33:LYS:CB	1:A:60:LEU:HD22	0.50	2.37	15	4
1:B:37:ASN:O	1:B:37:ASN:ND2	0.50	2.45	9	1
1:B:14:PHE:HB2	1:B:73:PHE:CE1	0.50	2.42	8	1
1:A:7:MET:CE	1:B:81:THR:OG1	0.50	2.59	18	1
1:B:29:LYS:HD2	1:B:30:SER:N	0.50	2.21	1	2
1:A:50:GLN:O	1:A:54:ASP:CG	0.50	2.55	16	8
1:A:17:TYR:CE2	1:A:35:LEU:CD2	0.50	2.95	4	3
1:A:41:SER:O	1:A:43:PHE:N	0.50	2.44	18	2
1:A:56:VAL:HA	1:A:76:PHE:CZ	0.50	2.41	4	1
1:B:17:TYR:CE1	1:B:35:LEU:CD2	0.50	2.89	6	1
1:A:39:GLU:OE1	1:B:3:LEU:CG	0.50	2.60	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:44:LEU:CD1	1:B:47:ILE:CD1	0.50	2.90	12	1
1:A:77:VAL:O	1:A:81:THR:OG1	0.50	2.30	9	7
1:B:44:LEU:HD13	1:B:45:GLU:N	0.50	2.22	14	1
1:A:53:VAL:HG23	1:A:83:ALA:HB1	0.49	1.83	3	1
1:A:51:GLU:O	1:A:55:LYS:CB	0.49	2.60	11	3
1:A:48:LYS:CB	1:A:83:ALA:HB3	0.49	2.37	16	1
1:B:48:LYS:CB	1:B:83:ALA:HB3	0.49	2.37	16	1
1:A:41:SER:C	1:A:42:HIS:CG	0.49	2.90	18	1
1:A:75:ALA:O	1:A:79:MET:HG3	0.49	2.07	18	15
1:B:77:VAL:O	1:B:81:THR:OG1	0.49	2.30	9	9
1:A:14:PHE:HB2	1:A:73:PHE:CE1	0.49	2.42	8	1
1:A:6:ALA:HB1	1:B:10:LEU:N	0.49	2.22	19	2
1:B:51:GLU:O	1:B:55:LYS:CB	0.49	2.60	11	3
1:B:44:LEU:HD13	1:B:44:LEU:C	0.49	2.32	14	2
1:B:39:GLU:N	1:B:39:GLU:CD	0.49	2.70	19	1
1:A:39:GLU:HB3	1:B:3:LEU:CB	0.49	2.38	1	3
1:A:70:PHE:CE2	1:B:82:THR:HB	0.49	2.42	1	1
1:B:53:VAL:HG23	1:B:83:ALA:HB1	0.49	1.83	3	1
1:A:37:ASN:O	1:A:37:ASN:ND2	0.49	2.45	9	1
1:A:26:LYS:CD	1:A:26:LYS:O	0.49	2.61	3	1
1:B:29:LYS:HD3	1:B:66:GLY:N	0.49	2.22	10	1
1:B:75:ALA:O	1:B:79:MET:HG3	0.49	2.07	18	15
1:B:70:PHE:CD2	1:B:71:GLN:HG2	0.49	2.42	6	2
1:B:72:GLU:CG	1:B:73:PHE:N	0.49	2.76	7	2
1:B:40:LEU:HD21	1:B:80:VAL:HG23	0.49	1.83	9	1
1:A:39:GLU:OE2	1:B:7:MET:HB3	0.49	2.08	9	1
1:B:52:VAL:CG1	1:B:79:MET:CB	0.49	2.91	12	1
1:A:44:LEU:HD13	1:A:45:GLU:N	0.49	2.22	14	1
1:B:41:SER:C	1:B:42:HIS:CG	0.49	2.90	18	1
1:A:39:GLU:N	1:A:39:GLU:CD	0.49	2.70	19	1
1:A:52:VAL:CG1	1:A:79:MET:O	0.49	2.61	2	1
1:B:52:VAL:CG1	1:B:79:MET:O	0.49	2.61	2	1
1:A:32:LEU:CD2	1:A:68:CYS:SG	0.49	3.01	3	1
1:A:32:LEU:HD12	1:A:32:LEU:C	0.49	2.31	13	2
1:A:34:GLU:O	1:A:38:ASN:N	0.49	2.46	5	6
1:A:10:LEU:N	1:B:6:ALA:HB1	0.49	2.22	19	2
1:A:2:GLU:HB3	1:B:13:VAL:CG2	0.49	2.38	3	2
1:B:17:TYR:CE2	1:B:35:LEU:CD2	0.49	2.95	4	3
1:B:58:GLU:HG3	1:B:59:THR:N	0.49	2.23	11	1
1:A:8:VAL:CG2	1:B:41:SER:HB3	0.49	2.38	15	1
1:A:63:ASP:O	1:A:65:ASP:N	0.49	2.46	5	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:3:LEU:CD2	1:B:40:LEU:CD2	0.49	2.89	13	2
1:A:3:LEU:CD1	1:B:13:VAL:HG11	0.49	2.38	3	1
1:A:39:GLU:CD	1:B:1:SER:CB	0.49	2.86	13	1
1:A:3:LEU:CB	1:B:39:GLU:HB3	0.48	2.38	1	3
1:A:36:ILE:O	1:A:40:LEU:HB2	0.48	2.08	2	4
1:B:6:ALA:O	1:B:7:MET:C	0.48	2.56	7	10
1:A:70:PHE:CD2	1:A:71:GLN:HG2	0.48	2.42	6	2
1:A:40:LEU:HD21	1:A:80:VAL:HG23	0.48	1.83	9	1
1:A:29:LYS:HB2	1:A:60:LEU:HD23	0.48	1.85	11	1
1:A:3:LEU:CD1	1:B:10:LEU:CD2	0.48	2.79	19	1
1:B:26:LYS:O	1:B:26:LYS:CD	0.48	2.61	3	1
1:B:33:LYS:CB	1:B:60:LEU:HD22	0.48	2.37	15	4
1:A:41:SER:HB3	1:B:8:VAL:CG2	0.48	2.38	15	1
1:B:40:LEU:HG	1:B:41:SER:N	0.48	2.23	15	1
1:A:11:ILE:CD1	1:B:81:THR:CG2	0.48	2.91	19	1
1:B:34:GLU:O	1:B:38:ASN:N	0.48	2.46	6	5
1:A:44:LEU:HD21	1:A:47:ILE:HG12	0.48	1.84	14	1
1:A:40:LEU:HG	1:A:41:SER:N	0.48	2.23	15	1
1:B:32:LEU:CD2	1:B:68:CYS:SG	0.48	3.01	3	1
1:A:29:LYS:HD2	1:A:65:ASP:N	0.48	2.23	12	1
1:A:52:VAL:CG1	1:A:79:MET:CB	0.48	2.91	12	1
1:A:50:GLN:O	1:A:54:ASP:HB2	0.48	2.09	16	15
1:B:59:THR:O	1:B:63:ASP:OD2	0.48	2.32	1	1
1:A:4:GLU:O	1:A:8:VAL:HB	0.48	2.09	20	13
1:B:50:GLN:O	1:B:54:ASP:HB2	0.48	2.09	16	15
1:B:56:VAL:HB	1:B:76:PHE:CD2	0.48	2.43	1	3
1:B:63:ASP:O	1:B:65:ASP:N	0.48	2.46	5	4
1:A:36:ILE:O	1:A:40:LEU:HB3	0.48	2.08	3	3
1:B:36:ILE:O	1:B:40:LEU:HB3	0.48	2.08	3	3
1:A:17:TYR:O	1:A:18:SER:C	0.48	2.56	7	3
1:A:72:GLU:CG	1:A:73:PHE:N	0.48	2.76	7	2
1:A:35:LEU:HD13	1:A:39:GLU:HG3	0.48	1.84	14	2
1:B:29:LYS:HD2	1:B:65:ASP:N	0.48	2.23	12	1
1:B:36:ILE:HG22	1:B:40:LEU:HB2	0.48	1.84	13	1
1:B:44:LEU:HD21	1:B:47:ILE:HG12	0.48	1.84	14	1
1:A:82:THR:HB	1:B:70:PHE:CE2	0.48	2.43	1	1
1:A:17:TYR:OH	1:A:39:GLU:CD	0.48	2.57	19	3
1:B:55:LYS:HG3	1:B:56:VAL:N	0.48	2.22	14	2
1:A:56:VAL:HB	1:A:76:PHE:CD2	0.48	2.43	1	3
1:A:58:GLU:HG3	1:A:59:THR:N	0.48	2.23	11	1
1:B:29:LYS:HB2	1:B:60:LEU:HD23	0.48	1.85	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:LEU:HB3	1:A:74:MET:CE	0.48	2.39	13	1
1:A:36:ILE:HG22	1:A:40:LEU:HB2	0.48	1.84	13	1
1:B:28:LYS:O	1:B:29:LYS:C	0.48	2.56	1	2
1:B:36:ILE:O	1:B:40:LEU:HB2	0.48	2.08	2	4
1:B:49:GLU:O	1:B:50:GLN:C	0.48	2.57	16	2
1:A:3:LEU:C	1:B:39:GLU:OE1	0.48	2.57	9	1
1:A:39:GLU:OE1	1:B:3:LEU:C	0.48	2.56	9	1
1:A:29:LYS:CB	1:A:64:GLY:HA3	0.48	2.39	13	1
1:B:10:LEU:HB3	1:B:74:MET:CE	0.48	2.39	13	1
1:A:40:LEU:O	1:A:41:SER:O	0.48	2.32	19	2
1:B:40:LEU:O	1:B:41:SER:O	0.48	2.32	19	2
1:A:55:LYS:HG3	1:A:56:VAL:N	0.48	2.22	14	2
1:B:17:TYR:CZ	1:B:35:LEU:HD21	0.48	2.44	6	2
1:A:14:PHE:CE1	1:A:70:PHE:HA	0.48	2.44	8	2
1:A:25:HIS:O	1:A:25:HIS:ND1	0.48	2.47	8	1
1:B:14:PHE:CE1	1:B:70:PHE:HA	0.48	2.44	8	2
1:A:16:GLN:O	1:A:17:TYR:C	0.47	2.57	1	1
1:B:4:GLU:O	1:B:8:VAL:HB	0.47	2.09	20	14
1:A:6:ALA:O	1:A:7:MET:C	0.47	2.56	5	10
1:A:44:LEU:O	1:A:45:GLU:C	0.47	2.57	4	1
1:B:14:PHE:CZ	1:B:70:PHE:HA	0.47	2.44	9	2
1:B:25:HIS:CD2	1:B:25:HIS:O	0.47	2.67	14	2
1:B:32:LEU:HD21	1:B:76:PHE:HB3	0.47	1.86	16	1
1:B:10:LEU:C	1:B:10:LEU:CD1	0.47	2.78	19	1
1:B:39:GLU:OE1	1:B:39:GLU:CA	0.47	2.62	20	1
1:A:34:GLU:O	1:A:38:ASN:HB2	0.47	2.09	1	6
1:A:59:THR:O	1:A:63:ASP:OD2	0.47	2.32	1	1
1:A:49:GLU:O	1:A:50:GLN:C	0.47	2.57	16	3
1:A:1:SER:O	1:A:5:LYS:CG	0.47	2.61	11	1
1:B:14:PHE:CD1	1:B:70:PHE:CE2	0.47	3.02	11	1
1:B:46:GLU:O	1:B:47:ILE:O	0.47	2.33	12	3
1:B:36:ILE:CD1	1:B:60:LEU:HD11	0.47	2.39	20	1
1:B:34:GLU:O	1:B:38:ASN:HB2	0.47	2.09	1	6
1:A:43:PHE:O	1:A:44:LEU:C	0.47	2.54	5	1
1:A:39:GLU:OE1	1:B:3:LEU:HG	0.47	2.09	9	1
1:B:74:MET:CE	1:B:74:MET:HA	0.47	2.39	9	1
1:B:1:SER:O	1:B:5:LYS:CG	0.47	2.61	11	1
1:B:17:TYR:OH	1:B:39:GLU:CD	0.47	2.57	19	3
1:B:18:SER:HB2	1:B:27:LEU:CD2	0.47	2.39	7	1
1:B:14:PHE:CD1	1:B:27:LEU:HD12	0.47	2.44	8	1
1:A:29:LYS:CD	1:A:66:GLY:N	0.47	2.78	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:39:GLU:CG	1:B:4:GLU:HB2	0.47	2.39	13	1
1:B:43:PHE:O	1:B:44:LEU:C	0.47	2.54	5	1
1:B:25:HIS:O	1:B:25:HIS:ND1	0.47	2.47	8	1
1:A:40:LEU:CD2	1:B:3:LEU:CD2	0.47	2.93	2	2
1:A:18:SER:HB2	1:A:27:LEU:CD2	0.47	2.39	7	1
1:A:7:MET:HB3	1:B:39:GLU:OE2	0.47	2.09	9	1
1:B:70:PHE:CE1	1:B:74:MET:SD	0.47	3.07	10	1
1:A:12:ASP:O	1:A:13:VAL:C	0.47	2.57	13	11
1:A:17:TYR:CZ	1:A:35:LEU:HD21	0.47	2.44	6	2
1:A:82:THR:O	1:A:83:ALA:C	0.47	2.58	4	1
1:A:37:ASN:O	1:A:38:ASN:C	0.47	2.58	10	4
1:B:14:PHE:HB2	1:B:73:PHE:CZ	0.47	2.45	8	1
1:A:70:PHE:CE1	1:A:74:MET:SD	0.47	3.07	10	1
1:A:46:GLU:O	1:A:47:ILE:O	0.47	2.33	12	3
1:A:32:LEU:HD11	1:A:36:ILE:HD11	0.47	1.87	13	1
1:A:46:GLU:O	1:A:47:ILE:C	0.47	2.57	13	1
1:B:43:PHE:O	1:B:44:LEU:HD12	0.47	2.09	15	1
1:A:54:ASP:O	1:A:58:GLU:HB2	0.47	2.10	13	16
1:B:54:ASP:O	1:B:58:GLU:HB2	0.47	2.09	16	16
1:B:17:TYR:O	1:B:31:GLU:OE2	0.47	2.33	2	1
1:A:58:GLU:O	1:A:62:GLU:HB2	0.47	2.10	13	4
1:B:58:GLU:O	1:B:62:GLU:HB2	0.47	2.10	13	4
1:A:14:PHE:CZ	1:A:70:PHE:HA	0.47	2.44	9	2
1:A:34:GLU:OE1	1:A:34:GLU:C	0.47	2.58	8	1
1:B:34:GLU:OE1	1:B:34:GLU:C	0.47	2.58	8	1
1:B:35:LEU:HD13	1:B:39:GLU:HG3	0.47	1.84	14	2
1:B:29:LYS:CB	1:B:64:GLY:HA3	0.47	2.39	13	1
1:B:28:LYS:HG2	1:B:66:GLY:O	0.47	2.10	5	3
1:A:37:ASN:O	1:A:41:SER:HB3	0.47	2.09	14	3
1:A:14:PHE:CD1	1:A:27:LEU:HD12	0.47	2.44	8	1
1:B:29:LYS:HG2	1:B:30:SER:N	0.47	2.25	12	1
1:A:64:GLY:O	1:A:65:ASP:C	0.47	2.56	13	1
1:A:64:GLY:C	1:A:66:GLY:N	0.47	2.73	13	1
1:B:32:LEU:HD11	1:B:36:ILE:HD11	0.47	1.87	13	1
1:A:4:GLU:HA	1:B:40:LEU:CD2	0.47	2.40	14	1
1:A:13:VAL:CG2	1:B:2:GLU:HB3	0.47	2.40	3	3
1:A:78:SER:O	1:A:82:THR:OG1	0.47	2.32	6	3
1:B:29:LYS:CD	1:B:66:GLY:N	0.47	2.78	10	1
1:A:43:PHE:O	1:A:44:LEU:HD12	0.47	2.09	15	1
1:A:32:LEU:HD21	1:A:76:PHE:HB3	0.47	1.86	16	1
1:B:7:MET:O	1:B:11:ILE:HG13	0.47	2.10	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:78:SER:HA	1:B:7:MET:CE	0.46	2.40	15	5
1:A:3:LEU:CG	1:B:40:LEU:HD23	0.46	2.40	3	1
1:A:34:GLU:O	1:A:35:LEU:C	0.46	2.58	7	4
1:A:55:LYS:CD	1:A:55:LYS:C	0.46	2.89	10	1
1:A:14:PHE:CD1	1:A:70:PHE:CE2	0.46	3.02	11	1
1:A:68:CYS:SG	1:A:72:GLU:CD	0.46	2.98	13	1
1:B:10:LEU:CD2	1:B:74:MET:CE	0.46	2.85	13	1
1:B:27:LEU:CD1	1:B:73:PHE:CD1	0.46	2.98	17	1
1:A:49:GLU:HB3	1:A:52:VAL:CG2	0.46	2.40	11	7
1:A:17:TYR:O	1:A:31:GLU:OE2	0.46	2.33	2	1
1:A:53:VAL:O	1:A:57:MET:HB3	0.46	2.11	3	3
1:B:37:ASN:O	1:B:41:SER:HB3	0.46	2.10	14	3
1:A:39:GLU:OE1	1:B:3:LEU:O	0.46	2.33	9	1
1:B:68:CYS:SG	1:B:72:GLU:CD	0.46	2.98	13	1
1:A:10:LEU:HD13	1:A:11:ILE:CA	0.46	2.40	19	1
1:A:36:ILE:CD1	1:A:60:LEU:HD11	0.46	2.40	20	1
1:A:7:MET:CE	1:B:78:SER:HA	0.46	2.40	15	4
1:A:35:LEU:CD1	1:B:3:LEU:CD2	0.46	2.91	3	2
1:A:14:PHE:HB2	1:A:73:PHE:CZ	0.46	2.45	8	1
1:A:3:LEU:O	1:B:39:GLU:OE1	0.46	2.33	9	1
1:B:55:LYS:CD	1:B:55:LYS:C	0.46	2.89	10	1
1:A:3:LEU:O	1:A:7:MET:HB3	0.46	2.10	8	9
1:A:78:SER:O	1:A:79:MET:C	0.46	2.59	2	2
1:B:53:VAL:O	1:B:57:MET:HB3	0.46	2.11	3	3
1:A:28:LYS:HG2	1:A:66:GLY:O	0.46	2.11	5	3
1:A:29:LYS:HD3	1:A:63:ASP:O	0.46	2.11	5	2
1:B:18:SER:CB	1:B:27:LEU:HD12	0.46	2.39	4	1
1:B:44:LEU:O	1:B:45:GLU:C	0.46	2.56	4	1
1:B:34:GLU:O	1:B:34:GLU:OE1	0.46	2.33	8	1
1:B:36:ILE:CG2	1:B:80:VAL:CG2	0.46	2.85	12	1
1:B:13:VAL:O	1:B:14:PHE:C	0.46	2.59	3	4
1:A:4:GLU:HG3	1:A:8:VAL:HG21	0.46	1.88	13	1
1:A:40:LEU:CD2	1:B:4:GLU:HA	0.46	2.40	14	1
1:B:54:ASP:O	1:B:58:GLU:CB	0.46	2.64	4	9
1:B:32:LEU:O	1:B:36:ILE:HG13	0.46	2.11	5	17
1:A:40:LEU:HD12	1:A:81:THR:OG1	0.46	2.11	13	1
1:B:29:LYS:HB3	1:B:64:GLY:O	0.46	2.10	13	1
1:B:64:GLY:O	1:B:65:ASP:C	0.46	2.57	13	1
1:A:53:VAL:O	1:A:57:MET:HB2	0.46	2.11	4	4
1:B:3:LEU:O	1:B:7:MET:HB3	0.46	2.11	8	9
1:B:4:GLU:O	1:B:8:VAL:CB	0.46	2.64	20	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:12:ASP:O	1:B:13:VAL:C	0.46	2.57	13	11
1:B:40:LEU:O	1:B:42:HIS:N	0.46	2.49	2	2
1:A:18:SER:O	1:A:18:SER:OG	0.46	2.34	4	1
1:A:38:ASN:O	1:A:38:ASN:ND2	0.46	2.49	6	1
1:B:37:ASN:O	1:B:38:ASN:C	0.46	2.57	6	4
1:A:3:LEU:CD2	1:B:35:LEU:CD1	0.46	2.82	19	2
1:B:29:LYS:HE2	1:B:63:ASP:CB	0.46	2.41	10	1
1:B:64:GLY:C	1:B:66:GLY:N	0.46	2.73	13	1
1:B:54:ASP:O	1:B:54:ASP:OD1	0.46	2.34	20	1
1:B:49:GLU:HB3	1:B:52:VAL:CG2	0.46	2.40	11	7
1:A:13:VAL:O	1:A:14:PHE:C	0.46	2.59	3	4
1:B:37:ASN:O	1:B:39:GLU:N	0.46	2.49	6	1
1:A:55:LYS:O	1:A:58:GLU:HG2	0.46	2.11	11	1
1:A:37:ASN:OD1	1:A:41:SER:OG	0.46	2.34	12	1
1:B:37:ASN:OD1	1:B:41:SER:OG	0.46	2.34	12	1
1:A:7:MET:O	1:A:11:ILE:HG13	0.46	2.11	19	1
1:A:54:ASP:O	1:A:54:ASP:OD1	0.46	2.34	20	1
1:A:40:LEU:O	1:A:42:HIS:N	0.46	2.49	2	2
1:A:51:GLU:O	1:A:55:LYS:HB2	0.46	2.10	11	3
1:A:10:LEU:CD1	1:B:7:MET:SD	0.46	3.04	6	2
1:A:13:VAL:HG13	1:A:17:TYR:CZ	0.46	2.45	6	1
1:B:38:ASN:O	1:B:38:ASN:ND2	0.46	2.49	6	1
1:B:17:TYR:O	1:B:18:SER:C	0.46	2.56	7	3
1:A:29:LYS:HG2	1:A:30:SER:N	0.46	2.25	12	1
1:A:14:PHE:CE1	1:A:73:PHE:CG	0.46	3.04	18	1
1:B:10:LEU:HD13	1:B:11:ILE:CA	0.46	2.40	19	1
1:B:29:LYS:N	1:B:29:LYS:HE2	0.46	2.26	1	1
1:A:34:GLU:O	1:A:38:ASN:HB3	0.46	2.11	2	7
1:A:7:MET:SD	1:B:10:LEU:CD1	0.46	3.04	6	2
1:B:68:CYS:SG	1:B:72:GLU:OE2	0.46	2.74	7	2
1:B:29:LYS:C	1:B:29:LYS:HD2	0.46	2.36	13	1
1:B:64:GLY:O	1:B:66:GLY:O	0.46	2.34	13	1
1:A:4:GLU:HG3	1:B:39:GLU:O	0.46	2.11	15	1
1:A:81:THR:CG2	1:B:11:ILE:CD1	0.46	2.94	19	2
1:A:9:ALA:HB1	1:B:6:ALA:HB2	0.46	1.86	20	1
1:A:32:LEU:O	1:A:36:ILE:HG13	0.45	2.11	16	18
1:B:71:GLN:HG3	1:B:72:GLU:N	0.45	2.26	7	5
1:A:37:ASN:O	1:A:41:SER:HB2	0.45	2.10	10	3
1:B:34:GLU:O	1:B:35:LEU:C	0.45	2.58	7	4
1:B:54:ASP:O	1:B:58:GLU:OE1	0.45	2.33	17	2
1:B:4:GLU:CD	1:B:4:GLU:C	0.45	2.84	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:LYS:HB3	1:A:64:GLY:O	0.45	2.10	13	1
1:B:70:PHE:CE1	1:B:74:MET:CG	0.45	2.99	13	1
1:A:7:MET:HA	1:B:10:LEU:CD1	0.45	2.41	17	1
1:A:6:ALA:HB2	1:B:9:ALA:HB1	0.45	1.88	20	1
1:A:39:GLU:HA	1:A:39:GLU:OE1	0.45	2.11	20	1
1:B:34:GLU:O	1:B:38:ASN:HB3	0.45	2.11	2	7
1:A:41:SER:C	1:A:43:PHE:N	0.45	2.74	18	2
1:A:54:ASP:O	1:A:58:GLU:HG3	0.45	2.11	19	10
1:A:54:ASP:O	1:A:58:GLU:OE1	0.45	2.33	17	2
1:B:56:VAL:CA	1:B:76:PHE:CE2	0.45	2.99	6	1
1:A:4:GLU:CD	1:A:4:GLU:C	0.45	2.84	7	1
1:A:3:LEU:CG	1:B:39:GLU:OE1	0.45	2.64	9	1
1:A:27:LEU:O	1:A:68:CYS:HB2	0.45	2.11	11	1
1:B:55:LYS:O	1:B:58:GLU:HG2	0.45	2.11	11	1
1:A:10:LEU:CD2	1:A:74:MET:CE	0.45	2.85	13	1
1:A:10:LEU:HD21	1:A:77:VAL:HG11	0.45	1.87	15	1
1:A:4:GLU:O	1:A:8:VAL:CB	0.45	2.64	20	6
1:B:51:GLU:O	1:B:55:LYS:HB2	0.45	2.12	5	4
1:B:52:VAL:O	1:B:55:LYS:HG2	0.45	2.12	14	2
1:A:62:GLU:O	1:A:63:ASP:OD1	0.45	2.34	4	1
1:A:69:ASP:N	1:A:69:ASP:OD1	0.45	2.49	4	1
1:B:11:ILE:HD12	1:B:11:ILE:N	0.45	2.26	17	2
1:B:29:LYS:HD3	1:B:63:ASP:O	0.45	2.11	5	2
1:B:43:PHE:O	1:B:44:LEU:O	0.45	2.34	5	1
1:A:56:VAL:CA	1:A:76:PHE:CE2	0.45	2.99	6	1
1:B:29:LYS:HG3	1:B:64:GLY:C	0.45	2.36	10	1
1:A:7:MET:HG2	1:B:81:THR:HG21	0.45	1.85	13	1
1:A:29:LYS:C	1:A:29:LYS:HD2	0.45	2.37	13	1
1:A:64:GLY:O	1:A:66:GLY:O	0.45	2.34	13	1
1:A:31:GLU:OE2	1:A:34:GLU:OE2	0.45	2.34	15	1
1:A:3:LEU:HD12	1:B:10:LEU:HD23	0.45	1.80	19	1
1:A:54:ASP:O	1:A:58:GLU:CB	0.45	2.64	4	9
1:B:16:GLN:O	1:B:17:TYR:C	0.45	2.57	1	1
1:B:54:ASP:O	1:B:58:GLU:HG3	0.45	2.11	4	11
1:A:18:SER:CB	1:A:27:LEU:HD12	0.45	2.39	4	1
1:A:37:ASN:O	1:A:39:GLU:N	0.45	2.49	6	1
1:B:13:VAL:HG13	1:B:17:TYR:CZ	0.45	2.45	6	1
1:A:68:CYS:SG	1:A:72:GLU:OE2	0.45	2.74	7	2
1:A:34:GLU:O	1:A:34:GLU:OE1	0.45	2.33	8	1
1:A:29:LYS:HG3	1:A:64:GLY:C	0.45	2.36	10	1
1:A:77:VAL:O	1:B:7:MET:HE2	0.45	2.11	12	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:46:GLU:O	1:B:47:ILE:C	0.45	2.57	13	1
1:A:39:GLU:HB3	1:B:3:LEU:HB3	0.45	1.89	14	2
1:A:28:LYS:O	1:A:29:LYS:C	0.45	2.56	1	2
1:A:7:MET:HE3	1:B:77:VAL:O	0.45	2.12	2	2
1:A:28:LYS:C	1:A:68:CYS:SG	0.45	3.00	11	2
1:B:5:LYS:HD3	1:B:6:ALA:N	0.45	2.26	10	1
1:B:78:SER:O	1:B:82:THR:OG1	0.45	2.34	18	3
1:A:7:MET:HE2	1:B:77:VAL:O	0.45	2.11	11	3
1:A:4:GLU:HB2	1:B:39:GLU:CG	0.45	2.41	13	1
1:A:44:LEU:HD11	1:A:47:ILE:HD11	0.45	1.88	14	1
1:B:14:PHE:CE1	1:B:73:PHE:CG	0.45	3.04	18	1
1:B:53:VAL:O	1:B:57:MET:HB2	0.45	2.10	1	4
1:A:71:GLN:HG3	1:A:72:GLU:N	0.45	2.26	7	5
1:A:52:VAL:HG11	1:A:83:ALA:HB2	0.45	1.88	9	2
1:A:5:LYS:HD3	1:A:6:ALA:N	0.45	2.26	10	1
1:A:27:LEU:O	1:A:68:CYS:SG	0.45	2.75	11	1
1:B:54:ASP:O	1:B:58:GLU:HB3	0.45	2.11	11	1
1:A:40:LEU:HD23	1:A:40:LEU:N	0.45	2.25	13	1
1:A:70:PHE:CE1	1:A:74:MET:CG	0.45	2.99	13	1
1:B:4:GLU:HG3	1:B:8:VAL:HG21	0.45	1.88	13	1
1:B:10:LEU:HD21	1:B:77:VAL:HG11	0.45	1.87	15	1
1:A:14:PHE:CE1	1:A:18:SER:CB	0.45	3.00	17	1
1:A:52:VAL:O	1:A:55:LYS:HG2	0.45	2.12	14	2
1:A:43:PHE:O	1:A:44:LEU:O	0.45	2.34	5	1
1:B:78:SER:O	1:B:79:MET:C	0.45	2.59	2	1
1:A:49:GLU:CG	1:A:83:ALA:O	0.45	2.65	4	1
1:B:82:THR:O	1:B:83:ALA:C	0.45	2.58	4	1
1:A:29:LYS:HE2	1:A:63:ASP:CB	0.45	2.41	10	1
1:A:36:ILE:HG22	1:A:40:LEU:CD2	0.45	2.40	15	1
1:A:40:LEU:CG	1:A:41:SER:N	0.45	2.80	15	1
1:B:42:HIS:HB2	1:B:80:VAL:O	0.45	2.11	18	1
1:B:63:ASP:C	1:B:65:ASP:N	0.45	2.73	5	4
1:B:62:GLU:O	1:B:63:ASP:OD1	0.45	2.34	4	1
1:A:46:GLU:O	1:A:47:ILE:HB	0.45	2.12	5	7
1:B:40:LEU:HD12	1:B:81:THR:OG1	0.45	2.10	13	1
1:A:54:ASP:OD2	1:A:58:GLU:OE2	0.45	2.35	14	1
1:A:39:GLU:OE1	1:A:39:GLU:CA	0.45	2.62	20	1
1:A:3:LEU:HB3	1:B:39:GLU:HB3	0.45	1.89	14	4
1:A:77:VAL:O	1:B:7:MET:HE3	0.45	2.12	2	2
1:B:10:LEU:O	1:B:11:ILE:C	0.45	2.60	9	6
1:B:46:GLU:O	1:B:47:ILE:HB	0.45	2.12	5	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:50:GLN:O	1:B:54:ASP:HB3	0.45	2.12	17	4
1:B:49:GLU:CG	1:B:83:ALA:O	0.45	2.65	4	1
1:B:37:ASN:O	1:B:41:SER:HB2	0.45	2.10	10	3
1:A:73:PHE:CD1	1:A:74:MET:N	0.45	2.85	7	1
1:B:50:GLN:O	1:B:54:ASP:OD1	0.45	2.35	9	1
1:A:46:GLU:O	1:A:46:GLU:CG	0.45	2.64	11	1
1:A:54:ASP:O	1:A:58:GLU:HB3	0.45	2.11	11	1
1:A:47:ILE:O	1:A:47:ILE:CG2	0.45	2.66	12	1
1:B:54:ASP:OD2	1:B:58:GLU:OE2	0.45	2.35	14	1
1:B:31:GLU:OE2	1:B:34:GLU:OE2	0.45	2.34	15	1
1:A:43:PHE:CD1	1:A:43:PHE:N	0.45	2.85	16	1
1:A:27:LEU:CD1	1:A:73:PHE:CD1	0.45	2.98	17	1
1:A:75:ALA:O	1:A:79:MET:HG2	0.44	2.12	2	3
1:B:28:LYS:C	1:B:68:CYS:SG	0.44	3.00	11	2
1:B:26:LYS:O	1:B:26:LYS:CG	0.44	2.64	3	1
1:A:44:LEU:O	1:A:46:GLU:N	0.44	2.50	4	1
1:A:29:LYS:CD	1:A:63:ASP:O	0.44	2.65	5	1
1:B:52:VAL:HG11	1:B:83:ALA:HB2	0.44	1.88	9	2
1:A:41:SER:O	1:A:41:SER:OG	0.44	2.34	10	1
1:B:46:GLU:O	1:B:46:GLU:CG	0.44	2.64	11	1
1:A:39:GLU:O	1:B:4:GLU:HG3	0.44	2.12	15	1
1:A:37:ASN:O	1:A:37:ASN:OD1	0.44	2.35	1	2
1:B:27:LEU:O	1:B:68:CYS:SG	0.44	2.75	11	1
1:B:1:SER:O	1:B:5:LYS:HG3	0.44	2.12	17	1
1:A:29:LYS:N	1:A:29:LYS:HE2	0.44	2.26	1	1
1:A:70:PHE:CZ	1:A:71:GLN:HG2	0.44	2.47	1	1
1:A:3:LEU:CD2	1:B:35:LEU:HD12	0.44	2.42	9	2
1:A:26:LYS:O	1:A:26:LYS:CG	0.44	2.65	3	1
1:A:29:LYS:HB3	1:A:60:LEU:HD23	0.44	1.89	4	1
1:B:69:ASP:OD1	1:B:69:ASP:N	0.44	2.49	4	1
1:B:73:PHE:CD1	1:B:74:MET:N	0.44	2.85	7	1
1:A:13:VAL:HG21	1:B:3:LEU:CA	0.44	2.41	13	1
1:B:37:ASN:OD1	1:B:37:ASN:O	0.44	2.35	1	2
1:A:10:LEU:O	1:A:11:ILE:C	0.44	2.58	2	4
1:B:56:VAL:CG2	1:B:57:MET:N	0.44	2.81	16	7
1:A:49:GLU:HG3	1:A:83:ALA:O	0.44	2.12	4	1
1:A:28:LYS:O	1:A:30:SER:N	0.44	2.50	7	1
1:B:40:LEU:C	1:B:40:LEU:CD1	0.44	2.80	15	1
1:A:7:MET:HE3	1:B:81:THR:HG1	0.44	1.73	17	1
1:B:27:LEU:O	1:B:68:CYS:HB2	0.44	2.11	11	1
1:A:56:VAL:HG12	1:A:76:PHE:CG	0.44	2.47	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:44:LEU:HD11	1:B:47:ILE:CG1	0.44	2.42	14	1
1:A:43:PHE:C	1:A:45:GLU:OE1	0.44	2.60	16	1
1:A:53:VAL:HG23	1:A:83:ALA:CB	0.44	2.42	18	4
1:A:50:GLN:O	1:A:54:ASP:HB3	0.44	2.11	8	4
1:B:68:CYS:HB3	1:B:72:GLU:CD	0.44	2.37	13	2
1:A:27:LEU:CD2	1:A:31:GLU:HB3	0.44	2.43	9	1
1:B:47:ILE:O	1:B:47:ILE:CG2	0.44	2.65	12	1
1:A:54:ASP:OD2	1:A:58:GLU:CD	0.44	2.61	14	1
1:B:54:ASP:OD2	1:B:58:GLU:CD	0.44	2.61	14	1
1:B:41:SER:C	1:B:43:PHE:N	0.44	2.74	18	2
1:A:10:LEU:CD1	1:B:7:MET:HA	0.44	2.43	17	1
1:B:39:GLU:OE1	1:B:39:GLU:HA	0.44	2.11	20	1
1:A:63:ASP:C	1:A:65:ASP:N	0.44	2.73	5	4
1:A:14:PHE:CD1	1:A:14:PHE:C	0.44	2.96	4	1
1:B:29:LYS:CE	1:B:59:THR:HG22	0.44	2.43	4	2
1:B:49:GLU:HG3	1:B:83:ALA:O	0.44	2.12	4	1
1:B:49:GLU:C	1:B:51:GLU:N	0.44	2.76	6	1
1:A:29:LYS:HG3	1:A:64:GLY:CA	0.44	2.43	10	1
1:B:27:LEU:O	1:B:67:GLU:HB2	0.44	2.13	12	1
1:A:2:GLU:C	1:B:13:VAL:CG2	0.44	2.91	13	1
1:A:44:LEU:HD11	1:A:47:ILE:CG1	0.44	2.42	14	1
1:A:70:PHE:CD1	1:A:70:PHE:N	0.44	2.86	15	1
1:B:70:PHE:CD1	1:B:70:PHE:N	0.44	2.86	15	1
1:B:43:PHE:C	1:B:45:GLU:OE1	0.44	2.60	16	1
1:B:14:PHE:CE1	1:B:18:SER:CB	0.44	3.00	17	1
1:B:53:VAL:HG23	1:B:83:ALA:CB	0.44	2.42	18	4
1:A:3:LEU:O	1:A:4:GLU:C	0.44	2.59	4	1
1:A:38:ASN:C	1:A:38:ASN:ND2	0.44	2.76	6	1
1:B:6:ALA:O	1:B:9:ALA:HB3	0.44	2.13	8	2
1:A:2:GLU:CB	1:B:13:VAL:HG22	0.44	2.43	1	1
1:A:35:LEU:HD12	1:B:3:LEU:CD2	0.44	2.42	3	1
1:B:44:LEU:O	1:B:46:GLU:N	0.44	2.50	4	1
1:B:40:LEU:C	1:B:42:HIS:N	0.44	2.75	9	1
1:B:10:LEU:HD11	1:B:74:MET:CE	0.44	2.43	19	1
1:A:52:VAL:CG1	1:A:83:ALA:HB2	0.43	2.43	7	3
1:A:56:VAL:CG2	1:A:57:MET:N	0.43	2.81	16	5
1:B:3:LEU:O	1:B:4:GLU:C	0.43	2.59	4	1
1:B:29:LYS:HB3	1:B:60:LEU:HD23	0.43	1.89	4	1
1:A:54:ASP:O	1:A:58:GLU:OE2	0.43	2.36	7	1
1:A:4:GLU:HA	1:B:39:GLU:CD	0.43	2.37	9	2
1:B:29:LYS:HE2	1:B:64:GLY:C	0.43	2.38	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:14:PHE:CE1	1:B:27:LEU:CD2	0.43	3.01	14	1
1:B:40:LEU:CG	1:B:41:SER:N	0.43	2.80	15	1
1:B:70:PHE:CZ	1:B:71:GLN:HG2	0.43	2.48	1	1
1:B:75:ALA:O	1:B:79:MET:HG2	0.43	2.11	2	3
1:B:52:VAL:CG1	1:B:83:ALA:HB2	0.43	2.43	7	3
1:B:29:LYS:CD	1:B:63:ASP:O	0.43	2.65	5	1
1:A:49:GLU:C	1:A:51:GLU:N	0.43	2.76	6	2
1:B:52:VAL:CG1	1:B:79:MET:HB3	0.43	2.43	14	4
1:B:29:LYS:HG3	1:B:64:GLY:CA	0.43	2.43	10	1
1:B:46:GLU:O	1:B:46:GLU:HG2	0.43	2.13	11	1
1:B:44:LEU:HD11	1:B:47:ILE:HD11	0.43	1.89	14	1
1:B:32:LEU:HD22	1:B:73:PHE:HA	0.43	1.89	16	1
1:B:49:GLU:OE2	1:B:51:GLU:HB2	0.43	2.14	16	1
1:A:36:ILE:HA	1:A:40:LEU:CD2	0.43	2.43	20	2
1:A:39:GLU:CG	1:B:3:LEU:HB3	0.43	2.43	2	1
1:B:40:LEU:HD11	1:B:81:THR:OG1	0.43	2.13	4	2
1:A:46:GLU:O	1:A:47:ILE:CB	0.43	2.64	5	1
1:B:28:LYS:O	1:B:30:SER:N	0.43	2.50	7	1
1:A:52:VAL:CG1	1:A:79:MET:HB3	0.43	2.43	15	5
1:A:50:GLN:O	1:A:54:ASP:OD1	0.43	2.35	9	1
1:A:1:SER:OG	1:A:2:GLU:N	0.43	2.50	11	1
1:B:1:SER:O	1:B:5:LYS:CD	0.43	2.66	11	1
1:A:32:LEU:HD22	1:A:73:PHE:HA	0.43	1.89	16	1
1:B:49:GLU:CD	1:B:52:VAL:HG23	0.43	2.38	1	3
1:B:36:ILE:HA	1:B:40:LEU:CD2	0.43	2.43	20	2
1:A:37:ASN:C	1:A:39:GLU:N	0.43	2.76	6	1
1:A:68:CYS:HB3	1:A:72:GLU:CD	0.43	2.38	13	2
1:A:27:LEU:O	1:A:67:GLU:HB2	0.43	2.13	12	1
1:B:44:LEU:C	1:B:44:LEU:CD1	0.43	2.92	14	1
1:B:36:ILE:HG22	1:B:40:LEU:CD2	0.43	2.40	15	1
1:B:49:GLU:CB	1:B:83:ALA:HB1	0.43	2.37	16	1
1:A:39:GLU:HG2	1:B:1:SER:CB	0.43	2.44	17	1
1:A:44:LEU:HG	1:A:47:ILE:HD11	0.43	1.90	18	1
1:B:40:LEU:HD22	1:B:40:LEU:HA	0.43	1.67	18	1
1:B:44:LEU:HG	1:B:47:ILE:HD11	0.43	1.90	18	1
1:B:7:MET:SD	1:B:7:MET:C	0.43	3.01	2	1
1:A:40:LEU:C	1:A:42:HIS:N	0.43	2.75	9	2
1:A:35:LEU:O	1:A:39:GLU:HB2	0.43	2.14	5	1
1:B:27:LEU:CD2	1:B:31:GLU:HB3	0.43	2.43	9	1
1:A:13:VAL:CG2	1:B:2:GLU:C	0.43	2.92	13	1
1:A:32:LEU:HD21	1:A:76:PHE:CB	0.43	2.43	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:42:HIS:HB2	1:A:80:VAL:O	0.43	2.11	18	1
1:A:10:LEU:CD2	1:B:3:LEU:CD1	0.43	2.81	19	1
1:A:29:LYS:CE	1:A:59:THR:HG22	0.43	2.43	4	2
1:B:55:LYS:HD3	1:B:55:LYS:C	0.43	2.39	4	1
1:A:28:LYS:C	1:A:30:SER:N	0.43	2.76	7	1
1:A:3:LEU:CD1	1:B:10:LEU:HD21	0.43	2.43	12	1
1:A:36:ILE:HG21	1:A:80:VAL:CG2	0.43	2.36	12	1
1:A:29:LYS:HE2	1:A:64:GLY:C	0.43	2.38	13	1
1:B:74:MET:CA	1:B:74:MET:HE3	0.43	2.43	14	1
1:A:1:SER:O	1:A:5:LYS:HG3	0.43	2.12	17	1
1:A:27:LEU:HD22	1:A:31:GLU:HB3	0.43	1.91	19	1
1:B:14:PHE:CD1	1:B:14:PHE:C	0.43	2.96	4	1
1:B:37:ASN:C	1:B:39:GLU:N	0.43	2.76	6	1
1:B:54:ASP:O	1:B:58:GLU:OE2	0.43	2.36	7	1
1:A:3:LEU:HG	1:B:39:GLU:OE1	0.43	2.13	9	1
1:A:10:LEU:HD13	1:A:74:MET:HE2	0.43	1.89	10	1
1:A:74:MET:CA	1:A:74:MET:HE3	0.43	2.43	14	2
1:A:10:LEU:HD23	1:B:3:LEU:HD12	0.43	1.80	19	1
1:B:27:LEU:HD22	1:B:31:GLU:HB3	0.43	1.91	19	1
1:A:13:VAL:HG22	1:B:2:GLU:CB	0.43	2.44	1	1
1:B:1:SER:OG	1:B:4:GLU:HB3	0.43	2.14	18	4
1:A:40:LEU:HD11	1:A:81:THR:OG1	0.43	2.13	4	2
1:B:46:GLU:O	1:B:47:ILE:CB	0.43	2.64	5	1
1:B:38:ASN:C	1:B:38:ASN:ND2	0.43	2.76	6	1
1:A:6:ALA:O	1:A:9:ALA:HB3	0.43	2.13	8	2
1:A:7:MET:CE	1:A:74:MET:SD	0.43	3.07	8	1
1:A:1:SER:O	1:A:5:LYS:CD	0.43	2.66	11	1
1:B:32:LEU:HD21	1:B:76:PHE:CB	0.43	2.43	16	1
1:A:49:GLU:CD	1:A:52:VAL:HG23	0.43	2.39	18	3
1:A:1:SER:OG	1:A:4:GLU:HB3	0.43	2.14	18	4
1:A:40:LEU:CD1	1:B:7:MET:HG2	0.43	2.44	4	1
1:A:55:LYS:HD3	1:A:55:LYS:C	0.43	2.39	4	1
1:B:35:LEU:O	1:B:39:GLU:HB2	0.43	2.14	5	2
1:A:17:TYR:O	1:A:31:GLU:OE1	0.43	2.37	6	1
1:A:29:LYS:CE	1:A:63:ASP:HB3	0.43	2.44	7	1
1:A:25:HIS:C	1:A:26:LYS:HG2	0.43	2.39	11	1
1:A:14:PHE:CE1	1:A:27:LEU:CD2	0.43	3.01	14	1
1:A:40:LEU:HG	1:A:77:VAL:HG13	0.43	1.90	3	1
1:B:17:TYR:O	1:B:31:GLU:OE1	0.43	2.37	6	1
1:B:28:LYS:C	1:B:30:SER:N	0.43	2.76	7	1
1:B:29:LYS:CE	1:B:63:ASP:HB3	0.43	2.44	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:7:MET:CE	1:B:74:MET:SD	0.43	3.07	8	1
1:B:56:VAL:HG12	1:B:76:PHE:CG	0.43	2.48	12	1
1:A:27:LEU:CD1	1:A:31:GLU:HB3	0.43	2.44	13	1
1:A:62:GLU:O	1:A:63:ASP:HB2	0.43	2.14	13	1
1:A:25:HIS:CD2	1:A:25:HIS:O	0.43	2.71	17	1
1:A:7:MET:HA	1:A:7:MET:HE3	0.43	1.91	20	1
1:A:44:LEU:C	1:A:46:GLU:N	0.42	2.76	4	1
1:B:10:LEU:HD13	1:B:74:MET:HE2	0.42	1.88	10	1
1:B:18:SER:OG	1:B:26:LYS:O	0.42	2.34	12	1
1:A:80:VAL:CG2	1:A:81:THR:N	0.42	2.82	19	2
1:A:27:LEU:HD21	1:A:31:GLU:OE1	0.42	2.14	19	1
1:B:27:LEU:HD21	1:B:31:GLU:OE1	0.42	2.14	19	1
1:A:1:SER:HG	1:B:39:GLU:CD	0.42	2.21	2	1
1:A:1:SER:OG	1:B:39:GLU:OE1	0.42	2.36	2	1
1:A:18:SER:HA	1:A:27:LEU:CD1	0.42	2.44	2	1
1:A:71:GLN:CD	1:B:82:THR:HB	0.42	2.40	8	1
1:A:82:THR:CG2	1:B:74:MET:HG2	0.42	2.43	10	1
1:B:70:PHE:CE1	1:B:74:MET:HG2	0.42	2.49	13	1
1:A:7:MET:CG	1:B:81:THR:CG2	0.42	2.95	16	1
1:A:31:GLU:O	1:A:35:LEU:HB2	0.42	2.15	1	2
1:A:3:LEU:HG	1:B:40:LEU:HD23	0.42	1.92	3	1
1:A:29:LYS:HD3	1:A:63:ASP:C	0.42	2.39	5	1
1:B:31:GLU:O	1:B:34:GLU:HG2	0.42	2.15	15	10
1:B:46:GLU:O	1:B:46:GLU:HG3	0.42	2.13	5	1
1:A:53:VAL:HG22	1:A:80:VAL:HG12	0.42	1.92	11	1
1:B:44:LEU:HD21	1:B:53:VAL:HG11	0.42	1.91	11	1
1:A:49:GLU:OE2	1:A:51:GLU:HB2	0.42	2.14	16	1
1:A:1:SER:CB	1:B:39:GLU:HG2	0.42	2.44	17	1
1:A:27:LEU:HD13	1:A:73:PHE:CE1	0.42	2.49	17	1
1:A:36:ILE:HA	1:A:40:LEU:HD22	0.42	1.91	20	1
1:A:35:LEU:C	1:A:35:LEU:CD1	0.42	2.92	2	1
1:B:40:LEU:HG	1:B:77:VAL:HG13	0.42	1.90	3	1
1:A:63:ASP:O	1:A:66:GLY:N	0.42	2.53	5	1
1:A:37:ASN:O	1:A:41:SER:OG	0.42	2.37	12	1
1:B:36:ILE:HG21	1:B:80:VAL:CG2	0.42	2.36	12	1
1:B:27:LEU:HD13	1:B:73:PHE:CE1	0.42	2.49	17	1
1:B:30:SER:HB2	1:B:64:GLY:O	0.42	2.15	17	1
1:A:10:LEU:HD11	1:A:74:MET:CE	0.42	2.43	19	1
1:A:39:GLU:OE1	1:B:1:SER:OG	0.42	2.37	2	1
1:B:18:SER:HA	1:B:27:LEU:CD1	0.42	2.44	2	1
1:B:44:LEU:C	1:B:46:GLU:N	0.42	2.76	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:29:LYS:HD3	1:B:63:ASP:C	0.42	2.39	5	1
1:A:31:GLU:O	1:A:34:GLU:HG2	0.42	2.15	15	7
1:A:39:GLU:CD	1:B:4:GLU:HA	0.42	2.39	9	2
1:B:1:SER:O	1:B:5:LYS:HD3	0.42	2.14	11	1
1:B:36:ILE:CG2	1:B:40:LEU:CB	0.42	2.97	13	1
1:B:62:GLU:O	1:B:63:ASP:HB2	0.42	2.14	13	1
1:B:45:GLU:HG3	1:B:46:GLU:N	0.42	2.30	15	1
1:A:70:PHE:CD2	1:A:71:GLN:CG	0.42	3.03	20	1
1:A:3:LEU:HB3	1:B:39:GLU:CG	0.42	2.44	2	1
1:A:40:LEU:HD23	1:B:3:LEU:CG	0.42	2.45	3	1
1:A:56:VAL:CG1	1:A:76:PHE:CE2	0.42	3.03	4	1
1:A:82:THR:HB	1:B:71:GLN:CD	0.42	2.39	8	1
1:B:53:VAL:HG22	1:B:80:VAL:HG12	0.42	1.92	11	1
1:A:7:MET:SD	1:B:81:THR:OG1	0.42	2.75	16	1
1:B:40:LEU:O	1:B:41:SER:HB2	0.42	2.15	18	1
1:B:70:PHE:O	1:B:74:MET:HG2	0.42	2.15	19	1
1:B:80:VAL:CG2	1:B:81:THR:N	0.42	2.82	19	1
1:A:7:MET:C	1:A:7:MET:SD	0.42	3.01	2	1
1:A:71:GLN:CD	1:B:82:THR:O	0.42	2.62	2	1
1:B:35:LEU:C	1:B:35:LEU:CD1	0.42	2.92	2	1
1:A:13:VAL:CG2	1:B:2:GLU:CB	0.42	2.98	6	1
1:A:74:MET:HG2	1:B:82:THR:CG2	0.42	2.43	10	1
1:A:10:LEU:HD21	1:B:3:LEU:CD1	0.42	2.44	12	1
1:A:39:GLU:O	1:A:40:LEU:C	0.42	2.63	12	1
1:A:36:ILE:CG2	1:A:40:LEU:CB	0.42	2.97	13	1
1:A:44:LEU:C	1:A:44:LEU:CD1	0.42	2.92	14	1
1:A:29:LYS:CE	1:A:59:THR:O	0.42	2.68	17	1
1:A:29:LYS:HD3	1:A:64:GLY:HA2	0.42	1.91	1	1
1:A:82:THR:O	1:B:71:GLN:CD	0.42	2.63	2	1
1:A:46:GLU:O	1:A:46:GLU:HG2	0.42	2.13	11	1
1:B:1:SER:OG	1:B:2:GLU:N	0.42	2.51	11	1
1:B:44:LEU:HD13	1:B:47:ILE:CD1	0.42	2.45	12	1
1:A:4:GLU:N	1:B:39:GLU:HG2	0.42	2.29	20	1
1:B:31:GLU:O	1:B:35:LEU:HB2	0.42	2.15	1	2
1:A:40:LEU:HD22	1:A:40:LEU:HA	0.42	1.67	3	2
1:A:43:PHE:O	1:A:44:LEU:HB2	0.42	2.15	4	1
1:A:2:GLU:CB	1:B:13:VAL:CG2	0.42	2.97	6	1
1:B:72:GLU:C	1:B:74:MET:N	0.42	2.77	9	1
1:A:1:SER:O	1:A:5:LYS:HD3	0.42	2.14	11	1
1:B:25:HIS:C	1:B:26:LYS:HG2	0.42	2.39	11	1
1:B:37:ASN:O	1:B:41:SER:OG	0.42	2.37	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:70:PHE:CE1	1:A:74:MET:HG2	0.42	2.49	13	1
1:B:29:LYS:HB3	1:B:64:GLY:C	0.42	2.40	13	1
1:A:29:LYS:HE2	1:A:59:THR:O	0.42	2.15	17	1
1:B:14:PHE:CE2	1:B:70:PHE:CB	0.42	3.03	19	1
1:A:73:PHE:CE1	1:A:77:VAL:HG21	0.42	2.50	20	1
1:B:36:ILE:HA	1:B:40:LEU:HD22	0.42	1.91	20	1
1:B:70:PHE:CD2	1:B:71:GLN:CG	0.42	3.03	20	1
1:B:17:TYR:OH	1:B:35:LEU:HD21	0.42	2.14	2	1
1:A:49:GLU:HB3	1:A:52:VAL:HG23	0.42	1.92	11	2
1:A:29:LYS:CG	1:A:64:GLY:C	0.42	2.93	10	1
1:B:29:LYS:CG	1:B:64:GLY:C	0.42	2.93	10	1
1:A:44:LEU:O	1:A:45:GLU:HB2	0.42	2.15	13	1
1:B:27:LEU:CD1	1:B:31:GLU:HB3	0.42	2.44	13	1
1:A:49:GLU:CB	1:A:83:ALA:HB1	0.42	2.37	16	1
1:B:65:ASP:O	1:B:65:ASP:CG	0.42	2.63	19	1
1:B:70:PHE:O	1:B:74:MET:HG3	0.41	2.15	5	1
1:A:44:LEU:HD21	1:A:53:VAL:HG11	0.41	1.91	11	1
1:A:74:MET:HE3	1:A:74:MET:C	0.41	2.39	14	1
1:B:38:ASN:O	1:B:39:GLU:C	0.41	2.60	16	1
1:A:30:SER:HB2	1:A:64:GLY:O	0.41	2.15	17	1
1:A:43:PHE:O	1:A:45:GLU:HG2	0.41	2.15	17	1
1:B:29:LYS:HE2	1:B:59:THR:O	0.41	2.15	17	1
1:A:40:LEU:O	1:A:41:SER:HB2	0.41	2.14	18	1
1:B:2:GLU:OE1	1:B:2:GLU:CA	0.41	2.68	18	1
1:A:27:LEU:HD23	1:A:27:LEU:HA	0.41	1.73	19	1
1:A:35:LEU:HG	1:A:73:PHE:CZ	0.41	2.50	20	1
1:A:72:GLU:OE1	1:A:72:GLU:C	0.41	2.63	2	1
1:B:56:VAL:CG1	1:B:76:PHE:CE2	0.41	3.03	4	2
1:B:56:VAL:HG11	1:B:79:MET:SD	0.41	2.54	9	1
1:B:41:SER:O	1:B:41:SER:OG	0.41	2.34	10	1
1:A:29:LYS:HE2	1:A:65:ASP:N	0.41	2.30	13	1
1:A:36:ILE:CG2	1:A:40:LEU:HB2	0.41	2.45	13	1
1:B:44:LEU:O	1:B:45:GLU:HB2	0.41	2.15	13	1
1:B:49:GLU:HB2	1:B:83:ALA:CB	0.41	2.45	13	1
1:B:37:ASN:OD1	1:B:37:ASN:C	0.41	2.63	14	1
1:B:74:MET:HE3	1:B:74:MET:C	0.41	2.39	14	1
1:B:55:LYS:HZ3	1:B:79:MET:HE1	0.41	1.71	15	1
1:A:70:PHE:O	1:A:74:MET:HG2	0.41	2.15	19	1
1:A:26:LYS:HD2	1:A:26:LYS:C	0.41	2.40	20	1
1:B:7:MET:HE3	1:B:7:MET:HA	0.41	1.92	20	1
1:A:7:MET:HG2	1:B:40:LEU:CD1	0.41	2.45	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:63:ASP:O	1:B:66:GLY:N	0.41	2.53	5	1
1:A:28:LYS:O	1:A:32:LEU:HB3	0.41	2.16	9	1
1:A:47:ILE:HD11	1:A:53:VAL:HG21	0.41	1.92	12	1
1:A:29:LYS:HB3	1:A:64:GLY:C	0.41	2.40	13	1
1:B:29:LYS:HB2	1:B:64:GLY:HA3	0.41	1.92	13	1
1:B:29:LYS:CE	1:B:59:THR:O	0.41	2.68	17	1
1:A:17:TYR:OH	1:A:35:LEU:HD21	0.41	2.14	2	1
1:A:77:VAL:CG1	1:B:7:MET:SD	0.41	3.05	4	2
1:A:82:THR:CG2	1:B:74:MET:HG3	0.41	2.45	4	1
1:A:56:VAL:HG11	1:A:79:MET:SD	0.41	2.54	9	1
1:A:44:LEU:CD1	1:A:47:ILE:HD12	0.41	2.44	12	1
1:A:37:ASN:OD1	1:A:37:ASN:C	0.41	2.64	14	1
1:A:46:GLU:O	1:A:46:GLU:HG3	0.41	2.13	5	1
1:A:70:PHE:O	1:A:74:MET:HG3	0.41	2.15	5	1
1:B:14:PHE:CE2	1:B:27:LEU:CD2	0.41	3.01	6	1
1:A:77:VAL:O	1:B:7:MET:CE	0.41	2.69	18	2
1:B:9:ALA:O	1:B:12:ASP:HB3	0.41	2.16	9	1
1:A:29:LYS:HG2	1:A:64:GLY:O	0.41	2.15	10	1
1:A:45:GLU:HG3	1:A:46:GLU:N	0.41	2.30	15	1
1:B:43:PHE:O	1:B:45:GLU:HG2	0.41	2.15	17	1
1:A:2:GLU:OE1	1:A:2:GLU:CA	0.41	2.68	18	1
1:A:29:LYS:HD3	1:A:64:GLY:C	0.41	2.40	1	1
1:B:29:LYS:HD3	1:B:64:GLY:C	0.41	2.40	1	1
1:A:46:GLU:C	1:A:47:ILE:HG13	0.41	2.41	5	1
1:A:9:ALA:O	1:A:12:ASP:HB3	0.41	2.16	9	1
1:B:39:GLU:HG2	1:B:40:LEU:CD1	0.41	2.41	9	1
1:B:45:GLU:HG2	1:B:46:GLU:OE1	0.41	2.16	11	1
1:A:29:LYS:HB2	1:A:64:GLY:HA3	0.41	1.92	13	1
1:A:8:VAL:CG2	1:B:41:SER:CB	0.41	2.98	15	1
1:A:38:ASN:O	1:A:39:GLU:C	0.41	2.60	16	1
1:A:81:THR:OG1	1:B:7:MET:SD	0.41	2.77	16	1
1:B:26:LYS:HD2	1:B:26:LYS:C	0.41	2.40	20	1
1:A:40:LEU:HD11	1:A:77:VAL:CG1	0.41	2.46	6	1
1:A:81:THR:CG2	1:B:7:MET:CG	0.41	2.99	16	2
1:B:55:LYS:C	1:B:58:GLU:HG2	0.41	2.40	11	1
1:A:49:GLU:HB2	1:A:83:ALA:CB	0.41	2.45	13	1
1:A:14:PHE:CE2	1:A:70:PHE:CB	0.41	3.03	19	1
1:B:35:LEU:HG	1:B:73:PHE:CZ	0.41	2.50	20	1
1:B:35:LEU:O	1:B:39:GLU:CB	0.41	2.69	5	1
1:B:46:GLU:C	1:B:47:ILE:HG13	0.41	2.40	5	1
1:B:49:GLU:HB3	1:B:52:VAL:HG23	0.41	1.92	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:TYR:CD1	1:A:17:TYR:N	0.41	2.88	6	1
1:B:29:LYS:CG	1:B:64:GLY:O	0.41	2.69	10	1
1:A:39:GLU:CB	1:B:3:LEU:HB2	0.41	2.46	11	1
1:A:44:LEU:O	1:A:45:GLU:CB	0.41	2.69	13	1
1:A:45:GLU:O	1:A:46:GLU:HG2	0.41	2.16	13	1
1:B:42:HIS:HB3	1:B:43:PHE:CE1	0.41	2.50	16	1
1:A:10:LEU:CD2	1:B:3:LEU:HD11	0.41	2.43	18	2
1:B:29:LYS:HD3	1:B:64:GLY:HA2	0.41	1.92	1	1
1:B:18:SER:OG	1:B:18:SER:O	0.41	2.34	4	1
1:A:17:TYR:O	1:A:31:GLU:CD	0.41	2.64	6	1
1:A:17:TYR:CD1	1:A:31:GLU:OE2	0.41	2.73	6	1
1:B:40:LEU:HD11	1:B:77:VAL:CG1	0.41	2.46	6	1
1:A:29:LYS:CG	1:A:64:GLY:O	0.41	2.68	10	1
1:B:29:LYS:HG2	1:B:64:GLY:O	0.41	2.16	10	1
1:A:45:GLU:HG2	1:A:46:GLU:OE1	0.41	2.16	11	1
1:B:36:ILE:CG2	1:B:40:LEU:HB2	0.41	2.46	13	1
1:B:70:PHE:O	1:B:74:MET:HB2	0.41	2.16	13	1
1:B:45:GLU:N	1:B:45:GLU:CD	0.41	2.79	16	1
1:A:14:PHE:CD1	1:A:18:SER:HB3	0.41	2.51	17	1
1:A:72:GLU:O	1:A:76:PHE:HB2	0.41	2.15	18	1
1:A:78:SER:OG	1:B:78:SER:OG	0.41	2.37	18	1
1:A:72:GLU:O	1:A:73:PHE:C	0.41	2.63	19	1
1:A:37:ASN:OD1	1:A:37:ASN:O	0.41	2.39	3	1
1:A:82:THR:HG21	1:B:74:MET:CG	0.41	2.44	4	1
1:B:56:VAL:CG1	1:B:79:MET:CE	0.41	2.99	9	1
1:A:18:SER:OG	1:A:26:LYS:O	0.41	2.34	12	1
1:A:52:VAL:HG13	1:A:79:MET:CB	0.41	2.46	12	1
1:B:47:ILE:HD11	1:B:53:VAL:HG21	0.41	1.92	12	1
1:A:14:PHE:C	1:A:16:GLN:N	0.41	2.78	13	1
1:B:29:LYS:HE2	1:B:65:ASP:N	0.41	2.30	13	1
1:A:48:LYS:HB2	1:A:83:ALA:CB	0.41	2.45	16	1
1:B:72:GLU:O	1:B:76:PHE:HB2	0.41	2.16	18	1
1:B:72:GLU:OE1	1:B:72:GLU:C	0.40	2.63	2	1
1:A:35:LEU:O	1:A:39:GLU:CB	0.40	2.69	5	1
1:B:17:TYR:CD1	1:B:31:GLU:OE2	0.40	2.74	6	1
1:A:34:GLU:OE1	1:A:38:ASN:HB2	0.40	2.17	8	1
1:A:55:LYS:C	1:A:58:GLU:HG2	0.40	2.40	11	1
1:B:29:LYS:HD3	1:B:66:GLY:O	0.40	2.16	12	1
1:A:42:HIS:HB3	1:A:43:PHE:CE1	0.40	2.50	16	1
1:A:26:LYS:O	1:A:26:LYS:HG3	0.40	2.16	18	1
1:A:4:GLU:HB2	1:B:39:GLU:OE1	0.40	2.17	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:39:GLU:HG2	1:B:4:GLU:N	0.40	2.31	20	1
1:B:73:PHE:CE1	1:B:77:VAL:HG21	0.40	2.50	20	1
1:A:51:GLU:O	1:A:55:LYS:HE2	0.40	2.16	3	1
1:B:34:GLU:OE1	1:B:38:ASN:HB2	0.40	2.17	8	1
1:A:55:LYS:C	1:A:55:LYS:HD3	0.40	2.42	10	1
1:A:54:ASP:O	1:A:58:GLU:HG2	0.40	2.16	11	1
1:B:54:ASP:O	1:B:58:GLU:HG2	0.40	2.17	11	1
1:A:29:LYS:HD3	1:A:66:GLY:O	0.40	2.16	12	1
1:B:39:GLU:O	1:B:40:LEU:C	0.40	2.63	12	1
1:B:52:VAL:HG13	1:B:79:MET:CB	0.40	2.46	12	1
1:B:40:LEU:HG	1:B:41:SER:OG	0.40	2.16	15	1
1:A:7:MET:CE	1:B:77:VAL:O	0.40	2.69	18	1
1:B:37:ASN:O	1:B:37:ASN:OD1	0.40	2.39	3	1
1:B:17:TYR:O	1:B:31:GLU:CD	0.40	2.64	6	1
1:B:28:LYS:O	1:B:32:LEU:HB3	0.40	2.16	9	1
1:A:52:VAL:CG1	1:A:79:MET:HB2	0.40	2.46	10	1
1:A:3:LEU:CA	1:B:13:VAL:HG21	0.40	2.43	13	1
1:A:14:PHE:O	1:A:15:HIS:C	0.40	2.61	13	1
1:B:14:PHE:O	1:B:15:HIS:C	0.40	2.61	13	1
1:A:79:MET:HE2	1:A:79:MET:HB3	0.40	1.81	16	1
1:A:10:LEU:C	1:A:12:ASP:N	0.40	2.78	2	1
1:A:32:LEU:CG	1:A:60:LEU:HD21	0.40	2.46	2	1
1:B:29:LYS:HE3	1:B:59:THR:HG22	0.40	1.94	5	1
1:A:49:GLU:O	1:A:51:GLU:N	0.40	2.54	6	1
1:B:49:GLU:O	1:B:51:GLU:N	0.40	2.54	6	1
1:A:56:VAL:CG1	1:A:79:MET:CE	0.40	2.99	9	1
1:B:55:LYS:C	1:B:55:LYS:HD3	0.40	2.42	10	1
1:B:75:ALA:O	1:B:79:MET:HE3	0.40	2.17	10	1
1:B:1:SER:O	1:B:5:LYS:HG2	0.40	2.16	11	1
1:A:70:PHE:O	1:A:74:MET:HB2	0.40	2.16	13	1
1:A:30:SER:OG	1:A:64:GLY:O	0.40	2.33	16	1
1:A:55:LYS:HZ2	1:A:79:MET:HE1	0.40	1.75	18	1
1:A:65:ASP:O	1:A:65:ASP:CG	0.40	2.63	19	1
1:A:39:GLU:HG2	1:B:4:GLU:HA	0.40	1.93	20	1
1:B:51:GLU:O	1:B:55:LYS:HE2	0.40	2.16	3	1
1:A:14:PHE:CE2	1:A:27:LEU:CD2	0.40	3.01	5	1
1:A:46:GLU:HA	1:A:46:GLU:OE1	0.40	2.17	6	1
1:B:44:LEU:O	1:B:45:GLU:CB	0.40	2.69	13	1
1:A:40:LEU:HG	1:A:41:SER:OG	0.40	2.16	15	1

6.3 Torsion angles

6.3.1 Protein backbone

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	77/92 (84%)	64±3 (83±4%)	11±2 (14±3%)	3±1 (3±2%)	5	35
1	B	77/92 (84%)	64±3 (83±4%)	11±3 (14±3%)	3±1 (3±2%)	5	35
All	All	3080/3680 (84%)	2543 (83%)	435 (14%)	102 (3%)	5	35

All 22 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	47	ILE	17
1	B	47	ILE	17
1	A	40	LEU	10
1	B	40	LEU	10
1	A	42	HIS	5
1	B	42	HIS	5
1	A	45	GLU	5
1	B	45	GLU	5
1	A	44	LEU	5
1	B	44	LEU	5
1	A	41	SER	3
1	B	41	SER	3
1	A	43	PHE	2
1	B	43	PHE	2
1	A	63	ASP	1
1	A	65	ASP	1
1	B	63	ASP	1
1	B	65	ASP	1
1	A	83	ALA	1
1	B	83	ALA	1
1	A	25	HIS	1
1	B	25	HIS	1

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	71/84 (85%)	50±3 (70±4%)	22±3 (30±4%)	1	16
1	B	71/84 (85%)	50±3 (70±4%)	21±3 (30±4%)	1	16
All	All	2840/3360 (85%)	1981 (70%)	859 (30%)	1	16

All 116 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	LEU	20
1	A	35	LEU	20
1	A	36	ILE	20
1	B	10	LEU	20
1	B	35	LEU	20
1	B	36	ILE	20
1	A	71	GLN	15
1	A	73	PHE	15
1	A	74	MET	15
1	B	71	GLN	15
1	B	73	PHE	15
1	B	74	MET	15
1	A	27	LEU	15
1	B	27	LEU	15
1	A	61	ASP	14
1	B	61	ASP	14
1	A	72	GLU	14
1	B	72	GLU	14
1	A	79	MET	13
1	B	79	MET	13
1	A	44	LEU	12
1	B	44	LEU	12
1	A	16	GLN	12
1	B	16	GLN	12
1	A	5	LYS	11
1	B	5	LYS	11
1	A	42	HIS	10
1	A	55	LYS	10

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Mol	Chain	Res	Type	Models (Total)
1	A	63	ASP	10
1	B	42	HIS	10
1	B	55	LYS	10
1	B	63	ASP	10
1	A	26	LYS	9
1	A	34	GLU	9
1	B	26	LYS	9
1	B	34	GLU	9
1	A	57	MET	9
1	B	57	MET	9
1	A	28	LYS	9
1	B	28	LYS	9
1	A	18	SER	8
1	B	18	SER	8
1	A	48	LYS	8
1	B	48	LYS	8
1	A	59	THR	8
1	B	59	THR	8
1	A	29	LYS	7
1	B	29	LYS	7
1	A	40	LEU	7
1	B	40	LEU	7
1	A	45	GLU	7
1	A	76	PHE	7
1	B	45	GLU	7
1	B	76	PHE	7
1	A	31	GLU	7
1	A	33	LYS	7
1	A	51	GLU	7
1	B	33	LYS	7
1	B	51	GLU	7
1	A	30	SER	7
1	B	30	SER	7
1	A	82	THR	6
1	B	82	THR	6
1	A	39	GLU	6
1	B	31	GLU	6
1	B	39	GLU	6
1	A	11	ILE	6
1	B	11	ILE	6
1	A	62	GLU	5
1	B	62	GLU	5

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Mol	Chain	Res	Type	Models (Total)
1	A	41	SER	5
1	A	46	GLU	5
1	B	41	SER	5
1	B	46	GLU	5
1	A	2	GLU	5
1	B	2	GLU	5
1	A	78	SER	4
1	B	78	SER	4
1	A	70	PHE	4
1	B	70	PHE	4
1	A	38	ASN	4
1	B	38	ASN	4
1	A	25	HIS	4
1	B	25	HIS	4
1	A	43	PHE	3
1	A	81	THR	3
1	B	43	PHE	3
1	B	81	THR	3
1	A	58	GLU	3
1	B	58	GLU	3
1	A	50	GLN	3
1	A	68	CYS	3
1	B	50	GLN	3
1	B	68	CYS	3
1	A	4	GLU	3
1	B	4	GLU	3
1	A	47	ILE	3
1	B	47	ILE	3
1	A	1	SER	2
1	B	1	SER	2
1	A	13	VAL	2
1	A	67	GLU	2
1	B	13	VAL	2
1	B	67	GLU	2
1	A	15	HIS	2
1	B	15	HIS	2
1	A	3	LEU	1
1	A	14	PHE	1
1	B	3	LEU	1
1	B	14	PHE	1
1	A	17	TYR	1
1	B	17	TYR	1

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Mol	Chain	Res	Type	Models (Total)
1	A	80	VAL	1
1	B	80	VAL	1
1	A	49	GLU	1
1	B	49	GLU	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided