



Full wwPDB NMR Structure Validation Report ⓘ

Feb 20, 2022 – 02:23 AM EST

PDB ID : 1UWO
Title : CALCIUM FORM OF HUMAN S100B, NMR, 20 STRUCTURES
Authors : Smith, S.P.; Shaw, G.S.
Deposited on : 1997-12-05

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

MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : 2.26
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.26

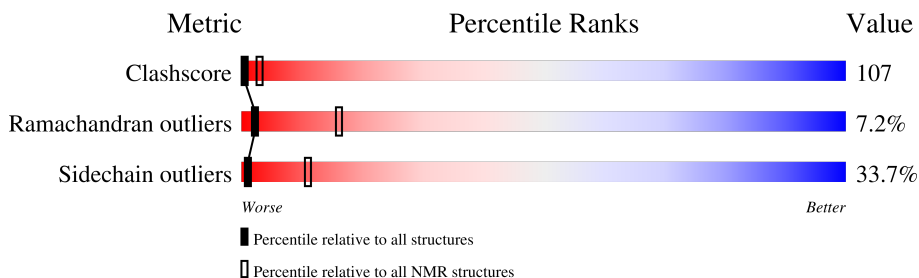
1 Overall quality at a glance

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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	91	5% 66% 19% 10%
1	B	91	5% 66% 19% 10%

2 Ensemble composition and analysis

This entry contains 20 models. The atoms present in the NMR models are not consistent. Some calculations may have failed as a result. All residues are included in the validation scores. Model 18 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:41, A:47-A:87, B:1-B:41, B:47-B:87 (164)	0.67	18

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 4 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2876 atoms, of which 1394 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called S100B.


Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	91	1438	465	697	118	152	6	0
1	B	91	1438	465	697	118	152	6	0

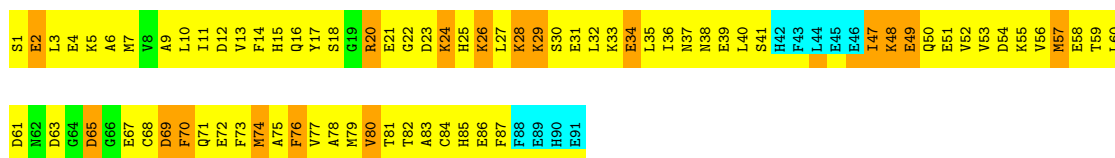
4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

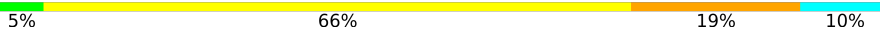
These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for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

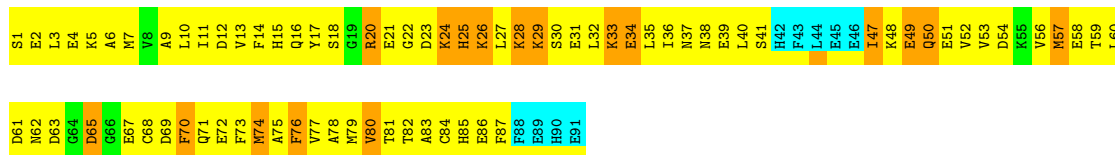
- Molecule 1: S100B

Chain A:  5% 66% 19% 10%



- Molecule 1: S100B

Chain B:  5% 66% 19% 10%

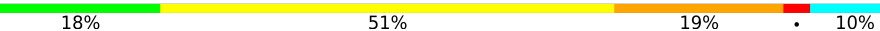


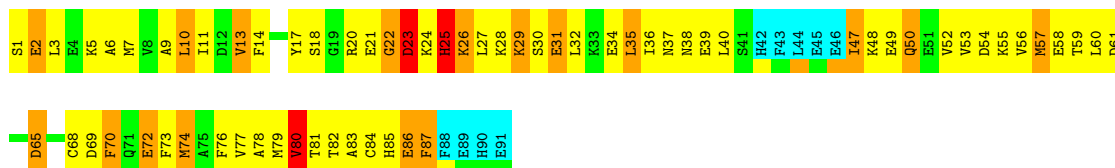
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: S100B

Chain A:  18% 51% 19% 10%



- Molecule 1: S100B

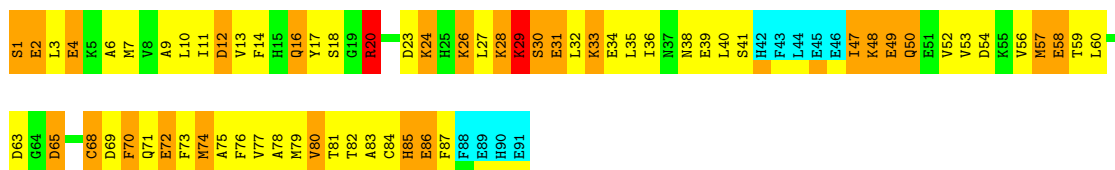
Chain B: 16% 45% 25% 10%



4.2.2 Score per residue for model 2

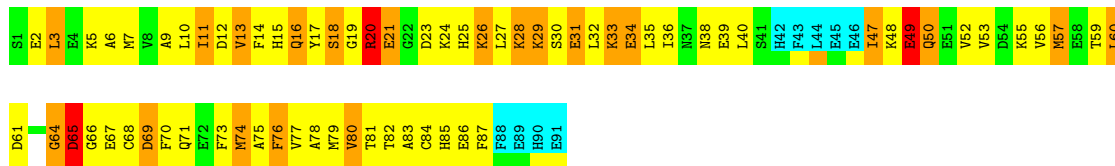
- Molecule 1: S100B

Chain A: 16% 44% 27% 10%



- Molecule 1: S100B

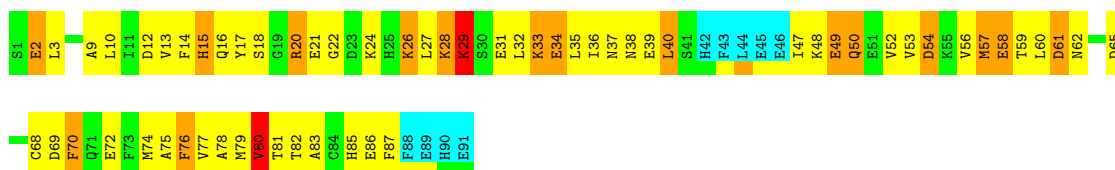
Chain B: 13% 51% 23% 10%



4.2.3 Score per residue for model 3

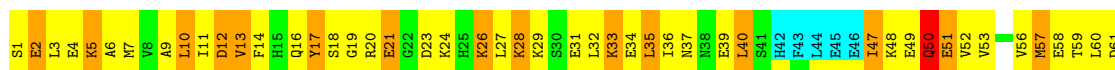
- Molecule 1: S100B

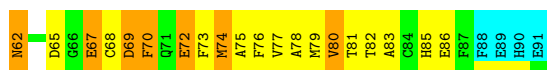
Chain A: 23% 47% 18% 10%



- Molecule 1: S100B

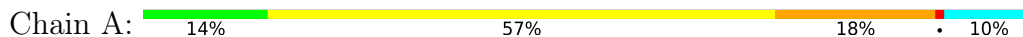
Chain B: 16% 48% 24% 10%



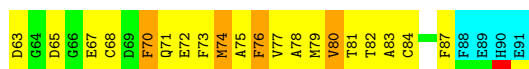
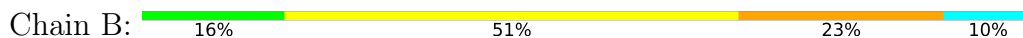


4.2.4 Score per residue for model 4

- Molecule 1: S100B

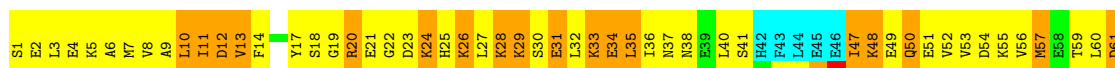
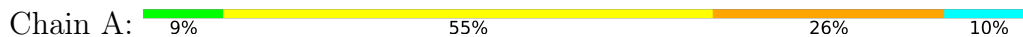


- Molecule 1: S100B

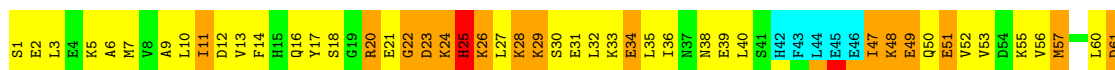
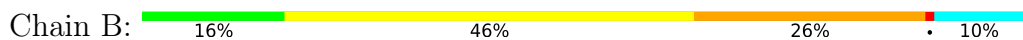


4.2.5 Score per residue for model 5

- Molecule 1: S100B

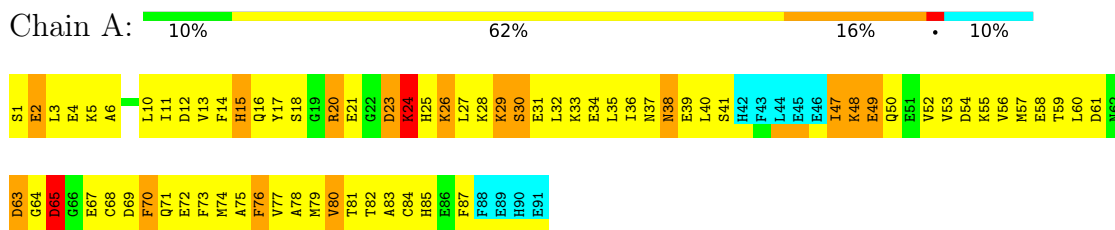


- Molecule 1: S100B

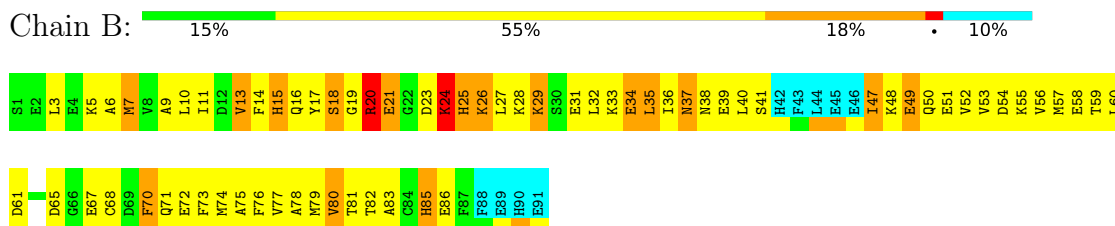


4.2.6 Score per residue for model 6

- Molecule 1: S100B

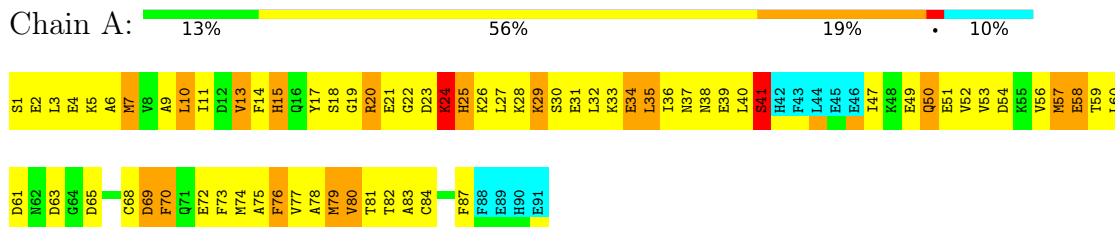


- Molecule 1: S100B

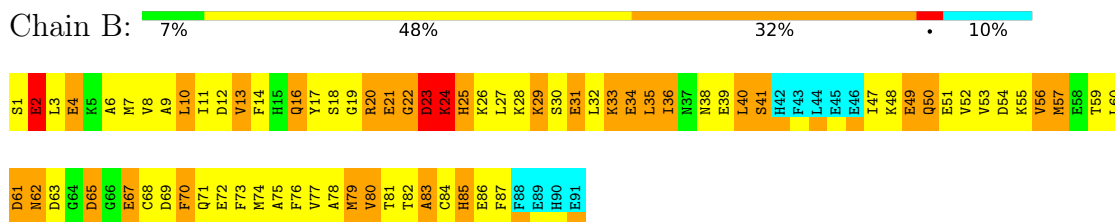


4.2.7 Score per residue for model 7

- Molecule 1: S100B

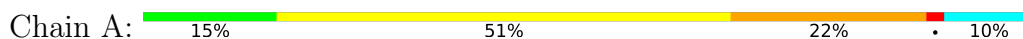


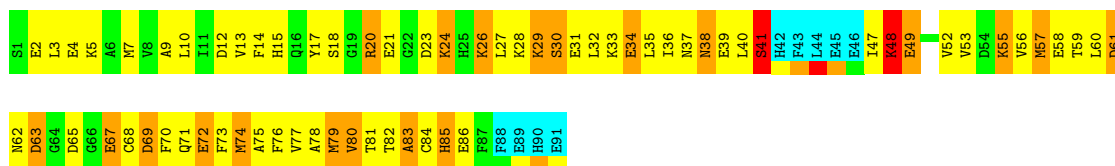
- Molecule 1: S100B



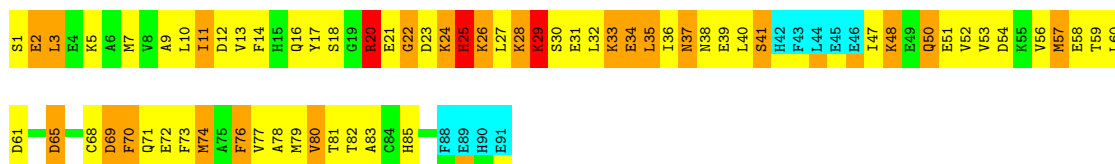
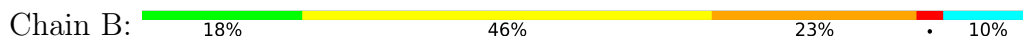
4.2.8 Score per residue for model 8

- Molecule 1: S100B



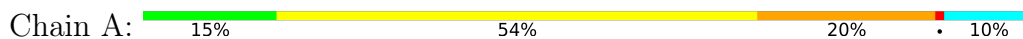


- Molecule 1: S100B

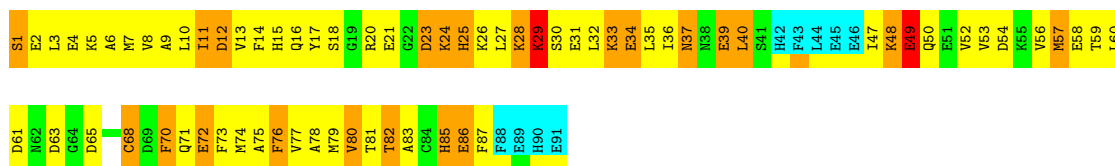
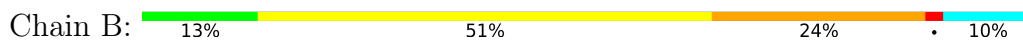


4.2.9 Score per residue for model 9

- Molecule 1: S100B

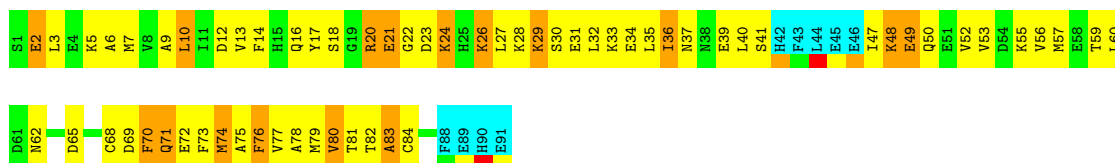
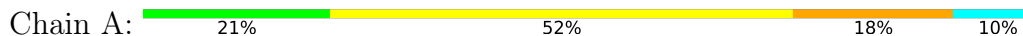


- Molecule 1: S100B



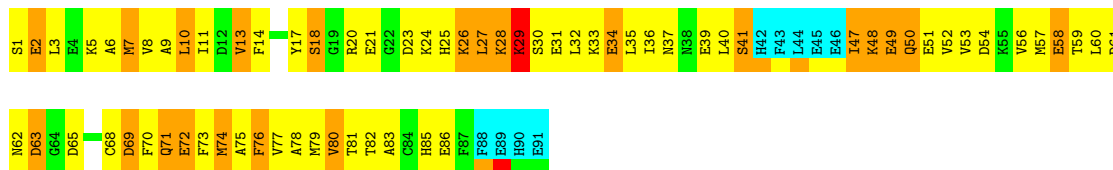
4.2.10 Score per residue for model 10

- Molecule 1: S100B



- Molecule 1: S100B

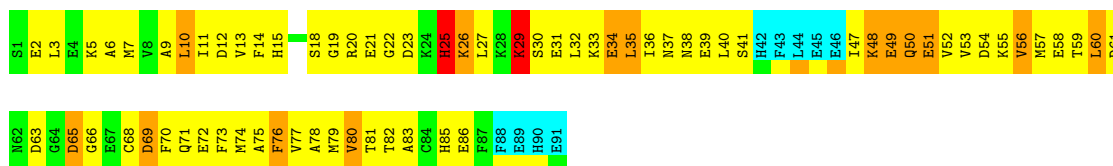
Chain B:



4.2.11 Score per residue for model 11

- Molecule 1: S100B

Chain A:



- Molecule 1: S100B

Chain B:



4.2.12 Score per residue for model 12

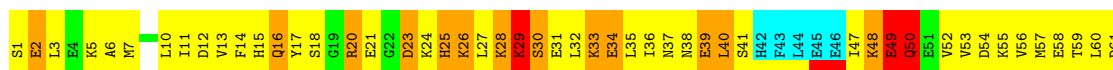
- Molecule 1: S100B

Chain A:



- Molecule 1: S100B

Chain B:





4.2.13 Score per residue for model 13

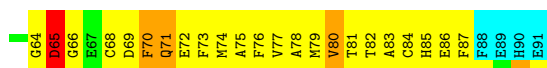
- Molecule 1: S100B

Chain A: 11% 52% 25% 10%



- Molecule 1: S100B

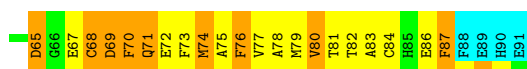
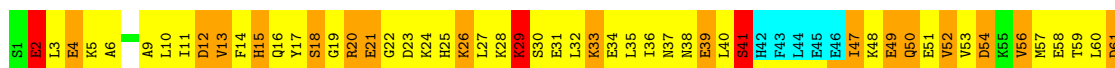
Chain B: 12% 60% 16% 10%



4.2.14 Score per residue for model 14

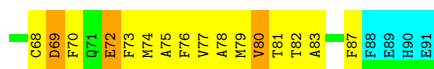
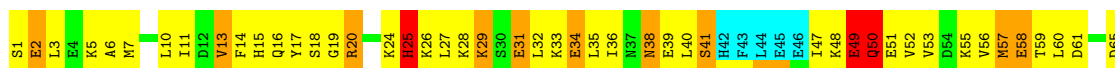
- Molecule 1: S100B

Chain A: 10% 48% 29% 10%



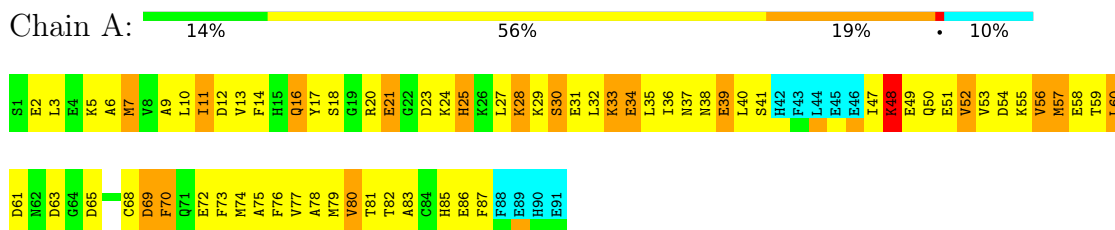
- Molecule 1: S100B

Chain B: 21% 52% 14% 10%

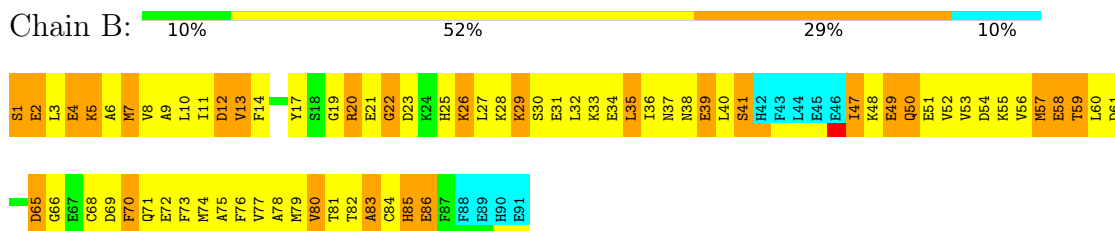


4.2.15 Score per residue for model 15

• Molecule 1: S100B

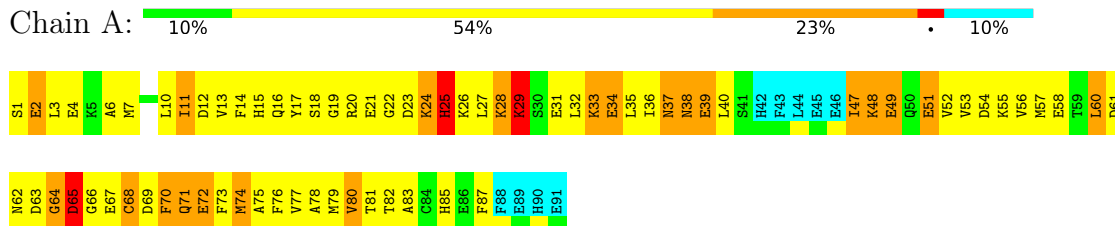


• Molecule 1: S100B

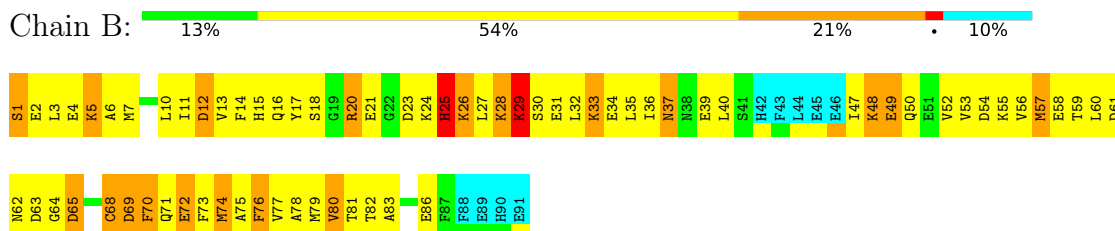


4.2.16 Score per residue for model 16

• Molecule 1: S100B

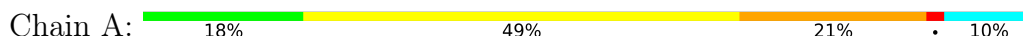


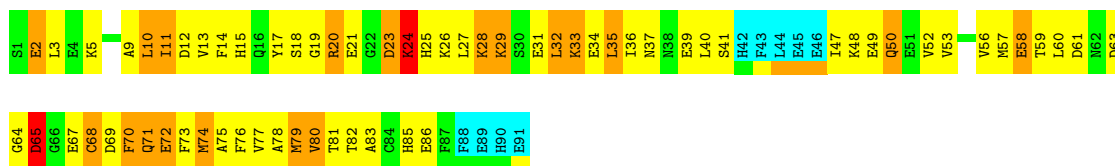
• Molecule 1: S100B



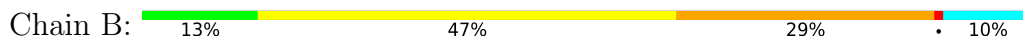
4.2.17 Score per residue for model 17

• Molecule 1: S100B



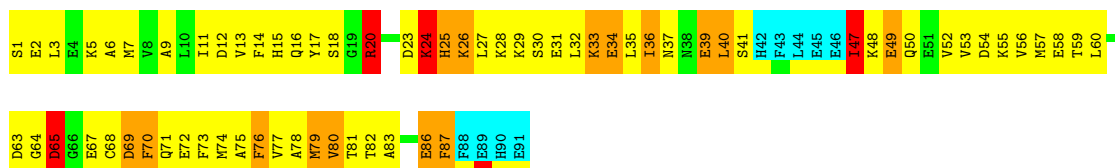
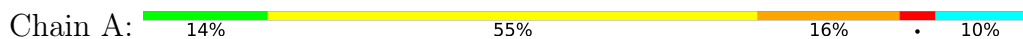


- Molecule 1: S100B

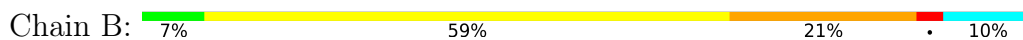


4.2.18 Score per residue for model 18 (medoid)

- Molecule 1: S100B

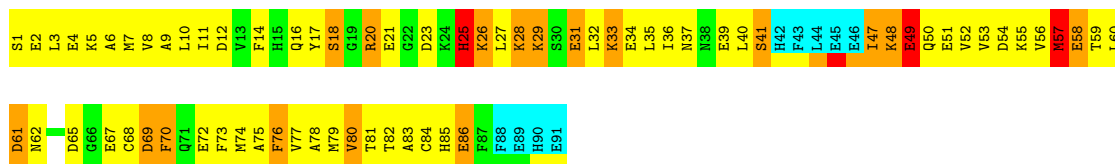
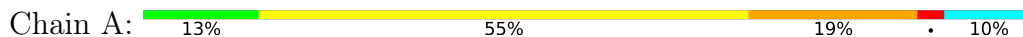


- Molecule 1: S100B



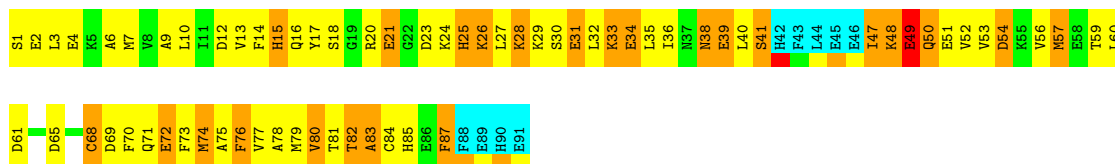
4.2.19 Score per residue for model 19

- Molecule 1: S100B



- Molecule 1: S100B

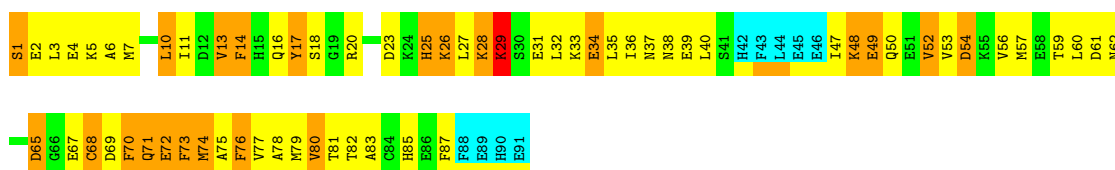
Chain B: 15% 47% 26% 10%



4.2.20 Score per residue for model 20

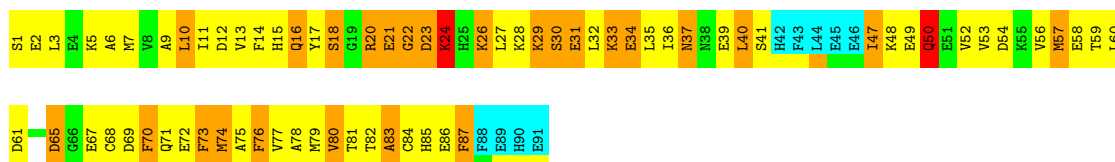
- Molecule 1: S100B

Chain A: 20% 45% 24% 10%



- Molecule 1: S100B

Chain B: 12% 48% 27% 10%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *HYBRID DISTANCE GEOMETRY AND SIMULATED ANNEALING*.

Of the 30 calculated structures, 20 were deposited, based on the following criterion: *LEAST RESTRAINT VIOLATIONS*.

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

Software name	Classification	Version
X-PLOR	refinement	3.1
X-PLOR	structure solution	

No chemical shift data was provided.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.9±0.2
1	B	0.0±0.0	1.0±0.0
All	All	0	39

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	B	20	ARG	Sidechain	20
1	A	20	ARG	Sidechain	19

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	654	633	633	155±16
1	B	654	633	633	159±12
All	All	26160	25314	25320	5522

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 107.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:32:LEU:HD22	1:B:60:LEU:HD12	1.15	1.15	19	3
1:A:75:ALA:HB2	1:B:75:ALA:HB2	1.13	1.16	9	11
1:B:36:ILE:HD12	1:B:53:VAL:HG22	1.09	1.23	11	3
1:A:47:ILE:HD12	1:A:53:VAL:HG23	1.06	1.24	10	3
1:B:17:TYR:CE2	1:B:35:LEU:HD23	1.06	1.86	3	1
1:B:27:LEU:HD12	1:B:32:LEU:HD23	1.05	1.28	12	2
1:A:77:VAL:HG21	1:B:3:LEU:HD23	1.05	1.22	11	3
1:A:81:THR:HG21	1:B:11:ILE:HD11	1.04	1.26	3	4
1:A:10:LEU:HD23	1:A:73:PHE:CE2	1.03	1.88	12	3
1:A:3:LEU:HD12	1:B:77:VAL:HG21	1.03	1.31	16	1
1:A:36:ILE:HG21	1:A:47:ILE:HD11	1.02	1.18	15	1
1:A:32:LEU:HD23	1:A:60:LEU:HD13	1.01	1.29	7	2
1:B:33:LYS:CD	1:B:53:VAL:HG11	1.01	1.86	1	6
1:A:36:ILE:HD11	1:A:76:PHE:CE1	1.01	1.89	14	8
1:A:47:ILE:HD13	1:A:53:VAL:HG21	1.01	1.26	4	5
1:A:27:LEU:HD13	1:A:35:LEU:HD11	1.01	1.31	9	1
1:A:13:VAL:HG21	1:B:3:LEU:HD11	1.01	1.33	6	3
1:A:60:LEU:HD21	1:A:76:PHE:CG	1.00	1.92	3	5
1:A:3:LEU:HD13	1:B:10:LEU:HD23	0.98	1.33	6	2
1:A:36:ILE:HD11	1:A:76:PHE:CE2	0.98	1.93	8	3
1:B:60:LEU:HD22	1:B:76:PHE:CD1	0.97	1.93	6	1
1:A:36:ILE:HD11	1:A:76:PHE:CZ	0.97	1.93	14	5
1:A:36:ILE:HG23	1:A:40:LEU:HD12	0.97	1.32	2	1
1:A:13:VAL:CG1	1:A:35:LEU:HD11	0.96	1.91	13	5
1:B:56:VAL:HG21	1:B:76:PHE:CZ	0.96	1.94	20	4
1:B:32:LEU:HD22	1:B:57:MET:HE3	0.96	1.29	5	1
1:A:56:VAL:HG22	1:A:60:LEU:HD21	0.95	1.35	5	3
1:B:10:LEU:HD23	1:B:73:PHE:CE2	0.95	1.97	3	2
1:A:32:LEU:HD13	1:A:57:MET:CE	0.95	1.91	9	1
1:A:13:VAL:HG11	1:A:35:LEU:HD21	0.94	1.38	5	6
1:A:60:LEU:HD21	1:A:76:PHE:CD2	0.94	1.96	3	2
1:A:3:LEU:HD21	1:B:13:VAL:HG21	0.94	1.39	17	3
1:B:60:LEU:HD21	1:B:76:PHE:CG	0.94	1.98	9	10
1:B:56:VAL:HG22	1:B:60:LEU:HD21	0.93	1.40	19	3
1:B:13:VAL:HG13	1:B:35:LEU:HD11	0.93	1.39	1	4
1:A:13:VAL:CG1	1:A:35:LEU:HD21	0.93	1.93	1	9
1:A:36:ILE:HG21	1:A:53:VAL:CG2	0.93	1.92	16	1
1:A:28:LYS:O	1:A:32:LEU:HD12	0.93	1.64	15	2
1:B:39:GLU:CG	1:B:40:LEU:HD22	0.92	1.94	7	1
1:B:52:VAL:CG1	1:B:80:VAL:HG13	0.92	1.94	19	19
1:A:74:MET:HB3	1:B:78:ALA:HB2	0.91	1.40	13	8
1:B:17:TYR:CD2	1:B:35:LEU:HD22	0.91	1.99	15	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:3:LEU:HD22	1:B:39:GLU:OE1	0.91	1.66	7	1
1:A:32:LEU:CD2	1:A:60:LEU:HD22	0.91	1.94	13	2
1:A:17:TYR:CE2	1:A:35:LEU:HD22	0.91	1.99	20	2
1:B:56:VAL:HG21	1:B:76:PHE:CE1	0.91	2.01	10	5
1:A:6:ALA:HB1	1:B:6:ALA:HB1	0.91	1.42	10	6
1:B:32:LEU:CD2	1:B:60:LEU:HD22	0.90	1.96	5	1
1:B:75:ALA:HB1	1:B:79:MET:CE	0.90	1.96	17	1
1:A:13:VAL:HG21	1:B:3:LEU:CD1	0.90	1.96	6	4
1:A:3:LEU:CD1	1:B:10:LEU:HD23	0.90	1.96	6	3
1:A:36:ILE:HD12	1:A:80:VAL:HG21	0.90	1.43	5	1
1:B:13:VAL:HG13	1:B:17:TYR:CD1	0.90	2.02	9	6
1:B:10:LEU:HD12	1:B:73:PHE:CZ	0.90	2.01	20	1
1:A:36:ILE:HD13	1:A:53:VAL:HG22	0.90	1.44	13	4
1:A:13:VAL:HG21	1:B:3:LEU:CD2	0.90	1.95	15	3
1:B:47:ILE:HD13	1:B:53:VAL:HG23	0.89	1.44	7	2
1:A:81:THR:HG21	1:B:7:MET:SD	0.89	2.08	4	3
1:A:47:ILE:CD1	1:A:53:VAL:HG23	0.89	1.96	10	3
1:B:13:VAL:CG1	1:B:35:LEU:HD21	0.89	1.97	6	7
1:A:56:VAL:HG11	1:A:80:VAL:HG22	0.89	1.42	10	3
1:A:13:VAL:HG11	1:A:35:LEU:HD11	0.89	1.40	15	1
1:A:35:LEU:HD13	1:A:39:GLU:OE2	0.89	1.68	15	1
1:A:6:ALA:O	1:A:10:LEU:HD12	0.88	1.68	19	4
1:B:59:THR:HG21	1:B:79:MET:SD	0.88	2.08	2	5
1:A:3:LEU:HD11	1:B:73:PHE:CZ	0.88	2.04	16	1
1:B:17:TYR:CG	1:B:35:LEU:HD21	0.88	2.04	11	3
1:B:4:GLU:O	1:B:8:VAL:HG23	0.87	1.68	11	1
1:B:33:LYS:CG	1:B:53:VAL:HG11	0.87	2.00	16	6
1:A:36:ILE:CD1	1:A:80:VAL:HG21	0.87	2.00	9	3
1:B:27:LEU:HD12	1:B:32:LEU:CD2	0.87	2.00	12	1
1:A:56:VAL:HB	1:A:60:LEU:HD13	0.87	1.47	3	4
1:A:75:ALA:CB	1:B:75:ALA:HB2	0.87	1.99	12	8
1:B:47:ILE:HD13	1:B:53:VAL:HG21	0.87	1.43	12	3
1:B:32:LEU:HD13	1:B:60:LEU:HD22	0.87	1.43	13	1
1:A:33:LYS:HG2	1:A:53:VAL:HG11	0.86	1.46	6	3
1:B:32:LEU:HD22	1:B:60:LEU:CD1	0.86	1.99	19	4
1:B:56:VAL:HG21	1:B:76:PHE:CD1	0.86	2.05	10	1
1:B:33:LYS:HD3	1:B:53:VAL:HG11	0.86	1.47	5	5
1:A:3:LEU:HD23	1:B:77:VAL:HG21	0.86	1.47	9	3
1:A:78:ALA:HB2	1:B:74:MET:HB3	0.86	1.46	1	7
1:A:37:ASN:ND2	1:A:47:ILE:HD11	0.86	1.84	20	3
1:A:39:GLU:OE2	1:A:77:VAL:HG13	0.86	1.70	14	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:13:VAL:HG13	1:B:35:LEU:HD21	0.85	1.46	6	5
1:B:33:LYS:HD2	1:B:53:VAL:HG11	0.85	1.48	12	2
1:A:36:ILE:HG23	1:A:40:LEU:HD13	0.85	1.46	20	2
1:A:32:LEU:HD12	1:A:57:MET:SD	0.85	2.11	6	4
1:B:11:ILE:HD13	1:B:70:PHE:CE2	0.85	2.06	13	1
1:B:47:ILE:HD11	1:B:80:VAL:CG1	0.85	2.02	2	1
1:A:27:LEU:HD23	1:A:31:GLU:C	0.85	1.92	7	8
1:B:17:TYR:CD2	1:B:35:LEU:HD21	0.85	2.07	10	5
1:A:33:LYS:CG	1:A:53:VAL:HG11	0.84	2.02	6	8
1:B:33:LYS:HG3	1:B:53:VAL:HG11	0.84	1.47	8	7
1:A:60:LEU:HD22	1:A:76:PHE:CD1	0.84	2.07	5	1
1:B:7:MET:CE	1:B:11:ILE:HD13	0.84	2.02	5	1
1:A:75:ALA:HB2	1:B:75:ALA:CB	0.84	2.02	12	8
1:B:60:LEU:HD21	1:B:76:PHE:CD1	0.84	2.07	3	4
1:B:60:LEU:HD22	1:B:76:PHE:HB2	0.84	1.49	12	5
1:A:56:VAL:HG11	1:A:76:PHE:CE1	0.84	2.08	3	4
1:A:39:GLU:CG	1:A:40:LEU:HD12	0.84	2.02	19	1
1:A:10:LEU:HD11	1:B:6:ALA:HB1	0.84	1.50	1	2
1:A:32:LEU:HD11	1:A:68:CYS:SG	0.84	2.13	1	3
1:A:74:MET:CB	1:B:78:ALA:HB2	0.84	2.03	1	17
1:B:52:VAL:HG11	1:B:80:VAL:HA	0.83	1.47	5	15
1:B:11:ILE:HD13	1:B:70:PHE:CZ	0.83	2.08	11	5
1:B:56:VAL:O	1:B:60:LEU:HD12	0.83	1.73	5	4
1:B:47:ILE:CD1	1:B:53:VAL:HG21	0.83	2.03	5	3
1:A:52:VAL:CG1	1:A:80:VAL:HG13	0.83	2.04	11	19
1:B:36:ILE:HD13	1:B:80:VAL:HG11	0.83	1.48	3	2
1:A:32:LEU:CD2	1:A:60:LEU:HD13	0.83	2.03	7	3
1:B:36:ILE:HG13	1:B:53:VAL:HG22	0.83	1.51	1	2
1:A:33:LYS:CD	1:A:53:VAL:HG11	0.83	2.03	13	4
1:A:32:LEU:HD23	1:A:76:PHE:CE1	0.83	2.08	17	1
1:B:35:LEU:HD21	1:B:73:PHE:CE1	0.82	2.09	17	4
1:A:3:LEU:HD22	1:B:39:GLU:OE2	0.82	1.74	11	1
1:A:36:ILE:HA	1:A:40:LEU:HD23	0.82	1.51	13	2
1:B:56:VAL:HB	1:B:60:LEU:HD13	0.82	1.51	9	5
1:B:36:ILE:HG23	1:B:40:LEU:HD12	0.82	1.52	16	2
1:A:78:ALA:HB2	1:B:74:MET:CB	0.82	2.03	1	15
1:A:77:VAL:HG21	1:B:3:LEU:HG	0.82	1.50	17	1
1:A:39:GLU:HG3	1:A:40:LEU:HD12	0.82	1.48	19	1
1:A:33:LYS:HG3	1:A:53:VAL:HG11	0.82	1.50	2	3
1:B:60:LEU:HD21	1:B:76:PHE:CD2	0.82	2.10	14	4
1:A:52:VAL:HG11	1:A:80:VAL:HA	0.82	1.51	9	15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:32:LEU:HD21	1:B:68:CYS:SG	0.82	2.15	11	3
1:A:59:THR:HG21	1:A:79:MET:CE	0.82	2.05	2	3
1:A:27:LEU:HD13	1:A:35:LEU:CD1	0.82	2.04	9	1
1:A:39:GLU:OE2	1:A:77:VAL:HG22	0.82	1.74	16	3
1:A:36:ILE:HG21	1:A:47:ILE:CD1	0.82	2.05	2	4
1:A:52:VAL:O	1:A:56:VAL:HG13	0.82	1.74	16	12
1:B:52:VAL:O	1:B:56:VAL:HG13	0.82	1.74	3	13
1:A:39:GLU:CD	1:A:77:VAL:HG22	0.82	1.95	19	1
1:A:74:MET:HB2	1:B:78:ALA:HB2	0.82	1.50	10	14
1:B:32:LEU:HD11	1:B:68:CYS:SG	0.82	2.14	11	2
1:A:78:ALA:HB2	1:B:74:MET:HB2	0.81	1.51	2	15
1:A:36:ILE:HD12	1:A:80:VAL:HG11	0.81	1.52	16	2
1:A:47:ILE:HG13	1:A:53:VAL:HG21	0.81	1.49	20	4
1:B:36:ILE:HD11	1:B:76:PHE:CE1	0.81	2.11	17	6
1:B:47:ILE:HD13	1:B:53:VAL:CG2	0.81	2.04	7	3
1:A:59:THR:HG21	1:A:79:MET:HE3	0.81	1.50	7	1
1:B:10:LEU:HD12	1:B:73:PHE:CE1	0.81	2.11	20	1
1:A:76:PHE:CE2	1:A:77:VAL:HG23	0.80	2.11	10	3
1:A:3:LEU:HD11	1:B:10:LEU:HD13	0.80	1.49	15	1
1:B:10:LEU:HD23	1:B:73:PHE:CZ	0.80	2.11	3	3
1:A:2:GLU:HG3	1:B:9:ALA:HB1	0.80	1.51	20	5
1:B:13:VAL:CG1	1:B:35:LEU:HD11	0.80	2.05	1	5
1:A:9:ALA:HB1	1:B:2:GLU:HG3	0.80	1.53	17	2
1:B:13:VAL:CG2	1:B:35:LEU:HD21	0.80	2.07	3	2
1:A:17:TYR:CZ	1:A:35:LEU:HD13	0.80	2.12	20	1
1:B:27:LEU:HD21	1:B:35:LEU:HD12	0.80	1.54	18	2
1:B:13:VAL:HG22	1:B:35:LEU:HD21	0.79	1.52	3	1
1:A:3:LEU:CD2	1:B:13:VAL:HG21	0.79	2.08	17	3
1:A:3:LEU:HD13	1:B:13:VAL:HG11	0.79	1.54	15	1
1:A:3:LEU:CD2	1:B:77:VAL:HG21	0.79	2.08	9	7
1:B:36:ILE:HD13	1:B:53:VAL:HG22	0.79	1.54	12	3
1:A:36:ILE:CD1	1:A:53:VAL:HG13	0.79	2.08	12	1
1:B:9:ALA:O	1:B:13:VAL:HG13	0.79	1.76	13	2
1:A:36:ILE:HG21	1:A:80:VAL:HG11	0.79	1.50	5	4
1:A:56:VAL:CB	1:A:60:LEU:HD21	0.79	2.06	16	1
1:B:17:TYR:CZ	1:B:35:LEU:HD23	0.79	2.12	3	1
1:B:36:ILE:CD1	1:B:80:VAL:HG11	0.79	2.08	3	2
1:A:52:VAL:HB	1:A:80:VAL:HG13	0.79	1.53	9	11
1:B:52:VAL:O	1:B:56:VAL:HG22	0.79	1.77	15	13
1:A:77:VAL:CG2	1:B:3:LEU:HD23	0.79	2.07	11	4
1:B:17:TYR:O	1:B:27:LEU:HD22	0.79	1.76	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:47:ILE:HD13	1:A:53:VAL:CG2	0.78	2.08	2	5
1:B:60:LEU:HD23	1:B:72:GLU:OE1	0.78	1.76	17	2
1:A:10:LEU:CD2	1:B:3:LEU:HD13	0.78	2.09	15	1
1:A:3:LEU:HD13	1:B:13:VAL:HG21	0.78	1.55	19	5
1:A:36:ILE:CG2	1:A:40:LEU:HD22	0.78	2.08	20	1
1:A:35:LEU:HD23	1:A:39:GLU:HG3	0.78	1.55	17	2
1:B:7:MET:O	1:B:11:ILE:HD12	0.78	1.78	16	6
1:B:39:GLU:CD	1:B:77:VAL:HG22	0.78	1.99	10	1
1:A:56:VAL:O	1:A:60:LEU:HD12	0.78	1.79	13	1
1:A:11:ILE:HD13	1:A:70:PHE:CZ	0.78	2.14	4	2
1:A:32:LEU:HD13	1:A:57:MET:HE1	0.78	1.56	9	1
1:B:39:GLU:OE1	1:B:77:VAL:HG13	0.78	1.78	4	1
1:A:56:VAL:HB	1:A:60:LEU:HD21	0.77	1.55	16	1
1:A:32:LEU:HD21	1:A:68:CYS:SG	0.77	2.19	5	6
1:A:13:VAL:HG21	1:B:3:LEU:HD13	0.77	1.54	16	1
1:A:71:GLN:HA	1:B:78:ALA:HB1	0.77	1.53	18	4
1:B:76:PHE:CE2	1:B:77:VAL:HG23	0.77	2.15	16	3
1:B:35:LEU:HD22	1:B:73:PHE:CE1	0.77	2.15	13	2
1:B:36:ILE:HG21	1:B:53:VAL:CG2	0.77	2.08	19	2
1:A:32:LEU:HD23	1:A:76:PHE:CD1	0.77	2.14	17	1
1:B:27:LEU:HD23	1:B:31:GLU:C	0.77	1.98	18	5
1:A:27:LEU:HD21	1:A:35:LEU:CD1	0.77	2.09	11	1
1:A:60:LEU:HD13	1:A:76:PHE:CE2	0.77	2.15	19	1
1:A:3:LEU:HD11	1:B:35:LEU:HD21	0.77	1.57	8	1
1:A:36:ILE:HD13	1:A:76:PHE:CE2	0.76	2.15	3	3
1:A:32:LEU:HD22	1:A:60:LEU:HD23	0.76	1.56	4	3
1:B:36:ILE:HA	1:B:40:LEU:HD12	0.76	1.57	3	1
1:A:60:LEU:HD13	1:A:76:PHE:HB2	0.76	1.57	16	1
1:A:3:LEU:HD11	1:B:13:VAL:HG21	0.76	1.55	7	4
1:A:10:LEU:HD13	1:B:3:LEU:HD22	0.76	1.56	13	1
1:B:76:PHE:CE1	1:B:80:VAL:HG21	0.76	2.15	18	11
1:B:32:LEU:HD13	1:B:57:MET:SD	0.76	2.21	11	2
1:A:2:GLU:OE2	1:B:13:VAL:HG23	0.76	1.79	19	1
1:B:32:LEU:CD2	1:B:57:MET:HE3	0.76	2.11	5	1
1:A:2:GLU:HB3	1:B:9:ALA:HB1	0.76	1.57	13	4
1:B:75:ALA:O	1:B:78:ALA:HB3	0.76	1.81	18	5
1:A:81:THR:CG2	1:B:11:ILE:HD11	0.76	2.09	3	4
1:A:32:LEU:HD22	1:A:76:PHE:CE2	0.76	2.16	19	1
1:A:36:ILE:HD13	1:A:76:PHE:CZ	0.75	2.16	3	3
1:A:40:LEU:HD11	1:A:81:THR:HA	0.75	1.55	7	1
1:B:60:LEU:HD11	1:B:76:PHE:CB	0.75	2.11	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:60:LEU:N	1:A:60:LEU:HD23	0.75	1.97	11	4
1:A:13:VAL:HG21	1:B:3:LEU:HD21	0.75	1.55	10	4
1:B:40:LEU:HD21	1:B:81:THR:HA	0.75	1.56	20	1
1:B:13:VAL:HG22	1:B:17:TYR:CE2	0.75	2.17	2	2
1:A:27:LEU:HD22	1:A:31:GLU:HB3	0.75	1.58	15	9
1:A:47:ILE:HD12	1:A:53:VAL:HG21	0.75	1.56	11	1
1:A:56:VAL:HG13	1:A:60:LEU:HD11	0.75	1.56	14	2
1:A:11:ILE:HD13	1:A:11:ILE:O	0.75	1.81	15	2
1:A:33:LYS:HD3	1:A:53:VAL:HG11	0.75	1.58	13	3
1:A:35:LEU:HD21	1:B:3:LEU:HD11	0.75	1.58	13	2
1:B:27:LEU:CD1	1:B:32:LEU:HD23	0.75	2.08	12	1
1:A:13:VAL:HG11	1:B:3:LEU:HD21	0.74	1.57	3	6
1:A:36:ILE:HG13	1:A:53:VAL:HG22	0.74	1.59	16	1
1:A:32:LEU:HD13	1:A:60:LEU:HD12	0.74	1.58	11	1
1:A:13:VAL:HG13	1:A:35:LEU:HD21	0.74	1.57	1	9
1:B:56:VAL:CB	1:B:60:LEU:HD13	0.74	2.11	9	4
1:B:27:LEU:HD22	1:B:31:GLU:HB3	0.74	1.57	5	6
1:A:36:ILE:HD12	1:A:53:VAL:HG13	0.74	1.58	12	1
1:B:27:LEU:HD13	1:B:35:LEU:HD11	0.74	1.57	20	2
1:A:36:ILE:CG2	1:A:80:VAL:HG11	0.74	2.11	12	3
1:A:31:GLU:O	1:A:35:LEU:HD23	0.74	1.82	20	1
1:B:60:LEU:HD22	1:B:76:PHE:CE1	0.74	2.17	6	1
1:A:17:TYR:CE2	1:A:35:LEU:HD21	0.74	2.18	14	1
1:A:56:VAL:CB	1:A:60:LEU:HD13	0.74	2.13	17	3
1:A:40:LEU:HD13	1:A:80:VAL:HB	0.74	1.60	4	1
1:B:17:TYR:OH	1:B:27:LEU:HD13	0.73	1.83	3	1
1:B:36:ILE:HD11	1:B:76:PHE:CZ	0.73	2.17	10	4
1:A:10:LEU:HD22	1:B:3:LEU:HD23	0.73	1.59	7	2
1:B:36:ILE:CG2	1:B:47:ILE:HD11	0.73	2.12	16	2
1:A:13:VAL:HG13	1:A:17:TYR:CD1	0.73	2.19	15	9
1:B:47:ILE:HD11	1:B:80:VAL:HG11	0.73	1.61	2	1
1:A:13:VAL:HG11	1:B:3:LEU:HD11	0.73	1.58	9	2
1:B:32:LEU:HD13	1:B:60:LEU:CD2	0.73	2.12	13	1
1:A:60:LEU:HD21	1:A:76:PHE:CD1	0.73	2.19	17	1
1:B:13:VAL:HG23	1:B:35:LEU:HD21	0.73	1.60	13	1
1:A:76:PHE:CE1	1:A:80:VAL:HG21	0.73	2.19	1	10
1:A:11:ILE:HD11	1:B:81:THR:CG2	0.73	2.14	6	3
1:B:36:ILE:HG23	1:B:40:LEU:HD22	0.73	1.58	15	1
1:A:3:LEU:CD1	1:B:13:VAL:HG21	0.73	2.13	7	5
1:A:9:ALA:HB1	1:B:2:GLU:HA	0.72	1.61	12	4
1:A:17:TYR:CZ	1:A:35:LEU:HD12	0.72	2.19	19	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:27:LEU:HD13	1:B:68:CYS:SG	0.72	2.24	19	2
1:A:52:VAL:O	1:A:56:VAL:HG22	0.72	1.85	7	12
1:A:2:GLU:CA	1:B:9:ALA:HB1	0.72	2.14	7	5
1:A:3:LEU:N	1:A:3:LEU:HD22	0.72	2.00	3	4
1:A:13:VAL:CG2	1:B:3:LEU:HD11	0.72	2.14	6	1
1:B:52:VAL:HB	1:B:80:VAL:HG13	0.72	1.60	5	10
1:A:11:ILE:HD11	1:B:81:THR:HG21	0.72	1.59	6	3
1:B:39:GLU:HG3	1:B:40:LEU:HD22	0.72	1.62	7	1
1:B:35:LEU:HD23	1:B:76:PHE:CE2	0.72	2.19	12	1
1:A:52:VAL:CB	1:A:80:VAL:HG13	0.72	2.14	11	11
1:A:60:LEU:HD13	1:A:76:PHE:CD1	0.72	2.20	5	2
1:A:40:LEU:HD21	1:B:7:MET:SD	0.72	2.24	16	1
1:B:11:ILE:HD13	1:B:11:ILE:O	0.72	1.85	8	3
1:A:32:LEU:HD23	1:A:60:LEU:HD22	0.72	1.62	13	1
1:A:9:ALA:HB1	1:B:2:GLU:HB3	0.71	1.63	5	4
1:A:13:VAL:HG22	1:A:17:TYR:CE1	0.71	2.20	20	1
1:A:7:MET:O	1:A:11:ILE:HD12	0.71	1.85	11	4
1:A:78:ALA:HB2	1:B:74:MET:SD	0.71	2.26	6	3
1:B:32:LEU:HD21	1:B:68:CYS:CB	0.71	2.16	20	2
1:A:9:ALA:HB1	1:B:2:GLU:CA	0.71	2.16	2	7
1:B:56:VAL:HG11	1:B:76:PHE:CE1	0.71	2.20	15	5
1:A:9:ALA:HB1	1:B:2:GLU:HG2	0.71	1.62	8	1
1:A:47:ILE:HD13	1:A:47:ILE:N	0.71	1.99	18	4
1:A:57:MET:HA	1:A:60:LEU:HD12	0.70	1.63	15	3
1:A:36:ILE:HG23	1:A:40:LEU:HD22	0.70	1.63	10	2
1:A:35:LEU:HD13	1:A:73:PHE:CE1	0.70	2.21	8	2
1:A:74:MET:HE3	1:A:75:ALA:HB2	0.70	1.61	20	1
1:A:78:ALA:HB1	1:B:71:GLN:HA	0.70	1.64	13	7
1:B:56:VAL:HG11	1:B:80:VAL:HG22	0.70	1.63	2	2
1:B:33:LYS:HG2	1:B:53:VAL:HG11	0.70	1.63	18	5
1:A:3:LEU:HD22	1:B:39:GLU:HG2	0.70	1.62	9	1
1:A:18:SER:OG	1:A:27:LEU:HD12	0.70	1.86	11	1
1:A:35:LEU:CD2	1:B:3:LEU:HD11	0.70	2.17	2	4
1:A:47:ILE:HD12	1:A:53:VAL:CG2	0.70	2.16	11	1
1:A:47:ILE:HG21	1:A:53:VAL:CG2	0.70	2.17	15	2
1:B:47:ILE:HG22	1:B:49:GLU:H	0.70	1.45	18	1
1:B:10:LEU:HD22	1:B:74:MET:SD	0.70	2.27	1	1
1:A:32:LEU:HD22	1:A:60:LEU:CD1	0.70	2.16	9	1
1:A:76:PHE:CD2	1:A:77:VAL:HG23	0.70	2.22	13	5
1:A:60:LEU:HD22	1:A:72:GLU:OE1	0.70	1.87	20	2
1:B:14:PHE:CD2	1:B:70:PHE:CD2	0.69	2.80	13	13

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:77:VAL:HG12	1:B:7:MET:HE1	0.69	1.64	4	1
1:A:10:LEU:HD23	1:B:3:LEU:HD13	0.69	1.62	15	1
1:B:47:ILE:HG13	1:B:53:VAL:HG21	0.69	1.64	3	6
1:A:17:TYR:CG	1:A:35:LEU:HD21	0.69	2.22	9	4
1:B:32:LEU:CD1	1:B:60:LEU:HD22	0.69	2.17	13	2
1:B:36:ILE:HD13	1:B:36:ILE:N	0.69	2.02	5	3
1:A:74:MET:SD	1:B:78:ALA:HB2	0.69	2.26	17	3
1:B:3:LEU:N	1:B:3:LEU:HD22	0.69	2.03	14	6
1:B:32:LEU:HD21	1:B:76:PHE:CE2	0.69	2.22	6	1
1:B:39:GLU:HG2	1:B:40:LEU:HD22	0.69	1.65	7	1
1:B:11:ILE:HD13	1:B:70:PHE:HZ	0.69	1.47	11	3
1:A:14:PHE:CD2	1:A:70:PHE:CD2	0.69	2.81	10	12
1:A:36:ILE:CG2	1:A:47:ILE:HD11	0.69	2.10	15	3
1:B:13:VAL:HG12	1:B:73:PHE:CZ	0.69	2.22	3	8
1:A:11:ILE:HD13	1:A:70:PHE:HZ	0.69	1.46	4	1
1:A:39:GLU:C	1:A:40:LEU:HD12	0.69	2.07	10	1
1:B:47:ILE:O	1:B:47:ILE:HG22	0.69	1.86	11	2
1:B:13:VAL:HG13	1:B:35:LEU:CD2	0.69	2.16	20	1
1:B:52:VAL:CB	1:B:80:VAL:HG13	0.69	2.18	5	11
1:A:73:PHE:CZ	1:B:3:LEU:HD21	0.69	2.23	12	2
1:B:13:VAL:HG11	1:B:35:LEU:HD21	0.69	1.64	1	5
1:A:14:PHE:CD1	1:A:73:PHE:CD1	0.69	2.81	7	2
1:A:47:ILE:HG22	1:A:50:GLN:N	0.69	2.03	10	1
1:B:60:LEU:HD22	1:B:76:PHE:CB	0.69	2.18	12	3
1:A:39:GLU:CB	1:B:3:LEU:HD12	0.69	2.18	13	1
1:B:32:LEU:HD21	1:B:68:CYS:HB2	0.69	1.63	20	1
1:A:56:VAL:HG21	1:A:76:PHE:CE1	0.68	2.23	19	4
1:B:27:LEU:HD13	1:B:35:LEU:CD1	0.68	2.17	4	1
1:B:7:MET:HE1	1:B:11:ILE:HD13	0.68	1.64	5	1
1:B:17:TYR:CE1	1:B:35:LEU:HD11	0.68	2.23	19	1
1:A:4:GLU:O	1:A:8:VAL:HG23	0.68	1.89	12	1
1:A:32:LEU:HD22	1:A:60:LEU:CD2	0.68	2.18	8	3
1:A:56:VAL:HG13	1:A:60:LEU:CD1	0.68	2.18	14	3
1:A:14:PHE:CD2	1:A:73:PHE:CD2	0.68	2.81	20	1
1:A:36:ILE:HD11	1:A:80:VAL:HG21	0.68	1.65	9	2
1:A:2:GLU:OE1	1:B:9:ALA:HB1	0.68	1.87	4	1
1:A:32:LEU:CD1	1:A:57:MET:HE2	0.68	2.19	18	3
1:A:79:MET:O	1:A:83:ALA:HB3	0.68	1.89	17	20
1:B:17:TYR:CD2	1:B:35:LEU:HD12	0.68	2.23	13	1
1:A:27:LEU:HD22	1:A:32:LEU:HD23	0.67	1.65	11	3
1:A:47:ILE:HD13	1:A:53:VAL:HG23	0.67	1.66	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:78:ALA:HB2	1:B:74:MET:CG	0.67	2.19	6	4
1:A:14:PHE:CE2	1:A:73:PHE:CD1	0.67	2.81	20	1
1:B:79:MET:O	1:B:83:ALA:HB3	0.67	1.90	20	20
1:B:75:ALA:HB1	1:B:79:MET:HE2	0.67	1.65	17	1
1:A:3:LEU:HD11	1:B:13:VAL:HG11	0.67	1.67	2	3
1:A:27:LEU:CD1	1:A:35:LEU:HD11	0.67	2.16	9	1
1:A:33:LYS:CE	1:A:47:ILE:HD11	0.67	2.19	16	1
1:A:18:SER:OG	1:A:27:LEU:HD21	0.67	1.88	20	1
1:B:13:VAL:HG11	1:B:73:PHE:CZ	0.67	2.25	17	2
1:A:36:ILE:CD1	1:A:53:VAL:HG22	0.67	2.18	13	2
1:B:52:VAL:HG11	1:B:80:VAL:HG13	0.67	1.65	4	6
1:A:60:LEU:HD13	1:A:76:PHE:CE1	0.66	2.25	5	1
1:A:3:LEU:HD13	1:B:39:GLU:CG	0.66	2.19	11	1
1:B:36:ILE:CG2	1:B:40:LEU:HD22	0.66	2.19	15	1
1:A:35:LEU:HD22	1:B:3:LEU:HD21	0.66	1.66	18	1
1:A:10:LEU:HD23	1:B:3:LEU:CD1	0.66	2.20	1	4
1:A:3:LEU:HD23	1:B:10:LEU:CD1	0.66	2.20	11	1
1:A:33:LYS:NZ	1:A:47:ILE:HD11	0.66	2.05	16	1
1:A:15:HIS:CE1	1:A:25:HIS:CD2	0.66	2.83	7	1
1:A:36:ILE:HD12	1:A:53:VAL:HG22	0.66	1.66	10	2
1:B:35:LEU:HD22	1:B:73:PHE:CZ	0.66	2.26	13	1
1:A:33:LYS:HD2	1:A:53:VAL:HG11	0.66	1.67	17	2
1:A:36:ILE:HG23	1:A:40:LEU:CD1	0.66	2.21	20	1
1:A:39:GLU:OE1	1:B:3:LEU:HD22	0.66	1.90	2	2
1:B:36:ILE:CG2	1:B:80:VAL:HG11	0.66	2.21	2	3
1:B:35:LEU:HD12	1:B:77:VAL:CG2	0.66	2.20	15	1
1:A:17:TYR:N	1:A:17:TYR:CD1	0.66	2.64	20	1
1:B:47:ILE:HD12	1:B:53:VAL:HG23	0.65	1.68	16	9
1:A:47:ILE:CD1	1:A:53:VAL:HG21	0.65	2.14	14	4
1:B:76:PHE:CD2	1:B:77:VAL:HG23	0.65	2.27	18	5
1:A:40:LEU:HD12	1:A:40:LEU:N	0.65	2.06	10	2
1:B:36:ILE:HG21	1:B:47:ILE:CD1	0.65	2.22	2	3
1:B:27:LEU:CD1	1:B:35:LEU:HD11	0.65	2.21	20	2
1:A:3:LEU:HD22	1:B:10:LEU:HD23	0.65	1.67	8	1
1:A:29:LYS:HA	1:A:32:LEU:HD12	0.65	1.68	12	3
1:B:35:LEU:HD22	1:B:73:PHE:HE1	0.65	1.50	6	1
1:A:39:GLU:CD	1:A:77:VAL:HG13	0.65	2.11	12	1
1:A:60:LEU:CD1	1:A:76:PHE:CE2	0.65	2.80	19	1
1:A:10:LEU:CD2	1:B:3:LEU:HD23	0.65	2.21	7	4
1:B:40:LEU:N	1:B:40:LEU:HD22	0.65	2.07	4	2
1:A:3:LEU:CD2	1:B:35:LEU:HD12	0.65	2.22	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:36:ILE:CD1	1:A:80:VAL:HG11	0.65	2.20	15	1
1:B:32:LEU:HD22	1:B:60:LEU:HD23	0.65	1.68	1	1
1:B:60:LEU:HD21	1:B:76:PHE:HB2	0.65	1.66	7	4
1:A:3:LEU:HD21	1:B:73:PHE:CZ	0.65	2.27	7	3
1:A:35:LEU:HD23	1:A:76:PHE:CE2	0.65	2.27	10	1
1:B:56:VAL:HG22	1:B:60:LEU:HD11	0.65	1.69	5	2
1:A:17:TYR:CD2	1:A:35:LEU:HD21	0.65	2.26	16	3
1:A:33:LYS:CG	1:A:53:VAL:HG21	0.65	2.22	17	1
1:B:36:ILE:CD1	1:B:76:PHE:CE1	0.65	2.79	17	5
1:B:76:PHE:CD1	1:B:80:VAL:CG2	0.65	2.80	20	5
1:B:32:LEU:CD2	1:B:60:LEU:HD12	0.65	2.09	19	2
1:A:3:LEU:HD22	1:B:10:LEU:CD2	0.65	2.22	8	1
1:B:60:LEU:HD11	1:B:76:PHE:HA	0.65	1.67	17	3
1:A:9:ALA:HB1	1:B:2:GLU:CB	0.65	2.21	2	4
1:A:36:ILE:CD1	1:A:76:PHE:CE2	0.65	2.80	3	6
1:A:47:ILE:HD11	1:A:80:VAL:CG1	0.65	2.21	8	2
1:A:39:GLU:OE1	1:A:77:VAL:HG13	0.65	1.92	8	1
1:B:17:TYR:CE2	1:B:35:LEU:HD11	0.65	2.26	10	1
1:A:10:LEU:CD1	1:B:3:LEU:HD22	0.65	2.22	13	1
1:B:17:TYR:CD2	1:B:35:LEU:CD1	0.64	2.79	13	3
1:A:39:GLU:OE2	1:A:40:LEU:HD22	0.64	1.92	14	1
1:B:47:ILE:HG22	1:B:49:GLU:O	0.64	1.92	17	1
1:B:36:ILE:CD1	1:B:76:PHE:CZ	0.64	2.80	15	9
1:B:72:GLU:CB	1:B:76:PHE:CZ	0.64	2.81	13	2
1:A:76:PHE:CD1	1:A:77:VAL:HG23	0.64	2.28	16	1
1:B:11:ILE:HD13	1:B:11:ILE:C	0.64	2.13	9	3
1:B:60:LEU:CD2	1:B:76:PHE:CD2	0.64	2.80	14	3
1:B:36:ILE:CD1	1:B:76:PHE:CE2	0.64	2.80	14	2
1:A:60:LEU:CD1	1:A:76:PHE:CD2	0.64	2.81	2	2
1:B:76:PHE:CE1	1:B:80:VAL:CG2	0.64	2.81	14	6
1:B:14:PHE:CD2	1:B:70:PHE:CE2	0.64	2.86	9	5
1:B:40:LEU:HD13	1:B:80:VAL:HB	0.64	1.70	3	1
1:A:60:LEU:CD1	1:A:76:PHE:CD1	0.64	2.81	9	2
1:B:47:ILE:HG21	1:B:53:VAL:CG2	0.64	2.22	7	2
1:A:40:LEU:N	1:A:40:LEU:HD12	0.64	2.08	15	1
1:A:60:LEU:CD1	1:A:76:PHE:CG	0.64	2.81	2	1
1:A:3:LEU:HD23	1:B:10:LEU:CD2	0.64	2.22	4	3
1:A:36:ILE:CD1	1:A:76:PHE:CE1	0.64	2.80	17	4
1:A:36:ILE:HG21	1:A:53:VAL:HG22	0.64	1.69	16	1
1:B:17:TYR:CE2	1:B:35:LEU:CD1	0.64	2.81	10	3
1:B:17:TYR:CZ	1:B:35:LEU:CD2	0.64	2.81	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:31:GLU:O	1:B:35:LEU:HD12	0.64	1.92	20	1
1:A:26:LYS:C	1:A:27:LEU:HD12	0.63	2.14	3	1
1:A:36:ILE:CD1	1:A:76:PHE:CZ	0.63	2.81	3	9
1:B:60:LEU:CD1	1:B:76:PHE:CD2	0.63	2.80	20	3
1:A:32:LEU:HD22	1:A:60:LEU:HD12	0.63	1.68	9	1
1:B:10:LEU:CD2	1:B:73:PHE:CZ	0.63	2.81	3	2
1:A:11:ILE:HD13	1:A:11:ILE:C	0.63	2.14	15	2
1:A:74:MET:CG	1:B:78:ALA:HB2	0.63	2.24	5	5
1:B:11:ILE:CD1	1:B:70:PHE:CZ	0.63	2.81	6	2
1:A:59:THR:HG21	1:A:79:MET:HE1	0.63	1.69	2	2
1:B:60:LEU:HD23	1:B:60:LEU:N	0.63	2.07	19	5
1:B:32:LEU:CD2	1:B:76:PHE:CD2	0.63	2.81	6	1
1:B:17:TYR:CZ	1:B:35:LEU:HD12	0.63	2.29	17	2
1:B:56:VAL:CG2	1:B:76:PHE:CE1	0.63	2.80	10	3
1:A:36:ILE:CD1	1:A:76:PHE:CD2	0.63	2.81	20	1
1:A:36:ILE:CG1	1:A:76:PHE:CZ	0.63	2.81	8	3
1:A:60:LEU:HD22	1:A:76:PHE:CE1	0.63	2.28	5	1
1:A:17:TYR:CD2	1:A:35:LEU:CD2	0.63	2.81	15	4
1:B:32:LEU:HD21	1:B:60:LEU:HD22	0.63	1.69	5	1
1:B:10:LEU:HD13	1:B:73:PHE:CZ	0.63	2.29	14	2
1:B:60:LEU:CD1	1:B:76:PHE:CG	0.63	2.81	15	1
1:A:32:LEU:CD2	1:A:76:PHE:CE2	0.63	2.81	5	1
1:A:17:TYR:CZ	1:A:35:LEU:CD1	0.63	2.82	10	4
1:B:13:VAL:HG12	1:B:35:LEU:HD21	0.62	1.70	1	1
1:B:27:LEU:CD1	1:B:35:LEU:HD12	0.62	2.23	2	2
1:A:10:LEU:HD23	1:A:73:PHE:CZ	0.62	2.28	12	3
1:B:17:TYR:CD2	1:B:35:LEU:CD2	0.62	2.81	15	5
1:B:47:ILE:HD12	1:B:53:VAL:CG2	0.62	2.24	1	5
1:A:60:LEU:CD2	1:A:76:PHE:CD2	0.62	2.81	8	3
1:A:13:VAL:CG1	1:A:73:PHE:CZ	0.62	2.82	18	6
1:B:32:LEU:HD23	1:B:60:LEU:HD22	0.62	1.70	5	1
1:A:76:PHE:CG	1:A:77:VAL:N	0.62	2.67	10	5
1:A:3:LEU:HD12	1:B:77:VAL:CG2	0.62	2.19	16	1
1:A:17:TYR:CE1	1:A:35:LEU:HD11	0.62	2.29	16	2
1:A:3:LEU:CD1	1:B:35:LEU:HD21	0.62	2.24	8	1
1:B:76:PHE:CE2	1:B:77:VAL:CG2	0.62	2.82	18	3
1:A:17:TYR:OH	1:A:35:LEU:HD13	0.62	1.94	20	1
1:B:17:TYR:CG	1:B:35:LEU:CD2	0.62	2.81	11	1
1:A:73:PHE:HZ	1:B:3:LEU:HD21	0.62	1.53	12	1
1:A:74:MET:CE	1:A:75:ALA:HB2	0.62	2.24	20	1
1:A:60:LEU:HD21	1:A:76:PHE:CB	0.62	2.23	8	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:77:VAL:HG12	1:B:7:MET:CE	0.62	2.23	4	2
1:B:60:LEU:HD21	1:B:76:PHE:CB	0.62	2.24	8	7
1:A:56:VAL:HG21	1:A:76:PHE:CZ	0.62	2.29	2	2
1:A:6:ALA:CB	1:B:10:LEU:HD23	0.62	2.23	20	5
1:A:6:ALA:HB1	1:B:10:LEU:HD23	0.62	1.71	20	2
1:B:10:LEU:HD12	1:B:73:PHE:CE2	0.62	2.30	9	2
1:B:56:VAL:CG2	1:B:76:PHE:CD1	0.62	2.83	10	1
1:A:33:LYS:CD	1:A:47:ILE:HD11	0.62	2.23	19	2
1:A:36:ILE:HG21	1:A:47:ILE:HD12	0.62	1.72	2	1
1:A:47:ILE:HD11	1:A:80:VAL:HG11	0.62	1.69	2	2
1:B:28:LYS:O	1:B:32:LEU:HD12	0.62	1.95	5	1
1:B:26:LYS:O	1:B:27:LEU:HD23	0.62	1.94	9	2
1:B:72:GLU:O	1:B:76:PHE:CG	0.62	2.53	13	1
1:A:2:GLU:HA	1:B:9:ALA:HB1	0.62	1.72	7	5
1:A:3:LEU:HD13	1:B:10:LEU:CD2	0.62	2.25	16	2
1:B:13:VAL:CG1	1:B:73:PHE:CZ	0.61	2.82	3	9
1:A:6:ALA:HB1	1:B:10:LEU:HD11	0.61	1.72	5	3
1:A:17:TYR:CE2	1:A:35:LEU:CD2	0.61	2.83	14	3
1:B:40:LEU:HD11	1:B:77:VAL:HG13	0.61	1.72	13	2
1:B:27:LEU:HD12	1:B:31:GLU:CB	0.61	2.24	10	1
1:A:28:LYS:O	1:A:30:SER:N	0.61	2.33	13	8
1:B:72:GLU:O	1:B:76:PHE:CD1	0.61	2.54	6	1
1:A:76:PHE:CE2	1:A:77:VAL:CG2	0.61	2.83	10	3
1:A:2:GLU:HB2	1:B:9:ALA:HB1	0.61	1.71	10	1
1:B:36:ILE:HG23	1:B:40:LEU:HB2	0.61	1.72	13	2
1:A:27:LEU:HD23	1:A:32:LEU:N	0.61	2.11	2	5
1:B:56:VAL:O	1:B:59:THR:HG22	0.61	1.95	10	3
1:A:33:LYS:CD	1:A:53:VAL:HG21	0.61	2.25	17	2
1:A:39:GLU:HB3	1:B:3:LEU:HD12	0.61	1.71	13	1
1:A:36:ILE:HD13	1:A:80:VAL:HG11	0.61	1.72	17	2
1:A:10:LEU:HD11	1:B:6:ALA:CB	0.61	2.24	1	1
1:B:17:TYR:CE2	1:B:35:LEU:HD12	0.61	2.30	9	2
1:B:29:LYS:HA	1:B:32:LEU:HD12	0.61	1.71	20	4
1:B:13:VAL:CG1	1:B:73:PHE:CE1	0.61	2.83	16	3
1:B:17:TYR:CZ	1:B:35:LEU:CD1	0.61	2.84	17	3
1:A:74:MET:SD	1:B:75:ALA:HB2	0.61	2.36	16	1
1:A:33:LYS:CE	1:A:53:VAL:HG21	0.61	2.25	19	1
1:A:17:TYR:HE2	1:A:35:LEU:HD22	0.61	1.55	20	1
1:B:76:PHE:CG	1:B:77:VAL:N	0.61	2.67	16	6
1:A:76:PHE:HD1	1:A:77:VAL:HG23	0.61	1.54	16	1
1:B:35:LEU:CD2	1:B:73:PHE:CE1	0.61	2.84	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:17:TYR:CD2	1:B:35:LEU:HD13	0.60	2.31	1	1
1:A:3:LEU:HD23	1:B:10:LEU:HD12	0.60	1.72	11	1
1:B:28:LYS:O	1:B:30:SER:N	0.60	2.33	16	12
1:A:72:GLU:O	1:A:76:PHE:CD1	0.60	2.53	5	1
1:B:32:LEU:CD2	1:B:76:PHE:CE2	0.60	2.84	6	1
1:B:60:LEU:HD13	1:B:76:PHE:CD2	0.60	2.31	20	2
1:A:27:LEU:HD23	1:A:31:GLU:O	0.60	1.96	7	1
1:A:40:LEU:N	1:A:40:LEU:HD22	0.60	2.11	12	1
1:B:18:SER:N	1:B:27:LEU:HD21	0.60	2.11	7	1
1:B:77:VAL:O	1:B:81:THR:HG23	0.60	1.96	12	1
1:B:13:VAL:O	1:B:17:TYR:CD1	0.60	2.54	13	1
1:B:40:LEU:HD12	1:B:40:LEU:N	0.60	2.11	15	1
1:A:60:LEU:HD13	1:A:76:PHE:CB	0.60	2.26	16	1
1:A:32:LEU:HD22	1:A:76:PHE:CD2	0.60	2.31	19	1
1:A:79:MET:C	1:A:83:ALA:HB3	0.60	2.17	2	11
1:A:47:ILE:CG2	1:A:53:VAL:CG2	0.60	2.80	12	2
1:A:32:LEU:CD2	1:A:60:LEU:CD2	0.60	2.80	17	2
1:B:76:PHE:CD2	1:B:77:VAL:N	0.60	2.69	1	2
1:A:47:ILE:O	1:A:49:GLU:N	0.60	2.34	15	6
1:A:3:LEU:HD11	1:B:10:LEU:CD1	0.60	2.23	15	1
1:B:32:LEU:O	1:B:36:ILE:HD12	0.60	1.97	4	3
1:B:32:LEU:CD1	1:B:57:MET:HE2	0.60	2.27	10	1
1:A:50:GLN:HA	1:A:53:VAL:HG12	0.60	1.74	17	1
1:A:7:MET:CE	1:B:40:LEU:HD11	0.60	2.26	19	1
1:A:39:GLU:OE1	1:A:77:VAL:HG22	0.60	1.96	12	2
1:A:40:LEU:HD11	1:A:80:VAL:C	0.60	2.17	14	1
1:B:40:LEU:CD1	1:B:77:VAL:HG13	0.60	2.27	9	2
1:A:13:VAL:CG1	1:A:35:LEU:CD2	0.59	2.80	9	6
1:B:13:VAL:CG1	1:B:35:LEU:CD1	0.59	2.80	14	2
1:B:77:VAL:HA	1:B:80:VAL:HG23	0.59	1.72	18	2
1:A:35:LEU:CD2	1:B:3:LEU:CD1	0.59	2.80	13	3
1:B:59:THR:HG21	1:B:79:MET:CE	0.59	2.27	17	2
1:A:79:MET:O	1:A:83:ALA:N	0.59	2.36	4	19
1:B:10:LEU:CD1	1:B:73:PHE:CE2	0.59	2.85	9	2
1:A:35:LEU:HD13	1:A:73:PHE:HE1	0.59	1.56	18	1
1:A:47:ILE:HG21	1:A:50:GLN:HA	0.59	1.74	19	1
1:A:47:ILE:HG22	1:A:49:GLU:O	0.59	1.97	20	1
1:B:39:GLU:C	1:B:40:LEU:HD23	0.59	2.18	16	1
1:B:60:LEU:HD11	1:B:76:PHE:CG	0.59	2.32	14	3
1:B:10:LEU:HD12	1:B:73:PHE:HZ	0.59	1.55	20	1
1:B:13:VAL:CG1	1:B:35:LEU:CD2	0.59	2.81	4	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:33:LYS:CD	1:B:47:ILE:CD1	0.59	2.80	19	1
1:A:10:LEU:CD2	1:B:3:LEU:CD1	0.59	2.81	14	4
1:B:56:VAL:HG22	1:B:60:LEU:CD1	0.59	2.27	5	2
1:A:36:ILE:CG1	1:A:53:VAL:HG22	0.59	2.27	16	1
1:A:82:THR:CG2	1:A:83:ALA:N	0.59	2.66	15	14
1:B:27:LEU:O	1:B:32:LEU:HD11	0.59	1.98	5	1
1:B:47:ILE:O	1:B:48:LYS:CB	0.59	2.51	18	6
1:A:6:ALA:CB	1:B:10:LEU:CD2	0.59	2.81	20	5
1:A:3:LEU:HD13	1:B:39:GLU:CD	0.59	2.18	11	1
1:A:60:LEU:CD2	1:A:76:PHE:CG	0.59	2.80	8	4
1:B:32:LEU:CD2	1:B:60:LEU:CD1	0.59	2.81	4	2
1:A:29:LYS:CG	1:A:57:MET:CG	0.59	2.81	2	1
1:A:82:THR:OG1	1:B:70:PHE:CG	0.59	2.56	13	4
1:B:13:VAL:HG22	1:B:17:TYR:HE2	0.59	1.55	2	3
1:B:32:LEU:CD1	1:B:57:MET:CE	0.59	2.80	10	4
1:B:47:ILE:N	1:B:47:ILE:HD13	0.59	2.11	8	2
1:A:32:LEU:CD1	1:A:57:MET:CE	0.59	2.81	5	6
1:A:6:ALA:HB3	1:B:10:LEU:CD2	0.59	2.28	20	2
1:B:39:GLU:HG3	1:B:77:VAL:HG13	0.59	1.75	10	1
1:A:11:ILE:CD1	1:A:70:PHE:CZ	0.59	2.86	18	1
1:A:3:LEU:CD1	1:B:35:LEU:CD2	0.58	2.81	8	1
1:A:70:PHE:CG	1:B:82:THR:OG1	0.58	2.55	19	3
1:A:2:GLU:CB	1:B:9:ALA:HB1	0.58	2.27	10	4
1:A:27:LEU:CD1	1:A:35:LEU:CD1	0.58	2.81	9	1
1:B:35:LEU:HD23	1:B:77:VAL:CG2	0.58	2.28	9	1
1:A:3:LEU:CD2	1:B:10:LEU:CD2	0.58	2.81	13	1
1:A:76:PHE:CD1	1:A:77:VAL:N	0.58	2.71	16	1
1:A:28:LYS:O	1:A:28:LYS:CG	0.58	2.51	1	3
1:A:17:TYR:CD1	1:A:35:LEU:HD11	0.58	2.33	16	2
1:A:52:VAL:O	1:A:56:VAL:HG12	0.58	1.99	15	8
1:B:32:LEU:HD21	1:B:72:GLU:CD	0.58	2.19	16	1
1:A:47:ILE:HG21	1:A:53:VAL:CG1	0.58	2.28	17	1
1:A:71:GLN:CA	1:B:78:ALA:HB1	0.58	2.29	18	1
1:B:40:LEU:HD23	1:B:80:VAL:HB	0.58	1.74	19	1
1:B:60:LEU:HD11	1:B:76:PHE:HB2	0.58	1.75	14	2
1:B:82:THR:CG2	1:B:83:ALA:N	0.58	2.66	9	17
1:A:3:LEU:N	1:A:3:LEU:CD2	0.58	2.67	6	3
1:A:33:LYS:CG	1:A:53:VAL:CG1	0.58	2.81	15	2
1:B:17:TYR:CE1	1:B:27:LEU:HD21	0.58	2.34	3	1
1:A:13:VAL:HG11	1:A:73:PHE:CZ	0.58	2.34	18	3
1:B:35:LEU:HD23	1:B:76:PHE:HE2	0.58	1.58	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:32:LEU:HD22	1:B:68:CYS:SG	0.58	2.38	13	1
1:A:3:LEU:CD1	1:A:3:LEU:N	0.58	2.67	5	3
1:B:10:LEU:O	1:B:73:PHE:CE2	0.58	2.57	15	3
1:B:36:ILE:HA	1:B:40:LEU:HD23	0.58	1.74	10	1
1:B:72:GLU:O	1:B:76:PHE:CD2	0.58	2.56	13	1
1:A:14:PHE:CE2	1:A:25:HIS:O	0.58	2.57	4	5
1:A:13:VAL:HG12	1:A:35:LEU:HD11	0.58	1.74	13	3
1:B:28:LYS:O	1:B:28:LYS:CG	0.58	2.52	18	5
1:B:13:VAL:HG11	1:B:35:LEU:HD11	0.58	1.75	3	3
1:B:26:LYS:CB	1:B:67:GLU:CB	0.58	2.81	4	1
1:A:47:ILE:HG21	1:A:53:VAL:HB	0.58	1.73	7	1
1:B:17:TYR:CD2	1:B:34:GLU:OE1	0.58	2.57	12	1
1:A:14:PHE:CD2	1:A:73:PHE:CG	0.58	2.90	20	1
1:A:36:ILE:CG2	1:A:47:ILE:CD1	0.58	2.81	1	3
1:B:6:ALA:O	1:B:10:LEU:HD12	0.58	1.98	6	2
1:A:60:LEU:CD2	1:A:76:PHE:CD1	0.58	2.86	17	2
1:A:3:LEU:CD1	1:B:10:LEU:CD2	0.58	2.81	16	2
1:B:37:ASN:HD21	1:B:47:ILE:HD11	0.58	1.57	9	1
1:A:57:MET:HE2	1:A:61:ASP:OD2	0.58	1.99	14	1
1:B:36:ILE:CD1	1:B:36:ILE:N	0.58	2.67	14	1
1:A:47:ILE:HG21	1:A:53:VAL:HG12	0.58	1.74	17	1
1:B:14:PHE:CZ	1:B:25:HIS:O	0.58	2.57	7	5
1:B:3:LEU:CD1	1:B:3:LEU:N	0.58	2.67	5	3
1:A:32:LEU:CD2	1:A:60:LEU:CD1	0.58	2.81	9	3
1:B:47:ILE:HG21	1:B:53:VAL:HB	0.58	1.74	15	2
1:A:27:LEU:HD12	1:A:32:LEU:CD2	0.58	2.29	14	1
1:A:32:LEU:HD21	1:A:72:GLU:OE2	0.58	1.98	20	1
1:A:14:PHE:CZ	1:A:25:HIS:O	0.58	2.57	11	3
1:B:3:LEU:N	1:B:3:LEU:CD2	0.58	2.67	14	5
1:B:36:ILE:CG2	1:B:47:ILE:CD1	0.58	2.81	2	4
1:A:60:LEU:HD22	1:A:76:PHE:HB2	0.58	1.74	11	6
1:A:40:LEU:O	1:A:41:SER:CB	0.58	2.52	13	6
1:A:60:LEU:N	1:A:60:LEU:CD2	0.58	2.66	11	2
1:A:10:LEU:CD1	1:B:6:ALA:HB1	0.57	2.28	1	3
1:A:27:LEU:HD21	1:A:35:LEU:HD12	0.57	1.76	1	1
1:B:36:ILE:HG22	1:B:47:ILE:HD11	0.57	1.73	16	1
1:A:14:PHE:CD2	1:A:70:PHE:CE2	0.57	2.92	10	6
1:B:14:PHE:CE2	1:B:25:HIS:O	0.57	2.57	9	7
1:A:56:VAL:HG22	1:A:60:LEU:CD1	0.57	2.29	13	1
1:B:13:VAL:HG21	1:B:35:LEU:HD11	0.57	1.76	3	1
1:B:56:VAL:HG11	1:B:76:PHE:HE1	0.57	1.58	15	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:LYS:HD3	1:A:53:VAL:HG21	0.57	1.76	5	1
1:A:24:LYS:O	1:A:25:HIS:CG	0.57	2.57	7	2
1:B:10:LEU:CD1	1:B:73:PHE:CZ	0.57	2.88	14	2
1:A:60:LEU:HD21	1:A:76:PHE:HB2	0.57	1.75	13	4
1:A:6:ALA:HB1	1:B:10:LEU:HD12	0.57	1.76	4	1
1:A:37:ASN:HD21	1:A:47:ILE:HG21	0.57	1.59	5	1
1:B:47:ILE:HD13	1:B:53:VAL:HB	0.57	1.76	6	1
1:B:10:LEU:O	1:B:73:PHE:CZ	0.57	2.57	15	1
1:A:33:LYS:HD2	1:A:47:ILE:HD11	0.57	1.76	19	1
1:A:52:VAL:HG11	1:A:80:VAL:HG13	0.57	1.77	11	4
1:A:36:ILE:HG13	1:A:40:LEU:HD13	0.57	1.76	3	1
1:B:76:PHE:CD1	1:B:76:PHE:C	0.57	2.78	11	7
1:B:56:VAL:CG2	1:B:76:PHE:CZ	0.57	2.86	8	2
1:A:11:ILE:N	1:A:11:ILE:CD1	0.57	2.68	9	1
1:B:14:PHE:CZ	1:B:70:PHE:N	0.57	2.73	18	2
1:B:60:LEU:HD23	1:B:68:CYS:SG	0.57	2.39	13	1
1:A:60:LEU:HD23	1:A:72:GLU:OE2	0.57	2.00	17	2
1:A:79:MET:O	1:A:83:ALA:CB	0.57	2.52	16	20
1:B:60:LEU:CD1	1:B:76:PHE:CE2	0.57	2.88	8	2
1:A:47:ILE:O	1:A:48:LYS:CB	0.57	2.53	1	5
1:A:15:HIS:CE1	1:A:25:HIS:CE1	0.57	2.93	11	1
1:A:21:GLU:CG	1:A:28:LYS:CD	0.57	2.83	12	1
1:B:13:VAL:HB	1:B:17:TYR:CE2	0.57	2.34	15	1
1:A:36:ILE:HG21	1:A:53:VAL:HG23	0.57	1.74	16	1
1:A:3:LEU:HD21	1:B:73:PHE:HZ	0.57	1.58	4	1
1:A:6:ALA:HB1	1:B:10:LEU:CD1	0.57	2.29	5	2
1:B:72:GLU:HB3	1:B:76:PHE:CZ	0.57	2.35	13	2
1:B:52:VAL:HG12	1:B:80:VAL:HG13	0.57	1.75	20	1
1:B:73:PHE:CE2	1:B:74:MET:SD	0.57	2.98	20	1
1:B:79:MET:O	1:B:83:ALA:N	0.57	2.38	16	20
1:B:59:THR:HG21	1:B:79:MET:HE1	0.57	1.75	17	1
1:A:59:THR:CG2	1:A:60:LEU:N	0.57	2.68	18	1
1:A:24:LYS:O	1:A:25:HIS:CD2	0.56	2.58	18	2
1:B:79:MET:O	1:B:83:ALA:CB	0.56	2.53	5	20
1:B:79:MET:C	1:B:83:ALA:HB3	0.56	2.21	18	13
1:A:77:VAL:HG21	1:B:3:LEU:CD2	0.56	2.29	5	4
1:A:7:MET:CE	1:B:40:LEU:CD1	0.56	2.83	19	1
1:A:39:GLU:HB2	1:B:3:LEU:HD13	0.56	1.77	12	1
1:B:48:LYS:O	1:B:49:GLU:CB	0.56	2.53	20	6
1:B:76:PHE:O	1:B:80:VAL:HG22	0.56	2.01	18	3
1:B:56:VAL:CB	1:B:76:PHE:CE1	0.56	2.89	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:48:LYS:O	1:A:49:GLU:CB	0.56	2.53	4	6
1:A:82:THR:HG21	1:B:70:PHE:CB	0.56	2.30	4	2
1:A:56:VAL:CG1	1:A:57:MET:N	0.56	2.67	6	6
1:B:47:ILE:HD13	1:B:53:VAL:CB	0.56	2.30	6	2
1:A:40:LEU:N	1:A:40:LEU:CD1	0.56	2.68	15	2
1:B:25:HIS:O	1:B:25:HIS:CD2	0.56	2.57	15	1
1:A:10:LEU:CD1	1:B:3:LEU:CD1	0.56	2.84	17	1
1:A:78:ALA:CB	1:B:74:MET:HB3	0.56	2.31	19	2
1:A:32:LEU:HD12	1:A:57:MET:CE	0.56	2.29	18	1
1:B:13:VAL:HG13	1:B:35:LEU:HD23	0.56	1.76	20	1
1:B:52:VAL:CG1	1:B:80:VAL:CG1	0.56	2.81	9	7
1:A:27:LEU:CD2	1:A:35:LEU:CD1	0.56	2.82	3	2
1:A:56:VAL:O	1:A:59:THR:HG22	0.56	2.00	6	3
1:B:8:VAL:HG12	1:B:12:ASP:OD2	0.56	2.00	15	1
1:A:78:ALA:CB	1:B:74:MET:CB	0.56	2.84	17	3
1:A:6:ALA:HB1	1:B:6:ALA:CB	0.56	2.26	10	2
1:A:32:LEU:HD21	1:A:60:LEU:CD2	0.56	2.30	17	1
1:B:47:ILE:O	1:B:51:GLU:CB	0.56	2.54	18	1
1:A:78:ALA:HB1	1:B:74:MET:HB3	0.56	1.77	19	1
1:B:56:VAL:HG23	1:B:57:MET:N	0.56	2.16	2	12
1:A:3:LEU:HD13	1:B:39:GLU:HG2	0.56	1.78	12	1
1:A:39:GLU:CG	1:B:3:LEU:CB	0.56	2.84	12	2
1:A:17:TYR:CD1	1:A:31:GLU:OE1	0.56	2.59	14	1
1:B:36:ILE:N	1:B:36:ILE:HD12	0.56	2.16	14	1
1:A:33:LYS:HZ2	1:A:47:ILE:HD11	0.56	1.59	16	1
1:A:77:VAL:HG21	1:B:3:LEU:CG	0.56	2.27	17	1
1:B:13:VAL:HG12	1:B:73:PHE:CE1	0.56	2.36	12	3
1:A:37:ASN:N	1:A:37:ASN:ND2	0.56	2.53	13	1
1:A:36:ILE:HD13	1:A:80:VAL:HG21	0.56	1.75	9	1
1:A:13:VAL:HG11	1:A:35:LEU:CD2	0.56	2.31	1	4
1:B:52:VAL:HG11	1:B:80:VAL:CG1	0.56	2.30	9	8
1:A:60:LEU:HD11	1:A:76:PHE:CD1	0.56	2.35	6	5
1:B:47:ILE:HG21	1:B:50:GLN:HA	0.56	1.77	10	2
1:B:14:PHE:CE1	1:B:68:CYS:SG	0.56	2.99	19	1
1:A:56:VAL:HG23	1:A:57:MET:N	0.56	2.16	12	10
1:B:11:ILE:HG23	1:B:70:PHE:HZ	0.56	1.62	6	4
1:A:72:GLU:HB3	1:A:76:PHE:CZ	0.56	2.36	5	1
1:A:32:LEU:HD23	1:A:76:PHE:CZ	0.56	2.35	9	1
1:A:47:ILE:HG21	1:A:53:VAL:HG21	0.56	1.78	15	1
1:A:7:MET:HE3	1:B:40:LEU:HD11	0.56	1.77	19	1
1:B:11:ILE:HD13	1:B:70:PHE:CE1	0.55	2.36	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:TYR:CE1	1:A:35:LEU:CD1	0.55	2.89	19	2
1:B:35:LEU:HD21	1:B:73:PHE:CD1	0.55	2.36	14	1
1:A:37:ASN:ND2	1:A:47:ILE:CD1	0.55	2.66	20	1
1:A:36:ILE:HG13	1:A:76:PHE:CZ	0.55	2.36	8	6
1:A:47:ILE:O	1:A:48:LYS:CG	0.55	2.54	11	4
1:A:36:ILE:N	1:A:36:ILE:HD12	0.55	2.17	2	3
1:A:11:ILE:HG23	1:A:12:ASP:N	0.55	2.16	16	6
1:A:75:ALA:O	1:A:78:ALA:HB3	0.55	2.01	13	3
1:B:14:PHE:O	1:B:18:SER:CB	0.55	2.55	3	6
1:B:52:VAL:O	1:B:56:VAL:CG2	0.55	2.55	20	12
1:A:13:VAL:CG1	1:A:35:LEU:CD1	0.55	2.82	2	2
1:B:27:LEU:CD1	1:B:35:LEU:CD1	0.55	2.83	4	2
1:A:81:THR:CG2	1:A:82:THR:N	0.55	2.69	15	3
1:A:3:LEU:HD23	1:B:10:LEU:HD21	0.55	1.78	13	1
1:A:6:ALA:CB	1:B:6:ALA:HB1	0.55	2.24	10	4
1:A:3:LEU:HD22	1:B:35:LEU:HD12	0.55	1.77	5	1
1:B:60:LEU:HD13	1:B:76:PHE:HB2	0.55	1.79	18	3
1:B:17:TYR:CE2	1:B:35:LEU:HD22	0.55	2.36	15	1
1:B:3:LEU:N	1:B:3:LEU:HD23	0.55	2.16	13	1
1:A:2:GLU:CG	1:A:3:LEU:HD22	0.55	2.32	3	1
1:A:76:PHE:O	1:A:80:VAL:HG23	0.55	2.02	20	9
1:A:56:VAL:HA	1:A:59:THR:HG22	0.55	1.78	15	3
1:A:23:ASP:CB	1:A:25:HIS:NE2	0.55	2.70	20	1
1:A:52:VAL:O	1:A:56:VAL:CG1	0.55	2.55	14	20
1:B:36:ILE:HD12	1:B:76:PHE:CE1	0.55	2.37	1	1
1:A:14:PHE:CZ	1:A:70:PHE:N	0.55	2.75	2	3
1:B:36:ILE:HD11	1:B:76:PHE:CE2	0.55	2.36	10	4
1:B:10:LEU:CD2	1:B:73:PHE:CE2	0.55	2.87	17	2
1:B:56:VAL:CG1	1:B:57:MET:N	0.55	2.69	10	6
1:A:35:LEU:HD21	1:B:3:LEU:CD1	0.55	2.32	13	1
1:A:36:ILE:CD1	1:A:36:ILE:N	0.55	2.69	7	3
1:B:56:VAL:HA	1:B:59:THR:HG22	0.55	1.76	8	1
1:B:10:LEU:CD2	1:B:10:LEU:N	0.55	2.70	15	1
1:B:59:THR:HG23	1:B:60:LEU:N	0.55	2.17	8	1
1:A:76:PHE:O	1:A:80:VAL:CG2	0.54	2.56	16	5
1:B:35:LEU:O	1:B:39:GLU:CB	0.54	2.56	19	6
1:A:10:LEU:CD1	1:B:10:LEU:CD1	0.54	2.84	6	1
1:A:47:ILE:CD1	1:A:53:VAL:CG2	0.54	2.80	10	2
1:B:32:LEU:HB3	1:B:76:PHE:CE2	0.54	2.37	20	2
1:A:74:MET:O	1:A:78:ALA:CB	0.54	2.55	17	3
1:B:11:ILE:CG2	1:B:12:ASP:N	0.54	2.71	2	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:10:LEU:O	1:B:13:VAL:HG12	0.54	2.02	3	2
1:B:47:ILE:O	1:B:48:LYS:CG	0.54	2.55	18	5
1:A:77:VAL:HG12	1:B:74:MET:SD	0.54	2.42	13	1
1:A:10:LEU:HD23	1:B:3:LEU:HD11	0.54	1.78	14	3
1:B:36:ILE:HD13	1:B:76:PHE:CZ	0.54	2.37	15	2
1:A:68:CYS:SG	1:A:72:GLU:CG	0.54	2.96	20	5
1:B:11:ILE:HG23	1:B:12:ASP:N	0.54	2.17	2	4
1:B:3:LEU:N	1:B:3:LEU:HD12	0.54	2.17	5	3
1:B:37:ASN:N	1:B:37:ASN:ND2	0.54	2.54	16	2
1:B:60:LEU:CD2	1:B:76:PHE:CD1	0.54	2.82	6	1
1:A:10:LEU:HD23	1:B:6:ALA:HB1	0.54	1.78	7	1
1:B:39:GLU:CG	1:B:40:LEU:CD2	0.54	2.81	7	1
1:B:5:LYS:O	1:B:8:VAL:HG12	0.54	2.02	9	3
1:B:37:ASN:ND2	1:B:47:ILE:HD11	0.54	2.17	17	2
1:B:48:LYS:O	1:B:49:GLU:CG	0.54	2.55	17	2
1:B:7:MET:HE3	1:B:11:ILE:HD13	0.54	1.76	5	1
1:A:13:VAL:HG22	1:A:17:TYR:CE2	0.54	2.37	14	1
1:A:56:VAL:CG1	1:A:76:PHE:CE1	0.54	2.90	14	1
1:B:40:LEU:HD11	1:B:81:THR:OG1	0.54	2.03	20	2
1:B:31:GLU:O	1:B:34:GLU:CG	0.54	2.55	16	2
1:B:26:LYS:CB	1:B:68:CYS:O	0.54	2.56	8	12
1:B:36:ILE:HG13	1:B:76:PHE:CE1	0.54	2.38	16	2
1:A:10:LEU:HD21	1:B:3:LEU:HD23	0.54	1.78	8	1
1:A:79:MET:HE1	1:A:83:ALA:HB2	0.54	1.79	17	1
1:B:52:VAL:O	1:B:56:VAL:CG1	0.54	2.55	7	19
1:A:76:PHE:CD1	1:A:76:PHE:C	0.54	2.81	4	6
1:B:17:TYR:OH	1:B:27:LEU:CD1	0.54	2.55	3	1
1:A:35:LEU:CD2	1:A:73:PHE:CZ	0.54	2.91	4	1
1:A:2:GLU:CG	1:B:13:VAL:HG23	0.54	2.33	16	2
1:A:27:LEU:CB	1:A:32:LEU:CD2	0.54	2.86	10	1
1:A:27:LEU:CD1	1:A:32:LEU:HD22	0.54	2.33	10	1
1:A:3:LEU:N	1:A:3:LEU:HD12	0.54	2.18	9	3
1:A:52:VAL:O	1:A:56:VAL:CG2	0.54	2.56	2	10
1:A:13:VAL:HG13	1:A:35:LEU:HD11	0.54	1.74	13	3
1:A:81:THR:HG23	1:A:82:THR:N	0.54	2.17	8	3
1:B:14:PHE:CD1	1:B:73:PHE:CD2	0.54	2.96	10	1
1:A:39:GLU:OE1	1:A:77:VAL:CG2	0.54	2.55	19	2
1:A:35:LEU:HD22	1:B:3:LEU:CD2	0.54	2.32	18	1
1:A:40:LEU:HD22	1:A:80:VAL:HB	0.54	1.78	18	1
1:B:28:LYS:CD	1:B:31:GLU:OE2	0.54	2.56	19	1
1:A:49:GLU:O	1:A:50:GLN:CB	0.54	2.56	1	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:32:LEU:O	1:A:36:ILE:HD12	0.54	2.03	11	2
1:B:22:GLY:O	1:B:23:ASP:CB	0.54	2.56	7	1
1:B:35:LEU:O	1:B:39:GLU:CG	0.54	2.55	7	2
1:B:72:GLU:O	1:B:76:PHE:CB	0.54	2.56	7	3
1:A:22:GLY:O	1:A:23:ASP:CB	0.54	2.56	13	3
1:A:32:LEU:HD21	1:A:68:CYS:CB	0.54	2.33	12	1
1:A:14:PHE:CD2	1:A:73:PHE:CE2	0.54	2.96	20	1
1:B:18:SER:O	1:B:24:LYS:CB	0.54	2.56	20	1
1:B:73:PHE:CG	1:B:74:MET:N	0.54	2.75	20	1
1:B:36:ILE:HG21	1:B:80:VAL:HG11	0.54	1.80	2	1
1:B:40:LEU:O	1:B:41:SER:CB	0.54	2.56	4	4
1:A:11:ILE:CG2	1:A:12:ASP:N	0.54	2.71	16	6
1:B:29:LYS:N	1:B:29:LYS:CE	0.54	2.71	9	1
1:B:47:ILE:O	1:B:47:ILE:CG2	0.54	2.56	11	2
1:B:72:GLU:CA	1:B:72:GLU:OE1	0.54	2.56	12	2
1:B:36:ILE:HD13	1:B:76:PHE:CE2	0.54	2.38	14	1
1:B:40:LEU:N	1:B:40:LEU:CD1	0.54	2.71	15	1
1:B:27:LEU:HD23	1:B:32:LEU:N	0.54	2.18	16	2
1:B:49:GLU:O	1:B:50:GLN:CG	0.54	2.56	16	1
1:B:68:CYS:CB	1:B:72:GLU:OE1	0.54	2.56	19	1
1:A:36:ILE:CG2	1:A:47:ILE:HD12	0.53	2.33	2	1
1:B:56:VAL:HB	1:B:76:PHE:CE1	0.53	2.38	2	1
1:B:33:LYS:HE2	1:B:53:VAL:HG11	0.53	1.78	15	1
1:A:74:MET:SD	1:A:75:ALA:N	0.53	2.81	20	2
1:B:47:ILE:HG22	1:B:47:ILE:O	0.53	2.00	17	1
1:A:52:VAL:CG1	1:A:80:VAL:CG1	0.53	2.84	17	8
1:A:2:GLU:HG3	1:B:13:VAL:HG23	0.53	1.79	4	2
1:B:52:VAL:O	1:B:56:VAL:HG12	0.53	2.03	7	5
1:B:27:LEU:HD12	1:B:31:GLU:HB3	0.53	1.79	10	1
1:A:7:MET:CE	1:B:81:THR:CG2	0.53	2.86	13	1
1:B:32:LEU:HD22	1:B:60:LEU:CD2	0.53	2.32	14	1
1:B:11:ILE:HG23	1:B:70:PHE:CZ	0.53	2.38	6	4
1:B:17:TYR:CD1	1:B:17:TYR:C	0.53	2.80	3	1
1:A:47:ILE:HG23	1:A:53:VAL:HG23	0.53	1.79	8	3
1:A:27:LEU:HB2	1:A:32:LEU:CD2	0.53	2.34	10	2
1:B:3:LEU:CD2	1:B:3:LEU:N	0.53	2.71	15	2
1:A:56:VAL:CG1	1:A:60:LEU:HD21	0.53	2.33	16	1
1:A:35:LEU:CD2	1:A:39:GLU:OE1	0.53	2.57	19	1
1:A:26:LYS:CB	1:A:68:CYS:O	0.53	2.57	12	12
1:B:36:ILE:O	1:B:40:LEU:CB	0.53	2.56	12	3
1:B:76:PHE:O	1:B:80:VAL:CG2	0.53	2.56	18	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:LEU:HB2	1:A:32:LEU:HD21	0.53	1.79	6	1
1:A:29:LYS:H	1:A:32:LEU:HD13	0.53	1.64	7	1
1:B:23:ASP:O	1:B:25:HIS:N	0.53	2.42	8	1
1:A:3:LEU:HD23	1:B:77:VAL:CG2	0.53	2.29	9	1
1:A:60:LEU:CD2	1:A:72:GLU:O	0.53	2.57	10	2
1:B:13:VAL:HG11	1:B:35:LEU:CD2	0.53	2.34	18	5
1:A:12:ASP:O	1:A:16:GLN:CB	0.53	2.57	4	9
1:B:32:LEU:HD12	1:B:60:LEU:HD22	0.53	1.81	7	1
1:A:13:VAL:CG1	1:A:35:LEU:HD22	0.53	2.33	9	1
1:A:67:GLU:CG	1:A:67:GLU:O	0.53	2.57	9	1
1:B:60:LEU:CG	1:B:72:GLU:OE1	0.53	2.57	9	1
1:B:56:VAL:HG13	1:B:57:MET:N	0.53	2.18	10	1
1:A:36:ILE:HD13	1:A:76:PHE:CD2	0.53	2.37	20	1
1:A:36:ILE:O	1:A:40:LEU:CB	0.53	2.57	6	3
1:A:36:ILE:HD11	1:A:76:PHE:CD2	0.53	2.38	8	2
1:A:60:LEU:HD13	1:A:76:PHE:CD2	0.53	2.39	2	2
1:B:14:PHE:CE2	1:B:70:PHE:CD2	0.53	2.97	9	1
1:A:27:LEU:HD12	1:A:32:LEU:HD23	0.53	1.81	14	2
1:A:39:GLU:CG	1:A:40:LEU:N	0.53	2.71	19	1
1:B:36:ILE:HG13	1:B:76:PHE:CZ	0.53	2.39	3	6
1:B:27:LEU:HD23	1:B:27:LEU:N	0.53	2.19	14	1
1:B:50:GLN:CG	1:B:50:GLN:O	0.53	2.57	17	1
1:A:33:LYS:CB	1:A:37:ASN:OD1	0.53	2.56	20	1
1:B:27:LEU:HD11	1:B:35:LEU:CD1	0.53	2.34	2	1
1:B:34:GLU:O	1:B:38:ASN:N	0.53	2.41	6	5
1:A:23:ASP:O	1:A:24:LYS:CB	0.53	2.57	8	4
1:A:26:LYS:CD	1:A:68:CYS:O	0.53	2.57	4	1
1:B:75:ALA:O	1:B:79:MET:CG	0.53	2.57	12	2
1:A:35:LEU:O	1:A:39:GLU:CB	0.53	2.56	12	3
1:B:13:VAL:HG11	1:B:73:PHE:CE1	0.53	2.39	16	1
1:A:6:ALA:O	1:A:10:LEU:CD1	0.53	2.57	5	3
1:A:7:MET:O	1:A:11:ILE:CD1	0.53	2.57	11	3
1:A:52:VAL:HG11	1:A:80:VAL:CG1	0.53	2.34	3	5
1:A:71:GLN:O	1:A:75:ALA:CB	0.53	2.57	2	1
1:A:2:GLU:OE1	1:B:9:ALA:CB	0.53	2.57	4	1
1:A:17:TYR:CG	1:A:35:LEU:CD1	0.53	2.92	4	1
1:A:13:VAL:CG2	1:B:2:GLU:OE1	0.53	2.57	8	1
1:A:75:ALA:O	1:A:79:MET:CG	0.53	2.57	19	4
1:A:35:LEU:O	1:A:39:GLU:CG	0.53	2.57	14	5
1:B:60:LEU:HD13	1:B:76:PHE:CG	0.53	2.39	15	2
1:A:53:VAL:O	1:A:57:MET:CB	0.53	2.56	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:5:LYS:O	1:B:9:ALA:CB	0.53	2.57	15	1
1:A:36:ILE:HG22	1:A:47:ILE:CD1	0.53	2.34	5	2
1:A:27:LEU:CD2	1:A:35:LEU:HD11	0.53	2.34	3	1
1:B:53:VAL:O	1:B:56:VAL:CG2	0.53	2.57	17	2
1:B:75:ALA:O	1:B:79:MET:CE	0.53	2.57	4	3
1:B:34:GLU:O	1:B:38:ASN:CB	0.53	2.57	6	2
1:A:39:GLU:OE1	1:A:77:VAL:CG1	0.53	2.57	8	1
1:A:47:ILE:HD13	1:A:47:ILE:H	0.53	1.64	18	2
1:A:18:SER:OG	1:A:24:LYS:CA	0.53	2.57	14	2
1:B:16:GLN:O	1:B:20:ARG:CG	0.53	2.57	12	1
1:B:60:LEU:O	1:B:72:GLU:CB	0.53	2.56	12	1
1:A:47:ILE:CG1	1:A:53:VAL:HG21	0.53	2.32	13	3
1:B:39:GLU:OE2	1:B:77:VAL:CG1	0.53	2.57	15	1
1:B:47:ILE:CG2	1:B:53:VAL:CG2	0.53	2.87	20	1
1:A:7:MET:O	1:A:11:ILE:CG1	0.52	2.57	18	4
1:A:53:VAL:O	1:A:56:VAL:CG2	0.52	2.57	16	3
1:A:60:LEU:HD11	1:A:76:PHE:HA	0.52	1.80	3	2
1:A:77:VAL:O	1:A:81:THR:CB	0.52	2.57	7	16
1:B:12:ASP:O	1:B:16:GLN:CB	0.52	2.57	5	8
1:A:32:LEU:CD2	1:A:72:GLU:OE2	0.52	2.57	2	1
1:A:3:LEU:O	1:A:7:MET:CB	0.52	2.57	20	3
1:A:51:GLU:O	1:A:55:LYS:CG	0.52	2.57	9	1
1:B:5:LYS:O	1:B:8:VAL:CG1	0.52	2.57	9	1
1:B:57:MET:O	1:B:61:ASP:CB	0.52	2.57	9	2
1:B:68:CYS:SG	1:B:72:GLU:CG	0.52	2.97	16	3
1:B:17:TYR:OH	1:B:38:ASN:CB	0.52	2.57	15	2
1:A:74:MET:SD	1:B:75:ALA:N	0.52	2.82	20	1
1:A:3:LEU:CB	1:B:39:GLU:CG	0.52	2.87	4	1
1:B:3:LEU:O	1:B:7:MET:CB	0.52	2.57	20	2
1:B:24:LYS:O	1:B:25:HIS:CG	0.52	2.62	10	2
1:A:40:LEU:HD12	1:A:40:LEU:H	0.52	1.63	8	1
1:B:37:ASN:OD1	1:B:47:ILE:CG1	0.52	2.57	8	1
1:A:51:GLU:O	1:A:55:LYS:CB	0.52	2.57	16	3
1:A:48:LYS:O	1:A:49:GLU:CG	0.52	2.57	11	1
1:B:20:ARG:O	1:B:21:GLU:CG	0.52	2.57	13	1
1:B:28:LYS:CG	1:B:31:GLU:OE2	0.52	2.57	14	1
1:A:62:ASN:CB	1:A:67:GLU:O	0.52	2.56	16	1
1:A:60:LEU:HB3	1:A:76:PHE:CE1	0.52	2.39	5	1
1:A:3:LEU:O	1:A:7:MET:CG	0.52	2.57	8	2
1:A:27:LEU:HB3	1:A:32:LEU:HD12	0.52	1.81	7	1
1:B:36:ILE:HG12	1:B:80:VAL:HG11	0.52	1.81	12	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:48:LYS:CG	1:B:49:GLU:N	0.52	2.72	9	1
1:A:57:MET:HE2	1:A:61:ASP:OD1	0.52	2.05	11	1
1:A:33:LYS:HG3	1:A:53:VAL:HG21	0.52	1.81	17	1
1:B:37:ASN:HD21	1:B:47:ILE:HG21	0.52	1.65	18	1
1:A:75:ALA:CB	1:B:74:MET:SD	0.52	2.97	19	1
1:A:18:SER:HA	1:A:27:LEU:CD2	0.52	2.34	20	1
1:A:33:LYS:CA	1:A:37:ASN:OD1	0.52	2.57	20	1
1:A:26:LYS:CG	1:A:68:CYS:O	0.52	2.58	1	3
1:B:49:GLU:O	1:B:50:GLN:CB	0.52	2.56	12	7
1:A:59:THR:CG2	1:A:79:MET:CE	0.52	2.85	2	1
1:B:17:TYR:O	1:B:19:GLY:N	0.52	2.43	6	2
1:A:21:GLU:CG	1:A:22:GLY:N	0.52	2.73	3	1
1:B:40:LEU:HD22	1:B:80:VAL:C	0.52	2.25	3	1
1:A:56:VAL:HG22	1:A:60:LEU:CD2	0.52	2.23	5	1
1:A:72:GLU:O	1:A:76:PHE:CB	0.52	2.57	6	3
1:B:12:ASP:O	1:B:16:GLN:CG	0.52	2.57	12	2
1:A:27:LEU:HD13	1:A:32:LEU:HD22	0.52	1.81	10	1
1:A:62:ASN:CB	1:A:69:ASP:OD1	0.52	2.57	12	1
1:B:77:VAL:O	1:B:81:THR:CG2	0.52	2.57	12	1
1:A:2:GLU:OE1	1:B:12:ASP:CB	0.52	2.57	16	1
1:A:3:LEU:CD1	1:B:77:VAL:HG21	0.52	2.21	16	1
1:B:32:LEU:HD21	1:B:72:GLU:OE1	0.52	2.05	16	1
1:A:34:GLU:O	1:A:38:ASN:CB	0.52	2.57	20	1
1:B:21:GLU:O	1:B:28:LYS:CE	0.52	2.58	3	1
1:A:28:LYS:CG	1:A:31:GLU:OE2	0.52	2.58	4	2
1:B:28:LYS:O	1:B:32:LEU:CD1	0.52	2.57	5	1
1:B:4:GLU:O	1:B:7:MET:CG	0.52	2.57	7	1
1:B:21:GLU:O	1:B:23:ASP:N	0.52	2.43	7	2
1:A:7:MET:CE	1:B:40:LEU:HD13	0.52	2.35	8	1
1:A:72:GLU:N	1:A:72:GLU:OE1	0.52	2.43	8	1
1:B:15:HIS:C	1:B:15:HIS:CD2	0.52	2.83	9	1
1:B:76:PHE:CZ	1:B:80:VAL:HG21	0.52	2.39	1	1
1:A:28:LYS:CG	1:A:28:LYS:O	0.52	2.57	12	4
1:B:26:LYS:HB3	1:B:67:GLU:CB	0.52	2.35	4	1
1:A:39:GLU:OE2	1:A:77:VAL:HG11	0.52	2.05	6	1
1:A:74:MET:HG3	1:B:78:ALA:HB2	0.52	1.82	6	1
1:B:7:MET:O	1:B:11:ILE:CG1	0.52	2.57	15	4
1:B:20:ARG:CG	1:B:31:GLU:OE2	0.52	2.57	8	1
1:B:27:LEU:HD22	1:B:32:LEU:HD23	0.52	1.80	8	2
1:A:36:ILE:HD11	1:A:76:PHE:HE1	0.52	1.64	15	1
1:A:13:VAL:CG1	1:A:73:PHE:CE1	0.52	2.93	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:74:MET:SD	1:B:75:ALA:N	0.52	2.82	17	2
1:A:13:VAL:HG22	1:A:17:TYR:HE1	0.52	1.62	20	1
1:A:78:ALA:HB1	1:B:71:GLN:O	0.52	2.03	2	2
1:B:31:GLU:N	1:B:31:GLU:OE1	0.52	2.43	11	7
1:B:1:SER:O	1:B:3:LEU:N	0.52	2.43	3	1
1:A:78:ALA:CB	1:B:74:MET:SD	0.52	2.98	6	2
1:B:24:LYS:O	1:B:25:HIS:CD2	0.52	2.63	10	1
1:A:74:MET:SD	1:B:75:ALA:CB	0.52	2.98	16	1
1:B:20:ARG:CZ	1:B:34:GLU:OE1	0.52	2.58	16	1
1:B:59:THR:CG2	1:B:79:MET:HE1	0.52	2.35	17	1
1:A:56:VAL:HG13	1:A:60:LEU:HD12	0.52	1.81	20	1
1:B:79:MET:O	1:B:81:THR:N	0.52	2.43	1	19
1:A:50:GLN:O	1:A:54:ASP:CB	0.52	2.57	2	1
1:A:60:LEU:HD11	1:A:76:PHE:CG	0.52	2.39	2	1
1:A:13:VAL:HG12	1:A:73:PHE:CE2	0.52	2.40	4	1
1:A:77:VAL:CG1	1:B:7:MET:CE	0.52	2.87	4	1
1:A:32:LEU:CD1	1:A:57:MET:SD	0.52	2.98	11	2
1:A:39:GLU:CB	1:B:3:LEU:HD13	0.52	2.35	12	1
1:A:60:LEU:HD21	1:A:76:PHE:HA	0.52	1.82	17	2
1:A:12:ASP:O	1:A:16:GLN:CG	0.52	2.58	19	1
1:A:36:ILE:HG23	1:A:40:LEU:CD2	0.52	2.35	20	1
1:A:74:MET:CB	1:B:78:ALA:CB	0.52	2.83	1	4
1:A:31:GLU:N	1:A:31:GLU:OE1	0.52	2.43	2	5
1:A:75:ALA:HA	1:B:75:ALA:HB2	0.52	1.82	2	1
1:B:27:LEU:HD11	1:B:35:LEU:HD12	0.52	1.79	2	1
1:A:36:ILE:CG1	1:A:80:VAL:HG21	0.52	2.35	7	1
1:A:39:GLU:N	1:A:39:GLU:OE1	0.52	2.43	9	1
1:A:18:SER:OG	1:A:26:LYS:N	0.52	2.43	10	2
1:B:62:ASN:CA	1:B:72:GLU:OE2	0.52	2.57	10	1
1:B:17:TYR:CE2	1:B:34:GLU:OE1	0.52	2.62	12	1
1:A:3:LEU:HD21	1:B:35:LEU:HD23	0.52	1.81	13	1
1:B:17:TYR:CE1	1:B:35:LEU:CD1	0.52	2.93	17	2
1:A:79:MET:O	1:A:81:THR:N	0.52	2.43	1	16
1:B:82:THR:HG23	1:B:83:ALA:N	0.52	2.20	5	17
1:B:17:TYR:CE2	1:B:35:LEU:HG	0.52	2.40	2	4
1:B:56:VAL:O	1:B:60:LEU:CD1	0.52	2.56	7	3
1:B:31:GLU:OE1	1:B:31:GLU:CA	0.52	2.57	18	3
1:A:35:LEU:CD1	1:B:3:LEU:CD1	0.52	2.88	7	1
1:B:82:THR:O	1:B:84:CYS:N	0.52	2.43	19	7
1:A:57:MET:CE	1:A:61:ASP:OD2	0.52	2.58	14	1
1:A:82:THR:OG1	1:B:70:PHE:CB	0.51	2.58	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:83:ALA:O	1:B:86:GLU:CG	0.51	2.57	3	3
1:B:29:LYS:CG	1:B:57:MET:SD	0.51	2.98	4	1
1:B:59:THR:HG21	1:B:79:MET:HE3	0.51	1.80	10	1
1:B:35:LEU:CD2	1:B:73:PHE:CZ	0.51	2.93	13	1
1:A:31:GLU:CA	1:A:31:GLU:OE1	0.51	2.57	1	1
1:A:31:GLU:OE1	1:A:31:GLU:N	0.51	2.43	1	2
1:A:14:PHE:CD1	1:A:73:PHE:CG	0.51	2.98	4	1
1:A:74:MET:SD	1:B:78:ALA:CA	0.51	2.99	15	2
1:A:17:TYR:OH	1:A:38:ASN:ND2	0.51	2.44	7	1
1:A:39:GLU:OE1	1:A:40:LEU:HD22	0.51	2.06	7	1
1:B:62:ASN:N	1:B:72:GLU:OE2	0.51	2.43	10	1
1:A:75:ALA:O	1:A:79:MET:CE	0.51	2.58	11	2
1:B:60:LEU:CB	1:B:68:CYS:SG	0.51	2.98	12	1
1:A:56:VAL:O	1:A:60:LEU:CD1	0.51	2.57	13	1
1:A:2:GLU:OE1	1:B:13:VAL:N	0.51	2.44	16	1
1:B:20:ARG:NE	1:B:34:GLU:OE1	0.51	2.43	16	1
1:B:32:LEU:CD2	1:B:72:GLU:OE2	0.51	2.57	16	1
1:A:79:MET:SD	1:B:74:MET:CE	0.51	2.98	19	1
1:A:11:ILE:HG12	1:A:70:PHE:CZ	0.51	2.39	20	4
1:A:60:LEU:HD22	1:A:76:PHE:CB	0.51	2.35	2	1
1:A:33:LYS:O	1:A:37:ASN:ND2	0.51	2.43	7	4
1:B:17:TYR:CE1	1:B:27:LEU:CD2	0.51	2.93	3	1
1:B:59:THR:CG2	1:B:79:MET:SD	0.51	2.97	4	2
1:B:68:CYS:SG	1:B:76:PHE:CZ	0.51	3.03	6	1
1:A:35:LEU:HG	1:A:73:PHE:CZ	0.51	2.40	7	1
1:A:13:VAL:HG21	1:B:2:GLU:OE1	0.51	2.05	8	1
1:A:10:LEU:CD2	1:A:74:MET:SD	0.51	2.98	9	1
1:A:10:LEU:CD2	1:A:73:PHE:CE2	0.51	2.81	12	2
1:B:34:GLU:CA	1:B:34:GLU:OE1	0.51	2.57	13	2
1:A:57:MET:HE1	1:A:57:MET:O	0.51	2.05	15	1
1:A:52:VAL:HG12	1:A:80:VAL:HG13	0.51	1.82	17	2
1:B:27:LEU:CD2	1:B:35:LEU:HD12	0.51	2.36	16	2
1:A:60:LEU:O	1:A:62:ASN:N	0.51	2.43	19	1
1:B:17:TYR:CD1	1:B:35:LEU:HD11	0.51	2.40	19	1
1:B:36:ILE:HG21	1:B:53:VAL:HG23	0.51	1.81	19	1
1:B:69:ASP:N	1:B:72:GLU:OE1	0.51	2.43	19	1
1:A:52:VAL:O	1:A:56:VAL:CB	0.51	2.58	15	7
1:A:18:SER:OG	1:A:25:HIS:N	0.51	2.44	7	2
1:A:56:VAL:O	1:A:60:LEU:CD2	0.51	2.59	9	1
1:A:69:ASP:O	1:A:73:PHE:N	0.51	2.43	9	1
1:A:39:GLU:OE2	1:A:77:VAL:CG1	0.51	2.58	12	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:21:GLU:O	1:A:23:ASP:N	0.51	2.43	1	4
1:A:56:VAL:O	1:A:58:GLU:N	0.51	2.44	19	9
1:A:82:THR:O	1:A:84:CYS:N	0.51	2.43	8	7
1:B:60:LEU:HB3	1:B:76:PHE:CE1	0.51	2.40	6	1
1:A:18:SER:OG	1:A:27:LEU:CD1	0.51	2.58	11	1
1:A:7:MET:SD	1:B:81:THR:CG2	0.51	2.99	13	1
1:A:36:ILE:CG1	1:A:80:VAL:HG11	0.51	2.36	15	1
1:B:60:LEU:HD11	1:B:76:PHE:CD1	0.51	2.40	15	1
1:A:71:GLN:O	1:A:74:MET:CE	0.51	2.58	16	1
1:B:40:LEU:HD21	1:B:81:THR:HG23	0.51	1.82	17	1
1:B:75:ALA:CB	1:B:79:MET:CE	0.51	2.83	17	1
1:A:13:VAL:HG13	1:A:35:LEU:CD1	0.51	2.34	20	1
1:A:78:ALA:HB1	1:B:71:GLN:CA	0.51	2.35	13	2
1:B:27:LEU:HB2	1:B:32:LEU:HD21	0.51	1.82	15	4
1:B:49:GLU:CG	1:B:49:GLU:O	0.51	2.58	6	1
1:A:74:MET:CG	1:B:74:MET:O	0.51	2.59	13	2
1:A:74:MET:SD	1:B:75:ALA:CA	0.51	2.98	20	2
1:B:67:GLU:O	1:B:67:GLU:CG	0.51	2.57	20	2
1:B:57:MET:CE	1:B:61:ASP:OD1	0.51	2.58	1	1
1:A:14:PHE:O	1:A:18:SER:CB	0.51	2.59	20	5
1:A:27:LEU:HD12	1:A:27:LEU:N	0.51	2.20	3	2
1:A:27:LEU:HD21	1:A:35:LEU:HD11	0.51	1.83	3	2
1:A:2:GLU:HB2	1:B:13:VAL:HG21	0.51	1.81	5	1
1:B:60:LEU:HG	1:B:76:PHE:CD2	0.51	2.40	13	1
1:B:59:THR:OG1	1:B:60:LEU:N	0.51	2.42	15	1
1:A:72:GLU:OE1	1:A:73:PHE:N	0.51	2.43	18	1
1:B:27:LEU:CD1	1:B:68:CYS:SG	0.51	2.98	19	1
1:A:78:ALA:CB	1:B:74:MET:HB2	0.51	2.36	6	11
1:B:76:PHE:O	1:B:80:VAL:HG23	0.51	2.06	5	11
1:B:27:LEU:HB2	1:B:32:LEU:CD2	0.51	2.36	7	5
1:B:48:LYS:CE	1:B:51:GLU:CG	0.51	2.89	3	1
1:A:17:TYR:CD2	1:A:35:LEU:HD12	0.51	2.41	4	1
1:B:36:ILE:HG21	1:B:47:ILE:HD12	0.51	1.83	4	1
1:A:56:VAL:HG23	1:A:79:MET:CE	0.51	2.35	9	1
1:A:82:THR:HG23	1:A:83:ALA:N	0.51	2.21	11	14
1:B:17:TYR:O	1:B:20:ARG:CG	0.51	2.58	1	2
1:B:77:VAL:O	1:B:81:THR:CB	0.51	2.59	1	11
1:B:47:ILE:CD1	1:B:53:VAL:HG23	0.51	2.28	7	1
1:B:60:LEU:HD13	1:B:76:PHE:CE2	0.51	2.41	8	1
1:A:36:ILE:HG12	1:A:76:PHE:CE1	0.51	2.41	10	4
1:B:36:ILE:HG12	1:B:76:PHE:CE1	0.51	2.41	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:LEU:CD2	1:B:6:ALA:CB	0.51	2.89	13	1
1:A:25:HIS:CG	1:A:25:HIS:O	0.51	2.63	15	1
1:A:47:ILE:C	1:A:48:LYS:CG	0.51	2.79	15	6
1:B:27:LEU:HD23	1:B:31:GLU:HB3	0.51	1.82	19	6
1:A:36:ILE:CG2	1:A:40:LEU:HD12	0.51	2.22	2	1
1:B:14:PHE:CD1	1:B:73:PHE:HB2	0.51	2.41	20	4
1:A:35:LEU:HD23	1:A:76:PHE:HE2	0.51	1.64	10	1
1:A:77:VAL:HG21	1:B:3:LEU:HD12	0.51	1.82	15	2
1:B:7:MET:SD	1:B:11:ILE:CD1	0.51	2.98	10	1
1:A:21:GLU:HG3	1:A:28:LYS:CD	0.51	2.35	12	3
1:A:76:PHE:CE1	1:A:80:VAL:CG2	0.50	2.94	8	4
1:A:60:LEU:HD13	1:A:76:PHE:CG	0.50	2.41	2	2
1:A:53:VAL:O	1:A:57:MET:HB2	0.50	2.06	15	4
1:A:32:LEU:CD1	1:A:57:MET:HE1	0.50	2.34	9	1
1:A:56:VAL:HG23	1:A:79:MET:HE2	0.50	1.82	9	1
1:B:60:LEU:CB	1:B:72:GLU:OE1	0.50	2.60	9	1
1:B:27:LEU:CD1	1:B:31:GLU:HB3	0.50	2.36	10	1
1:B:10:LEU:N	1:B:10:LEU:HD22	0.50	2.21	15	1
1:A:28:LYS:CG	1:A:31:GLU:OE1	0.50	2.59	16	1
1:B:27:LEU:CD2	1:B:31:GLU:HB3	0.50	2.36	19	6
1:B:40:LEU:HD22	1:B:80:VAL:O	0.50	2.05	3	1
1:A:82:THR:HG21	1:B:70:PHE:HB3	0.50	1.82	4	3
1:A:82:THR:OG1	1:B:70:PHE:CD2	0.50	2.57	6	1
1:B:56:VAL:HG13	1:B:60:LEU:HD13	0.50	1.83	7	1
1:A:69:ASP:N	1:A:69:ASP:OD1	0.50	2.43	15	2
1:A:59:THR:HG23	1:A:60:LEU:N	0.50	2.20	18	1
1:A:32:LEU:HB3	1:A:76:PHE:CE2	0.50	2.42	20	4
1:A:17:TYR:CE2	1:A:35:LEU:HA	0.50	2.41	17	3
1:B:27:LEU:O	1:B:32:LEU:CD1	0.50	2.59	5	1
1:A:27:LEU:CD1	1:A:32:LEU:HD23	0.50	2.36	19	2
1:B:10:LEU:O	1:B:13:VAL:HG22	0.50	2.05	15	1
1:A:71:GLN:O	1:A:74:MET:HE3	0.50	2.06	16	2
1:A:74:MET:O	1:A:78:ALA:HB2	0.50	2.06	16	2
1:A:3:LEU:HD11	1:B:10:LEU:HG	0.50	1.81	17	1
1:A:23:ASP:HB2	1:A:25:HIS:CE1	0.50	2.42	20	1
1:A:36:ILE:CG1	1:A:76:PHE:CE1	0.50	2.95	13	2
1:B:27:LEU:CG	1:B:31:GLU:HB3	0.50	2.37	19	7
1:B:40:LEU:HD21	1:B:81:THR:OG1	0.50	2.07	2	1
1:A:32:LEU:HD13	1:A:57:MET:HE2	0.50	1.83	5	1
1:A:47:ILE:HG12	1:A:53:VAL:HG23	0.50	1.84	7	1
1:A:74:MET:CE	1:B:78:ALA:CA	0.50	2.89	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:10:LEU:HG	1:B:73:PHE:CE2	0.50	2.41	7	1
1:A:3:LEU:HD11	1:B:35:LEU:CD1	0.50	2.36	11	1
1:A:56:VAL:HG22	1:A:60:LEU:HD11	0.50	1.84	13	1
1:A:39:GLU:HG3	1:A:40:LEU:N	0.50	2.22	19	3
1:A:13:VAL:HG12	1:A:73:PHE:CE1	0.50	2.41	17	1
1:A:11:ILE:HD13	1:A:70:PHE:CE1	0.50	2.41	18	1
1:A:27:LEU:HD23	1:A:31:GLU:HB3	0.50	1.82	5	6
1:A:32:LEU:CD1	1:A:68:CYS:SG	0.50	2.98	5	2
1:B:10:LEU:CG	1:B:73:PHE:CZ	0.50	2.95	3	1
1:A:13:VAL:HG12	1:A:73:PHE:CZ	0.50	2.41	8	5
1:A:73:PHE:HA	1:A:76:PHE:CD2	0.50	2.42	5	1
1:A:29:LYS:CD	1:A:30:SER:N	0.50	2.75	10	1
1:A:39:GLU:CG	1:B:3:LEU:HB3	0.50	2.36	12	1
1:B:13:VAL:HB	1:B:17:TYR:CE1	0.50	2.41	13	1
1:A:14:PHE:CD1	1:A:18:SER:OG	0.50	2.62	20	1
1:B:32:LEU:HB3	1:B:76:PHE:CD2	0.50	2.42	20	1
1:A:74:MET:HB2	1:B:78:ALA:CB	0.50	2.35	1	12
1:B:11:ILE:C	1:B:11:ILE:CD1	0.50	2.80	8	3
1:B:27:LEU:CB	1:B:32:LEU:CD2	0.50	2.90	7	1
1:B:17:TYR:CD1	1:B:35:LEU:CD2	0.50	2.95	11	1
1:A:7:MET:HE3	1:B:40:LEU:CD1	0.50	2.36	19	1
1:B:39:GLU:OE1	1:B:40:LEU:HD12	0.50	2.06	20	1
1:A:33:LYS:HG2	1:A:53:VAL:CG1	0.50	2.37	3	3
1:A:71:GLN:OE1	1:B:79:MET:CG	0.50	2.59	4	1
1:B:32:LEU:HD13	1:B:57:MET:CE	0.50	2.36	19	2
1:A:11:ILE:C	1:A:11:ILE:CD1	0.50	2.80	15	2
1:A:73:PHE:CZ	1:B:3:LEU:HD11	0.50	2.42	10	2
1:A:13:VAL:CG1	1:B:3:LEU:HD21	0.50	2.34	3	1
1:A:56:VAL:HG11	1:A:76:PHE:HE1	0.50	1.63	14	3
1:B:60:LEU:HD21	1:B:76:PHE:CE1	0.50	2.41	3	1
1:A:39:GLU:CG	1:B:3:LEU:HB2	0.50	2.37	15	5
1:B:26:LYS:CB	1:B:67:GLU:HB3	0.50	2.37	4	3
1:A:29:LYS:CG	1:A:57:MET:SD	0.50	2.99	5	2
1:B:21:GLU:CG	1:B:21:GLU:O	0.50	2.60	6	1
1:A:6:ALA:HB2	1:B:6:ALA:HA	0.50	1.83	7	3
1:B:39:GLU:CG	1:B:40:LEU:N	0.50	2.74	7	1
1:B:26:LYS:CG	1:B:68:CYS:O	0.50	2.59	11	2
1:A:7:MET:CE	1:B:81:THR:HG23	0.50	2.36	15	2
1:B:60:LEU:HG	1:B:76:PHE:CE2	0.50	2.42	13	1
1:A:3:LEU:HG	1:B:13:VAL:HG21	0.50	1.83	20	1
1:A:73:PHE:CD1	1:A:73:PHE:C	0.50	2.83	2	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:ALA:HA	1:B:6:ALA:HB2	0.50	1.84	13	3
1:A:3:LEU:HD21	1:B:13:VAL:HG11	0.50	1.84	10	2
1:A:49:GLU:O	1:A:50:GLN:C	0.50	2.50	11	4
1:B:36:ILE:HG13	1:B:40:LEU:HD12	0.50	1.84	14	1
1:A:36:ILE:HG12	1:A:80:VAL:HG11	0.50	1.84	15	1
1:B:33:LYS:HD3	1:B:47:ILE:CD1	0.50	2.35	19	1
1:A:23:ASP:HB3	1:A:25:HIS:NE2	0.50	2.22	20	1
1:B:28:LYS:O	1:B:29:LYS:C	0.49	2.50	11	10
1:B:64:GLY:O	1:B:65:ASP:CB	0.49	2.60	18	2
1:B:14:PHE:CE1	1:B:73:PHE:HB2	0.49	2.42	15	7
1:B:62:ASN:ND2	1:B:72:GLU:OE2	0.49	2.44	3	1
1:B:32:LEU:HD13	1:B:57:MET:HE2	0.49	1.83	19	2
1:A:19:GLY:HA3	1:A:24:LYS:CG	0.49	2.37	5	1
1:A:32:LEU:HD13	1:A:57:MET:HE3	0.49	1.77	9	1
1:B:33:LYS:HA	1:B:36:ILE:HD12	0.49	1.83	9	1
1:A:70:PHE:CB	1:B:82:THR:OG1	0.49	2.60	12	1
1:A:69:ASP:O	1:A:72:GLU:OE1	0.49	2.29	18	2
1:B:5:LYS:O	1:B:9:ALA:HB2	0.49	2.07	15	1
1:A:10:LEU:HD12	1:A:73:PHE:CE2	0.49	2.42	16	1
1:B:59:THR:O	1:B:60:LEU:C	0.49	2.50	17	12
1:B:68:CYS:SG	1:B:69:ASP:N	0.49	2.85	8	10
1:B:7:MET:CE	1:B:74:MET:CE	0.49	2.91	4	1
1:A:3:LEU:HD21	1:B:77:VAL:HG21	0.49	1.84	12	1
1:A:32:LEU:HD23	1:A:60:LEU:CD2	0.49	2.35	13	1
1:A:57:MET:O	1:A:57:MET:CE	0.49	2.60	15	1
1:B:13:VAL:HG22	1:B:73:PHE:CZ	0.49	2.42	15	1
1:B:60:LEU:N	1:B:60:LEU:HD23	0.49	2.22	15	1
1:B:18:SER:OG	1:B:25:HIS:N	0.49	2.45	7	3
1:A:32:LEU:HD23	1:A:76:PHE:CE2	0.49	2.43	9	2
1:A:17:TYR:O	1:A:19:GLY:N	0.49	2.45	14	1
1:A:35:LEU:N	1:A:35:LEU:HD22	0.49	2.22	16	1
1:A:60:LEU:HD22	1:A:76:PHE:CA	0.49	2.38	2	1
1:A:40:LEU:HD11	1:A:77:VAL:HG13	0.49	1.82	3	2
1:B:47:ILE:C	1:B:48:LYS:CG	0.49	2.81	12	3
1:A:8:VAL:HG23	1:A:9:ALA:N	0.49	2.21	5	1
1:A:34:GLU:O	1:A:38:ASN:ND2	0.49	2.46	9	1
1:A:74:MET:CG	1:B:74:MET:HG2	0.49	2.37	12	1
1:A:1:SER:HB3	1:A:4:GLU:CB	0.49	2.37	16	1
1:B:33:LYS:CD	1:B:47:ILE:HD11	0.49	2.37	19	1
1:A:33:LYS:O	1:A:37:ASN:CB	0.49	2.61	20	1
1:A:56:VAL:O	1:A:57:MET:C	0.49	2.51	2	16

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:79:MET:O	1:B:80:VAL:C	0.49	2.50	14	20
1:A:3:LEU:CB	1:B:39:GLU:HG2	0.49	2.37	4	1
1:A:57:MET:CE	1:A:61:ASP:OD1	0.49	2.60	4	2
1:A:52:VAL:O	1:A:56:VAL:HB	0.49	2.07	15	8
1:A:3:LEU:HD21	1:B:73:PHE:CE1	0.49	2.42	7	1
1:B:17:TYR:CG	1:B:35:LEU:HD12	0.49	2.41	8	1
1:A:13:VAL:HG23	1:B:2:GLU:HG3	0.49	1.83	10	1
1:A:32:LEU:HD21	1:A:68:CYS:HB2	0.49	1.84	12	1
1:A:39:GLU:HG3	1:B:3:LEU:HD22	0.49	1.84	12	1
1:A:39:GLU:CD	1:A:40:LEU:CD1	0.49	2.81	16	1
1:A:11:ILE:HG23	1:A:70:PHE:HZ	0.49	1.66	19	2
1:A:14:PHE:HA	1:A:73:PHE:CE2	0.49	2.42	20	1
1:A:36:ILE:CD1	1:A:76:PHE:CG	0.49	2.95	20	1
1:B:36:ILE:HB	1:B:47:ILE:HD11	0.49	1.83	1	1
1:B:32:LEU:CD1	1:B:57:MET:SD	0.49	2.98	11	2
1:B:26:LYS:CE	1:B:67:GLU:HB3	0.49	2.37	7	1
1:A:32:LEU:HB3	1:A:76:PHE:CZ	0.49	2.42	17	2
1:B:39:GLU:CA	1:B:39:GLU:OE1	0.49	2.59	9	1
1:A:6:ALA:CB	1:B:6:ALA:CB	0.49	2.90	10	1
1:A:60:LEU:HD21	1:A:76:PHE:HD1	0.49	1.67	17	1
1:A:77:VAL:HG12	1:B:7:MET:SD	0.49	2.47	19	1
1:B:69:ASP:O	1:B:72:GLU:OE1	0.49	2.30	19	1
1:A:27:LEU:CG	1:A:31:GLU:HB3	0.49	2.38	3	6
1:B:59:THR:CG2	1:B:79:MET:CE	0.49	2.91	2	2
1:A:68:CYS:SG	1:A:69:ASP:N	0.49	2.85	8	9
1:B:52:VAL:HB	1:B:80:VAL:CG1	0.49	2.38	20	13
1:A:14:PHE:CD1	1:A:73:PHE:HB2	0.49	2.42	16	4
1:A:28:LYS:HG3	1:A:29:LYS:N	0.49	2.23	5	2
1:A:36:ILE:N	1:A:36:ILE:HD13	0.49	2.22	8	1
1:A:32:LEU:HD12	1:A:60:LEU:HD13	0.49	1.83	10	1
1:B:60:LEU:HA	1:B:76:PHE:CZ	0.49	2.42	13	1
1:A:40:LEU:HD11	1:A:81:THR:N	0.49	2.22	14	1
1:A:10:LEU:HG	1:A:73:PHE:CZ	0.49	2.43	17	1
1:A:79:MET:O	1:A:80:VAL:C	0.49	2.50	3	18
1:A:52:VAL:HB	1:A:80:VAL:CG1	0.49	2.38	8	11
1:B:32:LEU:CD2	1:B:68:CYS:SG	0.49	2.97	4	4
1:B:17:TYR:CE1	1:B:35:LEU:HG	0.49	2.42	7	2
1:B:32:LEU:HD11	1:B:60:LEU:CD2	0.49	2.38	7	1
1:B:36:ILE:HG12	1:B:76:PHE:CZ	0.49	2.42	14	3
1:B:78:ALA:O	1:B:81:THR:OG1	0.49	2.31	17	2
1:B:36:ILE:HG23	1:B:40:LEU:CB	0.49	2.36	13	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:13:VAL:HG13	1:B:35:LEU:CD1	0.49	2.38	14	1
1:A:49:GLU:C	1:A:50:GLN:CG	0.49	2.81	7	2
1:A:56:VAL:O	1:A:59:THR:N	0.49	2.46	19	3
1:B:53:VAL:C	1:B:56:VAL:HG22	0.49	2.28	3	2
1:A:9:ALA:HB1	1:B:2:GLU:OE1	0.49	2.08	10	1
1:A:50:GLN:N	1:A:50:GLN:CD	0.49	2.66	11	1
1:B:33:LYS:HD2	1:B:47:ILE:CD1	0.49	2.37	19	2
1:A:76:PHE:CD2	1:A:77:VAL:N	0.49	2.81	13	1
1:A:32:LEU:HD21	1:A:60:LEU:HD23	0.49	1.83	17	1
1:A:60:LEU:HD22	1:A:76:PHE:CD2	0.49	2.43	19	1
1:A:82:THR:O	1:A:83:ALA:C	0.49	2.51	8	20
1:A:69:ASP:OD1	1:A:71:GLN:CG	0.49	2.60	2	1
1:B:32:LEU:CD1	1:B:60:LEU:CD2	0.49	2.90	7	1
1:B:39:GLU:HG3	1:B:40:LEU:CD2	0.49	2.35	7	1
1:B:15:HIS:CE1	1:B:24:LYS:HB2	0.49	2.43	9	1
1:B:39:GLU:CD	1:B:77:VAL:CG2	0.49	2.81	11	2
1:A:3:LEU:CD1	1:B:35:LEU:HD12	0.49	2.38	11	1
1:A:62:ASN:ND2	1:A:69:ASP:OD1	0.49	2.46	16	1
1:A:27:LEU:CD2	1:A:31:GLU:HB3	0.48	2.38	5	7
1:A:47:ILE:O	1:A:48:LYS:HG3	0.48	2.08	10	5
1:A:78:ALA:CB	1:B:71:GLN:O	0.48	2.60	2	2
1:B:31:GLU:N	1:B:31:GLU:CD	0.48	2.66	19	4
1:A:10:LEU:HD13	1:A:74:MET:HG3	0.48	1.85	3	1
1:B:26:LYS:CB	1:B:67:GLU:HB2	0.48	2.37	4	3
1:A:28:LYS:O	1:A:29:LYS:C	0.48	2.51	6	6
1:B:48:LYS:CE	1:B:51:GLU:OE2	0.48	2.61	8	1
1:A:13:VAL:CG1	1:B:3:LEU:HD11	0.48	2.36	9	1
1:B:75:ALA:O	1:B:79:MET:HE2	0.48	2.08	10	1
1:A:3:LEU:HD23	1:B:39:GLU:HG3	0.48	1.84	16	1
1:A:40:LEU:CD2	1:B:7:MET:SD	0.48	2.98	16	1
1:B:47:ILE:O	1:B:48:LYS:C	0.48	2.51	17	11
1:A:74:MET:HG2	1:B:74:MET:CG	0.48	2.38	10	4
1:A:32:LEU:CD2	1:A:68:CYS:SG	0.48	2.98	18	2
1:A:10:LEU:HD23	1:B:6:ALA:CB	0.48	2.38	7	1
1:A:74:MET:CE	1:B:78:ALA:HB2	0.48	2.38	7	1
1:A:59:THR:HG21	1:A:79:MET:SD	0.48	2.49	14	3
1:B:72:GLU:HB2	1:B:76:PHE:CE2	0.48	2.43	13	1
1:B:76:PHE:CD1	1:B:80:VAL:HG22	0.48	2.42	20	2
1:B:56:VAL:HG23	1:B:57:MET:H	0.48	1.68	9	4
1:A:17:TYR:CG	1:A:35:LEU:HG	0.48	2.43	5	1
1:A:68:CYS:SG	1:A:76:PHE:CZ	0.48	3.06	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:32:LEU:HD21	1:B:60:LEU:CB	0.48	2.38	5	1
1:A:78:ALA:CA	1:B:74:MET:SD	0.48	3.01	6	2
1:A:35:LEU:HG	1:A:73:PHE:CE1	0.48	2.43	7	1
1:A:39:GLU:CD	1:A:77:VAL:CG1	0.48	2.81	7	2
1:B:17:TYR:CZ	1:B:35:LEU:HG	0.48	2.43	7	1
1:B:24:LYS:CG	1:B:24:LYS:O	0.48	2.61	17	2
1:B:60:LEU:CD2	1:B:76:PHE:CG	0.48	2.95	8	3
1:A:21:GLU:CG	1:A:28:LYS:HD3	0.48	2.38	12	1
1:B:36:ILE:CG2	1:B:40:LEU:HB2	0.48	2.37	20	2
1:A:3:LEU:CD2	1:A:3:LEU:N	0.48	2.75	17	1
1:B:39:GLU:CD	1:B:77:VAL:HG13	0.48	2.28	4	1
1:A:35:LEU:CD2	1:B:3:LEU:CD2	0.48	2.91	5	1
1:A:72:GLU:CB	1:A:76:PHE:CZ	0.48	2.95	5	1
1:B:39:GLU:OE1	1:B:77:VAL:CG2	0.48	2.61	7	1
1:A:60:LEU:CB	1:A:72:GLU:OE2	0.48	2.61	9	1
1:A:13:VAL:HG22	1:A:17:TYR:HE2	0.48	1.68	14	1
1:A:39:GLU:OE1	1:B:3:LEU:CG	0.48	2.61	14	1
1:A:56:VAL:O	1:A:60:LEU:CG	0.48	2.61	15	1
1:A:1:SER:CB	1:A:4:GLU:HB3	0.48	2.38	16	1
1:B:69:ASP:OD1	1:B:69:ASP:N	0.48	2.47	16	1
1:A:33:LYS:HE3	1:A:53:VAL:HG21	0.48	1.84	19	1
1:A:36:ILE:HD13	1:A:76:PHE:CG	0.48	2.44	20	1
1:A:3:LEU:HD12	1:B:10:LEU:HD23	0.48	1.84	5	1
1:A:81:THR:CG2	1:B:7:MET:HE1	0.48	2.38	5	1
1:B:68:CYS:HB3	1:B:76:PHE:CE2	0.48	2.43	6	1
1:B:72:GLU:HB3	1:B:76:PHE:CE1	0.48	2.43	6	1
1:A:29:LYS:HD3	1:A:30:SER:N	0.48	2.22	10	1
1:A:39:GLU:HG2	1:B:3:LEU:CB	0.48	2.37	12	1
1:A:61:ASP:OD1	1:A:61:ASP:N	0.48	2.44	13	1
1:A:3:LEU:HD12	1:B:10:LEU:HD22	0.48	1.85	15	1
1:B:56:VAL:O	1:B:57:MET:C	0.48	2.51	15	19
1:A:1:SER:HB2	1:A:4:GLU:CB	0.48	2.38	2	1
1:A:1:SER:CB	1:A:4:GLU:CB	0.48	2.91	16	2
1:B:11:ILE:HG12	1:B:70:PHE:CZ	0.48	2.44	2	1
1:B:7:MET:O	1:B:11:ILE:HG22	0.48	2.08	5	1
1:B:72:GLU:OE2	1:B:72:GLU:O	0.48	2.32	9	1
1:A:47:ILE:CG2	1:A:50:GLN:HA	0.48	2.38	10	2
1:B:21:GLU:OE1	1:B:21:GLU:CA	0.48	2.60	20	1
1:A:17:TYR:CD2	1:A:35:LEU:HG	0.48	2.43	8	3
1:A:60:LEU:HD11	1:A:76:PHE:CD2	0.48	2.43	2	1
1:A:13:VAL:HG13	1:A:35:LEU:CD2	0.48	2.39	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:81:THR:HG21	1:B:11:ILE:CD1	0.48	2.19	3	1
1:A:36:ILE:HG21	1:A:47:ILE:HG12	0.48	1.86	4	1
1:B:3:LEU:HD12	1:B:3:LEU:H	0.48	1.69	6	1
1:B:56:VAL:HB	1:B:60:LEU:HD11	0.48	1.85	8	6
1:A:35:LEU:HD13	1:B:3:LEU:CD1	0.48	2.38	7	1
1:B:29:LYS:N	1:B:29:LYS:HE3	0.48	2.23	9	1
1:B:39:GLU:CD	1:B:77:VAL:HG21	0.48	2.28	11	1
1:A:60:LEU:HD12	1:A:72:GLU:OE1	0.48	2.08	16	1
1:A:33:LYS:HD3	1:A:47:ILE:CG1	0.48	2.39	19	1
1:A:3:LEU:HD22	1:B:77:VAL:HG21	0.48	1.84	20	1
1:A:59:THR:HG21	1:A:79:MET:HE2	0.48	1.83	2	1
1:B:20:ARG:HD2	1:B:20:ARG:N	0.48	2.24	6	1
1:B:60:LEU:HD22	1:B:76:PHE:HD1	0.48	1.57	6	1
1:A:21:GLU:CG	1:A:28:LYS:HD2	0.48	2.39	12	1
1:A:7:MET:HE1	1:B:40:LEU:HG	0.48	1.84	15	1
1:A:39:GLU:HB3	1:B:3:LEU:CB	0.48	2.39	16	2
1:A:11:ILE:HG23	1:A:70:PHE:CZ	0.48	2.44	19	2
1:B:73:PHE:CZ	1:B:74:MET:SD	0.48	3.06	20	1
1:A:56:VAL:HG23	1:A:57:MET:H	0.48	1.68	1	2
1:A:60:LEU:O	1:A:72:GLU:CB	0.48	2.62	12	2
1:A:29:LYS:CG	1:A:57:MET:HG3	0.48	2.39	2	1
1:B:52:VAL:HG12	1:B:56:VAL:CG1	0.48	2.39	2	1
1:A:36:ILE:HG23	1:A:40:LEU:CB	0.48	2.39	3	1
1:A:3:LEU:HD11	1:B:73:PHE:HZ	0.48	1.61	16	3
1:A:15:HIS:CE1	1:A:25:HIS:NE2	0.48	2.82	7	1
1:A:39:GLU:OE2	1:B:7:MET:CB	0.48	2.62	7	1
1:B:17:TYR:CD1	1:B:35:LEU:HG	0.48	2.44	7	1
1:A:47:ILE:HG23	1:A:53:VAL:CG2	0.48	2.39	8	2
1:A:52:VAL:HG12	1:A:56:VAL:CG1	0.48	2.39	10	1
1:A:36:ILE:HG12	1:A:76:PHE:CZ	0.48	2.44	12	2
1:B:49:GLU:C	1:B:50:GLN:CG	0.48	2.81	12	2
1:A:10:LEU:HD13	1:B:3:LEU:CD2	0.48	2.35	13	1
1:B:72:GLU:HB2	1:B:76:PHE:CZ	0.48	2.44	13	1
1:B:1:SER:CB	1:B:4:GLU:HB3	0.48	2.39	16	1
1:B:1:SER:CB	1:B:4:GLU:HB2	0.48	2.39	1	2
1:B:48:LYS:C	1:B:49:GLU:CG	0.48	2.82	3	1
1:B:73:PHE:HA	1:B:76:PHE:CD2	0.48	2.44	6	2
1:A:49:GLU:O	1:A:50:GLN:CG	0.48	2.61	14	1
1:B:13:VAL:CG2	1:B:73:PHE:CZ	0.48	2.97	15	1
1:A:10:LEU:HG	1:B:3:LEU:HD11	0.48	1.85	17	1
1:A:17:TYR:CE2	1:A:35:LEU:HG	0.48	2.44	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:47:ILE:N	1:A:47:ILE:CD1	0.48	2.67	18	1
1:B:74:MET:O	1:B:78:ALA:HB2	0.48	2.09	19	1
1:A:14:PHE:CG	1:A:73:PHE:CE2	0.48	3.02	20	1
1:A:36:ILE:O	1:A:40:LEU:O	0.47	2.32	6	5
1:A:76:PHE:O	1:A:80:VAL:HG22	0.47	2.08	1	4
1:B:56:VAL:O	1:B:58:GLU:N	0.47	2.46	6	11
1:A:14:PHE:O	1:A:18:SER:OG	0.47	2.32	20	4
1:B:56:VAL:O	1:B:60:LEU:HG	0.47	2.09	4	4
1:B:32:LEU:CD2	1:B:32:LEU:N	0.47	2.76	7	1
1:B:32:LEU:O	1:B:36:ILE:HG13	0.47	2.09	7	2
1:A:11:ILE:N	1:A:11:ILE:HD12	0.47	2.23	9	1
1:A:3:LEU:HD13	1:B:39:GLU:HG3	0.47	1.85	11	1
1:B:35:LEU:O	1:B:39:GLU:N	0.47	2.47	11	1
1:A:39:GLU:HB3	1:B:3:LEU:CD1	0.47	2.38	13	1
1:B:47:ILE:HD13	1:B:47:ILE:N	0.47	2.24	15	1
1:B:60:LEU:HD11	1:B:76:PHE:CD2	0.47	2.44	20	1
1:A:60:LEU:CD2	1:A:76:PHE:HB2	0.47	2.39	10	6
1:B:36:ILE:O	1:B:40:LEU:O	0.47	2.32	19	5
1:B:7:MET:C	1:B:11:ILE:HD12	0.47	2.29	3	1
1:B:32:LEU:CD1	1:B:57:MET:HE1	0.47	2.39	3	1
1:B:52:VAL:O	1:B:56:VAL:HB	0.47	2.10	19	6
1:A:2:GLU:CD	1:B:13:VAL:CG2	0.47	2.83	5	1
1:B:17:TYR:CZ	1:B:39:GLU:OE2	0.47	2.66	8	1
1:B:59:THR:O	1:B:61:ASP:N	0.47	2.47	17	5
1:A:3:LEU:HB3	1:B:39:GLU:CG	0.47	2.39	3	2
1:B:17:TYR:N	1:B:17:TYR:CD1	0.47	2.82	6	1
1:A:56:VAL:CG2	1:A:57:MET:N	0.47	2.77	10	5
1:A:77:VAL:O	1:A:81:THR:CG2	0.47	2.62	8	1
1:A:14:PHE:CE1	1:A:73:PHE:HB2	0.47	2.44	11	3
1:A:23:ASP:N	1:A:23:ASP:OD1	0.47	2.44	9	1
1:B:74:MET:O	1:B:78:ALA:CB	0.47	2.62	9	3
1:B:32:LEU:HD22	1:B:60:LEU:HD22	0.47	1.86	14	1
1:A:52:VAL:HG12	1:A:56:VAL:HB	0.47	1.86	15	1
1:B:59:THR:OG1	1:B:60:LEU:HD23	0.47	2.09	15	1
1:A:14:PHE:CA	1:A:73:PHE:CE2	0.47	2.97	20	1
1:A:25:HIS:ND1	1:A:26:LYS:HE3	0.47	2.24	20	1
1:A:25:HIS:ND1	1:A:26:LYS:CE	0.47	2.77	20	1
1:B:82:THR:O	1:B:83:ALA:C	0.47	2.52	19	20
1:A:2:GLU:CG	1:A:3:LEU:CD2	0.47	2.92	3	1
1:B:15:HIS:CE1	1:B:24:LYS:HG2	0.47	2.45	4	1
1:A:26:LYS:CD	1:A:67:GLU:HB2	0.47	2.39	18	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:LEU:HD12	1:B:10:LEU:CD1	0.47	2.39	6	1
1:B:6:ALA:O	1:B:10:LEU:CG	0.47	2.63	13	1
1:B:13:VAL:HG21	1:B:35:LEU:HD21	0.47	1.86	13	1
1:B:7:MET:O	1:B:11:ILE:CD1	0.47	2.62	15	1
1:A:60:LEU:O	1:A:72:GLU:OE1	0.47	2.33	3	4
1:A:60:LEU:O	1:A:72:GLU:OE2	0.47	2.32	9	2
1:B:19:GLY:CA	1:B:24:LYS:HG2	0.47	2.40	7	1
1:B:60:LEU:CD2	1:B:72:GLU:OE1	0.47	2.57	17	1
1:B:2:GLU:HB3	1:B:3:LEU:HD22	0.47	1.87	19	1
1:A:59:THR:O	1:A:60:LEU:C	0.47	2.53	2	8
1:A:77:VAL:O	1:A:81:THR:OG1	0.47	2.32	10	15
1:A:60:LEU:CD2	1:A:76:PHE:HA	0.47	2.39	2	1
1:A:31:GLU:OE1	1:A:31:GLU:CA	0.47	2.62	5	3
1:A:72:GLU:HB3	1:A:76:PHE:CE1	0.47	2.45	5	1
1:A:39:GLU:HG3	1:B:3:LEU:CB	0.47	2.40	15	3
1:A:47:ILE:HD11	1:A:80:VAL:HG12	0.47	1.86	8	1
1:A:21:GLU:O	1:A:22:GLY:O	0.47	2.33	9	1
1:B:48:LYS:HG2	1:B:49:GLU:N	0.47	2.25	10	1
1:B:34:GLU:CD	1:B:34:GLU:N	0.47	2.66	13	1
1:A:39:GLU:OE2	1:A:40:LEU:CD1	0.47	2.63	16	1
1:A:77:VAL:CG1	1:B:7:MET:SD	0.47	3.03	19	1
1:A:72:GLU:OE1	1:A:72:GLU:O	0.47	2.32	12	3
1:B:1:SER:HB2	1:B:4:GLU:CB	0.47	2.40	9	2
1:B:17:TYR:CG	1:B:35:LEU:CD1	0.47	2.97	1	2
1:A:57:MET:SD	1:A:57:MET:O	0.47	2.73	18	5
1:B:17:TYR:O	1:B:18:SER:C	0.47	2.53	6	2
1:B:27:LEU:O	1:B:66:GLY:O	0.47	2.33	13	4
1:B:56:VAL:CG2	1:B:57:MET:N	0.47	2.78	13	5
1:B:32:LEU:HD11	1:B:57:MET:HE1	0.47	1.86	3	1
1:B:32:LEU:HD12	1:B:57:MET:SD	0.47	2.50	3	1
1:B:12:ASP:O	1:B:16:GLN:HG3	0.47	2.10	12	3
1:A:3:LEU:CD2	1:B:77:VAL:CG2	0.47	2.92	12	1
1:A:17:TYR:CE1	1:A:35:LEU:HG	0.47	2.45	12	1
1:A:68:CYS:SG	1:A:72:GLU:OE2	0.47	2.73	12	1
1:A:72:GLU:CD	1:A:72:GLU:N	0.47	2.66	13	1
1:B:29:LYS:O	1:B:32:LEU:HG	0.47	2.10	13	1
1:A:35:LEU:O	1:A:39:GLU:HG3	0.47	2.09	14	1
1:A:60:LEU:HB3	1:A:72:GLU:CG	0.47	2.39	18	2
1:B:69:ASP:O	1:B:72:GLU:HG3	0.47	2.10	16	2
1:B:36:ILE:HD11	1:B:76:PHE:HE1	0.47	1.66	17	1
1:B:29:LYS:HG2	1:B:30:SER:N	0.47	2.25	13	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:25:HIS:O	1:A:26:LYS:CE	0.47	2.63	4	1
1:B:68:CYS:HB3	1:B:76:PHE:CZ	0.47	2.45	6	1
1:B:73:PHE:CE1	1:B:77:VAL:CG2	0.47	2.98	13	1
1:B:47:ILE:O	1:B:49:GLU:O	0.47	2.32	17	1
1:A:9:ALA:HB1	1:B:2:GLU:CG	0.47	2.39	19	1
1:A:10:LEU:O	1:A:73:PHE:CE2	0.47	2.68	6	4
1:B:32:LEU:O	1:B:33:LYS:C	0.47	2.53	7	15
1:A:18:SER:OG	1:A:24:LYS:CB	0.47	2.62	12	1
1:A:36:ILE:CG2	1:A:53:VAL:HG22	0.47	2.39	16	1
1:B:32:LEU:HD21	1:B:72:GLU:OE2	0.47	2.10	16	1
1:B:71:GLN:O	1:B:74:MET:HE3	0.47	2.10	17	1
1:B:30:SER:O	1:B:34:GLU:OE1	0.47	2.33	8	2
1:A:47:ILE:HD12	1:A:47:ILE:H	0.47	1.70	7	1
1:B:57:MET:O	1:B:61:ASP:OD1	0.47	2.33	15	3
1:B:58:GLU:O	1:B:61:ASP:OD1	0.47	2.33	15	2
1:B:35:LEU:HD21	1:B:73:PHE:HE1	0.47	1.68	15	2
1:B:60:LEU:HD11	1:B:76:PHE:CA	0.47	2.39	14	1
1:A:23:ASP:C	1:A:24:LYS:CG	0.47	2.83	18	1
1:B:62:ASN:OD1	1:B:72:GLU:OE2	0.47	2.33	18	1
1:B:17:TYR:O	1:B:31:GLU:OE1	0.46	2.33	12	3
1:B:21:GLU:O	1:B:22:GLY:O	0.46	2.34	1	3
1:A:3:LEU:HD13	1:B:39:GLU:OE1	0.46	2.10	2	1
1:B:1:SER:HB3	1:B:5:LYS:N	0.46	2.24	3	1
1:B:59:THR:O	1:B:72:GLU:OE1	0.46	2.34	3	2
1:A:30:SER:O	1:A:34:GLU:OE1	0.46	2.34	9	2
1:B:17:TYR:CD2	1:B:35:LEU:HG	0.46	2.45	16	3
1:B:72:GLU:N	1:B:72:GLU:CD	0.46	2.67	13	2
1:B:34:GLU:OE1	1:B:38:ASN:OD1	0.46	2.34	14	1
1:A:33:LYS:CE	1:A:33:LYS:HA	0.46	2.38	19	1
1:A:77:VAL:O	1:A:81:THR:HB	0.46	2.11	8	14
1:A:79:MET:C	1:A:83:ALA:CB	0.46	2.84	2	8
1:B:20:ARG:NE	1:B:20:ARG:HA	0.46	2.25	1	1
1:B:47:ILE:HG22	1:B:48:LYS:N	0.46	2.25	4	2
1:B:56:VAL:HB	1:B:60:LEU:CD1	0.46	2.40	20	8
1:A:31:GLU:N	1:A:31:GLU:CD	0.46	2.68	4	2
1:A:32:LEU:O	1:A:34:GLU:N	0.46	2.49	18	7
1:A:59:THR:O	1:A:72:GLU:OE1	0.46	2.34	6	3
1:A:18:SER:O	1:A:23:ASP:O	0.46	2.33	13	3
1:B:18:SER:OG	1:B:26:LYS:N	0.46	2.48	6	1
1:A:7:MET:SD	1:B:77:VAL:CG1	0.46	3.03	7	1
1:B:60:LEU:CD2	1:B:76:PHE:CB	0.46	2.93	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:LYS:CD	1:A:67:GLU:HB3	0.46	2.40	14	2
1:B:68:CYS:CA	1:B:72:GLU:HG2	0.46	2.40	17	1
1:A:56:VAL:HB	1:A:60:LEU:CD1	0.46	2.40	18	2
1:B:60:LEU:HB3	1:B:72:GLU:CG	0.46	2.41	19	1
1:B:77:VAL:O	1:B:81:THR:OG1	0.46	2.33	8	14
1:B:19:GLY:O	1:B:23:ASP:O	0.46	2.33	2	2
1:A:50:GLN:CB	1:A:54:ASP:HB2	0.46	2.40	14	2
1:A:81:THR:CG2	1:B:7:MET:CE	0.46	2.93	5	1
1:B:39:GLU:OE1	1:B:76:PHE:CE2	0.46	2.68	11	1
1:A:74:MET:SD	1:B:75:ALA:HA	0.46	2.50	20	2
1:A:47:ILE:CG2	1:A:49:GLU:O	0.46	2.63	20	1
1:B:33:LYS:O	1:B:37:ASN:ND2	0.46	2.49	20	1
1:B:22:GLY:O	1:B:23:ASP:O	0.46	2.34	1	2
1:A:82:THR:HG1	1:B:70:PHE:CB	0.46	2.23	2	1
1:A:56:VAL:O	1:A:60:LEU:HG	0.46	2.11	9	10
1:A:10:LEU:HD12	1:B:10:LEU:HD11	0.46	1.87	6	1
1:B:19:GLY:HA2	1:B:31:GLU:CG	0.46	2.40	6	1
1:B:20:ARG:CD	1:B:21:GLU:N	0.46	2.78	6	1
1:B:17:TYR:CG	1:B:35:LEU:HG	0.46	2.46	7	1
1:A:14:PHE:CZ	1:A:69:ASP:C	0.46	2.88	9	2
1:A:47:ILE:CG2	1:A:50:GLN:CA	0.46	2.93	10	1
1:A:3:LEU:CD2	1:B:39:GLU:OE2	0.46	2.57	11	1
1:B:28:LYS:HG3	1:B:29:LYS:N	0.46	2.26	11	2
1:A:74:MET:CG	1:B:74:MET:CG	0.46	2.94	12	1
1:B:13:VAL:O	1:B:17:TYR:CG	0.46	2.69	13	1
1:B:76:PHE:CE1	1:B:80:VAL:HG22	0.46	2.44	20	2
1:A:60:LEU:HD23	1:A:72:GLU:CD	0.46	2.30	17	1
1:B:26:LYS:HB2	1:B:68:CYS:O	0.46	2.11	12	5
1:A:32:LEU:O	1:A:33:LYS:C	0.46	2.54	12	17
1:A:56:VAL:HG23	1:A:79:MET:SD	0.46	2.50	6	1
1:A:58:GLU:O	1:A:61:ASP:OD1	0.46	2.34	17	2
1:A:57:MET:O	1:A:61:ASP:OD1	0.46	2.33	7	1
1:B:50:GLN:O	1:B:54:ASP:CB	0.46	2.64	8	2
1:A:69:ASP:CB	1:A:72:GLU:HG2	0.46	2.41	8	2
1:B:17:TYR:CE2	1:B:35:LEU:HA	0.46	2.46	8	1
1:B:57:MET:O	1:B:57:MET:SD	0.46	2.74	12	4
1:A:38:ASN:O	1:A:39:GLU:OE1	0.46	2.34	13	1
1:A:59:THR:O	1:A:61:ASP:OD1	0.46	2.33	17	1
1:B:60:LEU:CD2	1:B:76:PHE:HB2	0.46	2.41	11	7
1:B:48:LYS:NZ	1:B:51:GLU:HG3	0.46	2.26	3	1
1:A:61:ASP:OD1	1:A:61:ASP:O	0.46	2.33	7	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:LYS:HE3	1:A:37:ASN:ND2	0.46	2.25	16	1
1:A:39:GLU:OE2	1:A:77:VAL:CG2	0.46	2.57	16	1
1:B:31:GLU:O	1:B:34:GLU:HG2	0.46	2.10	18	2
1:B:17:TYR:OH	1:B:39:GLU:OE2	0.46	2.34	5	2
1:B:11:ILE:HG12	1:B:70:PHE:CE2	0.46	2.45	2	1
1:B:32:LEU:HD23	1:B:76:PHE:CD2	0.46	2.45	6	1
1:A:14:PHE:HA	1:A:73:PHE:CZ	0.46	2.46	20	2
1:A:26:LYS:HB3	1:A:68:CYS:O	0.46	2.11	19	5
1:A:58:GLU:HG3	1:A:59:THR:N	0.46	2.26	8	1
1:B:37:ASN:OD1	1:B:37:ASN:N	0.46	2.49	8	1
1:A:60:LEU:HD22	1:A:72:GLU:O	0.46	2.11	10	1
1:B:18:SER:O	1:B:23:ASP:O	0.46	2.33	17	3
1:A:10:LEU:HD12	1:B:6:ALA:CB	0.46	2.41	12	1
1:A:17:TYR:O	1:A:31:GLU:OE1	0.46	2.33	17	2
1:B:56:VAL:C	1:B:60:LEU:HD12	0.46	2.32	13	2
1:A:15:HIS:HA	1:A:18:SER:HG	0.46	1.70	3	1
1:A:14:PHE:CE2	1:A:70:PHE:HA	0.46	2.45	7	1
1:B:35:LEU:O	1:B:39:GLU:OE1	0.46	2.34	8	1
1:A:39:GLU:OE1	1:A:39:GLU:CA	0.46	2.64	10	1
1:A:12:ASP:O	1:A:16:GLN:HB3	0.46	2.11	15	3
1:A:47:ILE:HG13	1:A:53:VAL:CG2	0.46	2.41	15	1
1:A:57:MET:CA	1:A:60:LEU:HD12	0.46	2.37	15	1
1:B:40:LEU:HD23	1:B:40:LEU:N	0.46	2.24	16	1
1:B:49:GLU:CG	1:B:50:GLN:N	0.46	2.79	17	1
1:A:79:MET:CG	1:B:74:MET:HE1	0.46	2.41	19	1
1:A:74:MET:SD	1:A:74:MET:C	0.46	2.94	20	1
1:B:57:MET:O	1:B:61:ASP:OD2	0.46	2.34	3	2
1:B:65:ASP:OD1	1:B:65:ASP:O	0.46	2.34	1	2
1:A:3:LEU:CB	1:B:39:GLU:HB2	0.46	2.41	3	2
1:A:39:GLU:CB	1:B:3:LEU:HB2	0.46	2.39	20	4
1:A:74:MET:O	1:B:74:MET:SD	0.46	2.74	4	3
1:A:4:GLU:O	1:A:7:MET:CG	0.46	2.64	5	1
1:B:35:LEU:HD22	1:B:35:LEU:N	0.46	2.26	5	1
1:A:69:ASP:OD2	1:A:71:GLN:OE1	0.46	2.34	6	1
1:A:32:LEU:HD23	1:A:60:LEU:CD1	0.46	2.21	7	2
1:A:27:LEU:O	1:A:66:GLY:O	0.46	2.33	16	2
1:A:75:ALA:O	1:A:79:MET:HE3	0.46	2.11	11	1
1:B:60:LEU:N	1:B:60:LEU:CD2	0.46	2.73	11	1
1:A:77:VAL:HG21	1:B:3:LEU:HD22	0.46	1.88	12	1
1:B:15:HIS:O	1:B:18:SER:OG	0.46	2.33	14	1
1:B:13:VAL:O	1:B:14:PHE:C	0.46	2.54	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:36:ILE:HG12	1:B:80:VAL:HG21	0.46	1.87	15	1
1:B:72:GLU:HG3	1:B:73:PHE:N	0.46	2.25	16	2
1:A:12:ASP:O	1:A:16:GLN:HG3	0.46	2.10	19	1
1:B:15:HIS:HA	1:B:18:SER:HG	0.46	1.70	19	1
1:A:1:SER:CB	1:A:4:GLU:HB2	0.46	2.41	2	1
1:A:82:THR:CB	1:B:70:PHE:HB3	0.46	2.41	2	1
1:B:60:LEU:O	1:B:72:GLU:OE1	0.46	2.34	15	6
1:B:7:MET:O	1:B:11:ILE:CG2	0.46	2.64	5	1
1:A:40:LEU:HD21	1:A:81:THR:CA	0.46	2.41	6	1
1:A:56:VAL:HG13	1:A:57:MET:N	0.46	2.24	6	2
1:B:7:MET:O	1:B:11:ILE:HG12	0.46	2.11	13	4
1:A:6:ALA:CB	1:B:6:ALA:HA	0.46	2.41	9	5
1:A:35:LEU:HD13	1:B:3:LEU:HD13	0.46	1.88	7	1
1:A:59:THR:O	1:A:61:ASP:N	0.46	2.48	17	2
1:A:56:VAL:HB	1:A:60:LEU:HD11	0.46	1.87	19	3
1:B:7:MET:SD	1:B:11:ILE:HD11	0.46	2.51	10	1
1:A:10:LEU:HD12	1:B:6:ALA:HB1	0.46	1.88	12	1
1:B:57:MET:HE2	1:B:57:MET:HA	0.46	1.87	12	1
1:B:30:SER:O	1:B:34:GLU:OE2	0.46	2.33	13	1
1:A:7:MET:SD	1:B:39:GLU:OE2	0.46	2.74	15	1
1:B:68:CYS:CB	1:B:72:GLU:HG2	0.46	2.40	16	1
1:B:17:TYR:CE2	1:B:34:GLU:HG3	0.46	2.46	18	1
1:B:35:LEU:O	1:B:39:GLU:HB3	0.46	2.11	19	1
1:B:35:LEU:N	1:B:35:LEU:HD22	0.46	2.25	19	1
1:B:10:LEU:HD21	1:B:77:VAL:HG21	0.45	1.89	1	1
1:B:17:TYR:O	1:B:20:ARG:HG2	0.45	2.11	1	2
1:B:32:LEU:CD1	1:B:57:MET:HE3	0.45	2.40	2	3
1:A:3:LEU:HB2	1:B:39:GLU:CB	0.45	2.42	16	4
1:A:74:MET:SD	1:B:74:MET:O	0.45	2.75	2	3
1:A:26:LYS:HD3	1:A:68:CYS:O	0.45	2.12	4	1
1:A:75:ALA:O	1:A:79:MET:SD	0.45	2.74	4	1
1:B:60:LEU:CB	1:B:72:GLU:OE2	0.45	2.64	4	1
1:A:6:ALA:HB1	1:B:10:LEU:HD13	0.45	1.87	7	1
1:B:2:GLU:N	1:B:2:GLU:CD	0.45	2.68	13	2
1:A:3:LEU:CD1	1:B:35:LEU:CD1	0.45	2.94	11	1
1:A:3:LEU:O	1:B:39:GLU:OE1	0.45	2.34	13	1
1:B:36:ILE:HG12	1:B:80:VAL:CG2	0.45	2.41	15	1
1:A:7:MET:SD	1:A:74:MET:CE	0.45	3.04	19	1
1:A:33:LYS:HE3	1:A:53:VAL:CG2	0.45	2.41	19	1
1:B:14:PHE:O	1:B:18:SER:OG	0.45	2.33	1	4
1:A:28:LYS:HG3	1:A:31:GLU:OE1	0.45	2.11	16	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:28:LYS:HG3	1:A:31:GLU:OE2	0.45	2.11	4	2
1:A:2:GLU:CG	1:B:13:VAL:CG2	0.45	2.95	5	1
1:A:27:LEU:HD22	1:A:31:GLU:CB	0.45	2.41	12	2
1:A:6:ALA:CB	1:B:10:LEU:CD1	0.45	2.94	7	1
1:A:74:MET:CE	1:B:78:ALA:HA	0.45	2.42	7	1
1:A:9:ALA:CB	1:B:2:GLU:OE1	0.45	2.64	10	1
1:B:40:LEU:O	1:B:41:SER:HB2	0.45	2.12	11	1
1:A:57:MET:O	1:A:61:ASP:OD2	0.45	2.34	14	1
1:B:33:LYS:CG	1:B:53:VAL:CG1	0.45	2.87	16	1
1:A:15:HIS:CE1	1:A:24:LYS:HD3	0.45	2.47	18	1
1:A:36:ILE:HD13	1:A:76:PHE:CE1	0.45	2.46	20	1
1:A:29:LYS:HG2	1:A:30:SER:N	0.45	2.27	1	4
1:B:12:ASP:O	1:B:16:GLN:HB2	0.45	2.12	11	6
1:A:35:LEU:O	1:A:39:GLU:OE2	0.45	2.33	15	2
1:A:36:ILE:HG12	1:A:80:VAL:HG21	0.45	1.89	15	2
1:A:72:GLU:OE2	1:A:72:GLU:O	0.45	2.33	2	1
1:B:18:SER:O	1:B:24:LYS:HA	0.45	2.11	20	5
1:A:28:LYS:O	1:A:28:LYS:HG3	0.45	2.12	12	4
1:A:59:THR:HG22	1:A:59:THR:O	0.45	2.11	12	3
1:B:67:GLU:OE2	1:B:67:GLU:O	0.45	2.34	7	1
1:A:37:ASN:O	1:A:41:SER:O	0.45	2.34	8	1
1:A:10:LEU:CD2	1:A:74:MET:HG3	0.45	2.41	9	2
1:B:75:ALA:O	1:B:79:MET:SD	0.45	2.74	10	1
1:B:60:LEU:HG	1:B:76:PHE:CG	0.45	2.46	13	1
1:A:74:MET:HG2	1:B:78:ALA:CB	0.45	2.41	20	2
1:A:27:LEU:O	1:A:67:GLU:OE1	0.45	2.34	19	1
1:A:22:GLY:O	1:A:23:ASP:O	0.45	2.34	1	1
1:A:69:ASP:OD1	1:A:71:GLN:HG3	0.45	2.12	2	1
1:A:39:GLU:OE2	1:B:3:LEU:CB	0.45	2.65	4	1
1:B:40:LEU:N	1:B:40:LEU:CD2	0.45	2.79	4	1
1:A:6:ALA:HA	1:B:6:ALA:CB	0.45	2.41	13	5
1:A:35:LEU:HD22	1:A:35:LEU:H	0.45	1.71	6	2
1:A:74:MET:HG3	1:B:78:ALA:CB	0.45	2.40	6	1
1:A:36:ILE:HG13	1:A:80:VAL:HG21	0.45	1.88	7	1
1:B:56:VAL:CG1	1:B:60:LEU:HD13	0.45	2.41	9	1
1:B:57:MET:O	1:B:61:ASP:HB2	0.45	2.11	9	2
1:B:35:LEU:HD12	1:B:77:VAL:HG22	0.45	1.88	15	1
1:B:29:LYS:HG2	1:B:57:MET:CG	0.45	2.41	16	1
1:A:3:LEU:CD1	1:B:10:LEU:HG	0.45	2.42	17	1
1:A:75:ALA:HA	1:B:74:MET:SD	0.45	2.52	17	1
1:A:79:MET:CG	1:B:74:MET:CE	0.45	2.94	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:68:CYS:SG	1:B:72:GLU:OE1	0.45	2.74	19	1
1:B:27:LEU:HD23	1:B:31:GLU:CB	0.45	2.42	1	1
1:B:32:LEU:O	1:B:34:GLU:N	0.45	2.49	14	7
1:A:34:GLU:O	1:A:38:ASN:N	0.45	2.50	9	3
1:B:36:ILE:CG1	1:B:76:PHE:CZ	0.45	2.99	3	1
1:A:10:LEU:HD13	1:A:74:MET:SD	0.45	2.52	6	1
1:B:28:LYS:O	1:B:29:LYS:HB3	0.45	2.12	14	5
1:A:72:GLU:O	1:A:76:PHE:HB2	0.45	2.11	15	3
1:B:4:GLU:O	1:B:7:MET:HG2	0.45	2.11	7	1
1:B:27:LEU:N	1:B:27:LEU:HD12	0.45	2.26	8	1
1:A:64:GLY:O	1:A:65:ASP:CB	0.45	2.63	17	3
1:B:40:LEU:CD1	1:B:80:VAL:HB	0.45	2.42	16	2
1:A:10:LEU:CD1	1:A:73:PHE:CE2	0.45	2.99	16	1
1:B:23:ASP:CB	1:B:26:LYS:HD2	0.45	2.41	19	1
1:A:18:SER:CB	1:A:27:LEU:HD21	0.45	2.40	20	1
1:A:37:ASN:ND2	1:A:37:ASN:N	0.45	2.63	20	1
1:A:47:ILE:O	1:A:48:LYS:C	0.45	2.55	2	10
1:A:47:ILE:HG22	1:A:48:LYS:N	0.45	2.25	2	1
1:B:21:GLU:O	1:B:21:GLU:OE2	0.45	2.34	6	1
1:B:60:LEU:O	1:B:72:GLU:OE2	0.45	2.34	10	1
1:A:17:TYR:CZ	1:A:35:LEU:HG	0.45	2.47	12	1
1:A:7:MET:O	1:A:11:ILE:HG12	0.45	2.12	18	1
1:A:54:ASP:OD1	1:A:54:ASP:O	0.45	2.34	18	1
1:B:18:SER:O	1:B:24:LYS:HB3	0.45	2.12	20	1
1:B:17:TYR:HA	1:B:20:ARG:CG	0.45	2.41	1	3
1:B:37:ASN:O	1:B:39:GLU:N	0.45	2.49	1	2
1:A:81:THR:HG21	1:B:74:MET:HE1	0.45	1.87	2	1
1:B:29:LYS:HG3	1:B:30:SER:N	0.45	2.27	2	1
1:A:68:CYS:SG	1:A:72:GLU:HG2	0.45	2.52	3	1
1:A:26:LYS:CB	1:A:67:GLU:HB2	0.45	2.41	5	2
1:B:23:ASP:O	1:B:24:LYS:CB	0.45	2.64	18	3
1:B:61:ASP:OD1	1:B:61:ASP:O	0.45	2.34	7	3
1:A:35:LEU:O	1:A:39:GLU:HG2	0.45	2.12	16	3
1:A:34:GLU:O	1:A:38:ASN:OD1	0.45	2.34	12	1
1:B:63:ASP:OD2	1:B:69:ASP:OD2	0.45	2.34	12	1
1:B:85:HIS:O	1:B:85:HIS:ND1	0.45	2.50	13	1
1:A:2:GLU:CG	1:B:39:GLU:OE2	0.45	2.65	14	1
1:B:17:TYR:O	1:B:27:LEU:CD2	0.45	2.56	14	2
1:A:2:GLU:OE1	1:B:12:ASP:HB3	0.45	2.12	16	1
1:B:13:VAL:CG1	1:B:35:LEU:HD23	0.45	2.40	20	1
1:A:76:PHE:CZ	1:A:80:VAL:HG21	0.45	2.47	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:60:LEU:HB3	1:A:72:GLU:OE1	0.45	2.11	2	2
1:B:27:LEU:HB3	1:B:31:GLU:CB	0.45	2.42	4	9
1:A:79:MET:HA	1:A:79:MET:CE	0.45	2.42	5	1
1:A:39:GLU:OE2	1:B:7:MET:HB3	0.45	2.12	7	1
1:B:47:ILE:HG22	1:B:50:GLN:N	0.45	2.26	16	2
1:A:81:THR:HG21	1:B:7:MET:CE	0.45	2.41	9	1
1:A:33:LYS:O	1:A:37:ASN:OD1	0.45	2.34	19	2
1:A:39:GLU:O	1:A:40:LEU:C	0.45	2.56	20	2
1:A:10:LEU:CG	1:A:73:PHE:CE2	0.45	3.00	17	1
1:B:17:TYR:CD2	1:B:34:GLU:HG3	0.45	2.47	18	1
1:A:2:GLU:OE2	1:B:12:ASP:OD1	0.45	2.34	19	1
1:A:75:ALA:HB1	1:B:74:MET:SD	0.45	2.52	19	1
1:A:21:GLU:O	1:A:22:GLY:C	0.45	2.55	5	6
1:A:60:LEU:CB	1:A:76:PHE:CE1	0.45	3.00	5	1
1:B:27:LEU:HD22	1:B:31:GLU:CB	0.45	2.37	5	1
1:B:33:LYS:HD3	1:B:47:ILE:HD11	0.45	1.88	6	1
1:A:55:LYS:O	1:A:58:GLU:HG3	0.45	2.12	8	1
1:B:35:LEU:HG	1:B:73:PHE:CE1	0.45	2.47	10	3
1:B:25:HIS:HB3	1:B:26:LYS:CE	0.45	2.41	19	1
1:A:14:PHE:CE2	1:A:73:PHE:CG	0.45	3.05	20	1
1:B:77:VAL:O	1:B:81:THR:HB	0.45	2.12	20	9
1:A:33:LYS:HG2	1:A:47:ILE:CD1	0.45	2.42	4	1
1:A:57:MET:HE2	1:A:61:ASP:CG	0.45	2.32	4	1
1:B:33:LYS:HG2	1:B:53:VAL:CG1	0.45	2.41	6	2
1:A:75:ALA:O	1:A:79:MET:HG3	0.45	2.12	9	3
1:B:35:LEU:O	1:B:39:GLU:HB2	0.45	2.11	12	2
1:B:14:PHE:CD1	1:B:73:PHE:CG	0.45	3.05	10	1
1:A:79:MET:HA	1:B:71:GLN:CG	0.45	2.42	13	1
1:B:12:ASP:O	1:B:16:GLN:HB3	0.45	2.12	19	3
1:B:53:VAL:HA	1:B:56:VAL:CG2	0.45	2.42	18	2
1:A:6:ALA:CB	1:B:10:LEU:HD21	0.45	2.42	15	1
1:B:55:LYS:O	1:B:59:THR:HG23	0.45	2.12	15	1
1:A:64:GLY:O	1:A:65:ASP:OD1	0.45	2.35	18	2
1:A:33:LYS:NZ	1:A:47:ILE:HG12	0.45	2.27	19	1
1:B:27:LEU:CB	1:B:31:GLU:HB2	0.44	2.41	1	1
1:A:35:LEU:HD21	1:A:73:PHE:CZ	0.44	2.47	4	1
1:A:35:LEU:HD23	1:B:3:LEU:CD1	0.44	2.42	4	2
1:B:23:ASP:C	1:B:24:LYS:CG	0.44	2.86	5	1
1:A:3:LEU:O	1:A:7:MET:SD	0.44	2.75	8	1
1:B:13:VAL:HG13	1:B:17:TYR:CE1	0.44	2.45	9	1
1:B:47:ILE:O	1:B:48:LYS:HG2	0.44	2.12	17	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:35:LEU:O	1:A:39:GLU:HB2	0.44	2.12	12	2
1:B:35:LEU:CD2	1:B:73:PHE:CD1	0.44	3.00	14	1
1:A:3:LEU:CD1	1:B:10:LEU:HD13	0.44	2.32	15	1
1:B:32:LEU:O	1:B:35:LEU:CB	0.44	2.65	15	1
1:B:36:ILE:O	1:B:38:ASN:N	0.44	2.51	15	1
1:B:18:SER:CB	1:B:24:LYS:HA	0.44	2.41	20	1
1:A:18:SER:HB2	1:A:26:LYS:N	0.44	2.26	4	4
1:A:57:MET:O	1:A:61:ASP:CB	0.44	2.65	1	1
1:A:12:ASP:O	1:A:16:GLN:HB2	0.44	2.12	3	4
1:A:68:CYS:CA	1:A:72:GLU:HG2	0.44	2.42	17	3
1:B:25:HIS:HB2	1:B:26:LYS:CE	0.44	2.42	2	1
1:B:32:LEU:CD1	1:B:68:CYS:SG	0.44	2.98	11	2
1:B:56:VAL:HG22	1:B:60:LEU:CD2	0.44	2.30	4	1
1:A:2:GLU:HG3	1:B:9:ALA:CB	0.44	2.42	6	1
1:A:60:LEU:CD2	1:A:76:PHE:CB	0.44	2.96	14	2
1:B:26:LYS:HB3	1:B:68:CYS:O	0.44	2.12	15	4
1:B:60:LEU:HD11	1:B:76:PHE:CZ	0.44	2.47	8	2
1:A:60:LEU:HB3	1:A:72:GLU:OE2	0.44	2.12	9	1
1:A:3:LEU:CD2	1:B:10:LEU:HG	0.44	2.42	10	1
1:A:33:LYS:HG3	1:A:37:ASN:ND2	0.44	2.27	11	1
1:A:60:LEU:CB	1:A:72:GLU:OE1	0.44	2.65	12	1
1:B:56:VAL:HB	1:B:60:LEU:CG	0.44	2.42	18	3
1:A:10:LEU:CD1	1:A:74:MET:HE3	0.44	2.43	13	1
1:B:64:GLY:O	1:B:65:ASP:OD1	0.44	2.35	13	1
1:A:61:ASP:CG	1:A:61:ASP:O	0.44	2.56	17	2
1:A:69:ASP:O	1:A:72:GLU:HG3	0.44	2.12	20	3
1:A:3:LEU:HB2	1:B:39:GLU:CG	0.44	2.43	14	6
1:A:32:LEU:CD1	1:A:57:MET:HE3	0.44	2.42	5	2
1:A:62:ASN:ND2	1:A:69:ASP:HB2	0.44	2.26	10	1
1:A:19:GLY:HA2	1:A:24:LYS:CG	0.44	2.42	12	1
1:A:17:TYR:O	1:A:18:SER:C	0.44	2.54	14	1
1:A:37:ASN:O	1:A:38:ASN:C	0.44	2.56	6	3
1:B:32:LEU:HD11	1:B:57:MET:HE3	0.44	1.90	2	1
1:A:27:LEU:HB3	1:A:31:GLU:CB	0.44	2.42	18	10
1:B:26:LYS:HE3	1:B:67:GLU:CB	0.44	2.42	7	1
1:B:32:LEU:O	1:B:36:ILE:CG1	0.44	2.66	7	1
1:B:56:VAL:O	1:B:59:THR:N	0.44	2.51	12	5
1:A:19:GLY:CA	1:A:24:LYS:HE2	0.44	2.43	12	1
1:B:33:LYS:HD3	1:B:53:VAL:CG1	0.44	2.35	12	1
1:A:71:GLN:O	1:A:75:ALA:HB2	0.44	2.13	2	1
1:B:40:LEU:HD11	1:B:77:VAL:CG1	0.44	2.42	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:10:LEU:O	1:B:11:ILE:C	0.44	2.55	12	3
1:A:39:GLU:OE2	1:B:3:LEU:HB3	0.44	2.12	4	1
1:A:26:LYS:CG	1:A:67:GLU:HB2	0.44	2.43	8	3
1:A:81:THR:CG2	1:B:7:MET:SD	0.44	2.98	9	2
1:A:3:LEU:O	1:A:7:MET:HB2	0.44	2.11	20	5
1:A:33:LYS:O	1:A:37:ASN:CG	0.44	2.56	13	3
1:A:3:LEU:CD1	1:B:13:VAL:HG11	0.44	2.42	14	1
1:A:2:GLU:CG	1:B:9:ALA:HB1	0.44	2.43	1	1
1:B:60:LEU:CG	1:B:76:PHE:HB2	0.44	2.43	1	1
1:A:29:LYS:HG2	1:A:57:MET:CG	0.44	2.43	2	1
1:B:47:ILE:O	1:B:49:GLU:N	0.44	2.51	11	3
1:B:1:SER:O	1:B:2:GLU:C	0.44	2.55	3	1
1:B:18:SER:HA	1:B:27:LEU:CD2	0.44	2.43	14	2
1:B:49:GLU:O	1:B:50:GLN:OE1	0.44	2.35	3	1
1:B:3:LEU:O	1:B:7:MET:HB2	0.44	2.13	4	3
1:B:26:LYS:HB2	1:B:67:GLU:HB3	0.44	1.89	4	1
1:B:29:LYS:HG2	1:B:57:MET:SD	0.44	2.53	4	1
1:B:50:GLN:CG	1:B:54:ASP:HB2	0.44	2.42	13	3
1:A:2:GLU:CA	1:A:2:GLU:OE1	0.44	2.65	7	1
1:A:35:LEU:CD1	1:B:3:LEU:HD13	0.44	2.43	7	1
1:A:57:MET:O	1:A:57:MET:SD	0.44	2.74	7	1
1:B:60:LEU:O	1:B:72:GLU:CD	0.44	2.56	8	6
1:A:21:GLU:HG2	1:A:28:LYS:CD	0.44	2.42	12	1
1:B:60:LEU:CG	1:B:76:PHE:CD2	0.44	3.01	13	1
1:B:24:LYS:O	1:B:24:LYS:CD	0.44	2.65	17	1
1:A:37:ASN:O	1:A:39:GLU:N	0.44	2.50	1	1
1:B:57:MET:SD	1:B:61:ASP:OD2	0.44	2.74	2	1
1:A:36:ILE:HG22	1:A:47:ILE:HD11	0.44	1.89	5	1
1:B:18:SER:HB3	1:B:26:LYS:N	0.44	2.28	8	1
1:A:48:LYS:HG3	1:A:49:GLU:N	0.44	2.27	20	2
1:B:35:LEU:HG	1:B:73:PHE:CZ	0.44	2.47	19	2
1:B:30:SER:O	1:B:34:GLU:HG2	0.44	2.13	12	2
1:A:79:MET:SD	1:B:71:GLN:OE1	0.44	2.75	15	1
1:A:71:GLN:O	1:A:74:MET:HG3	0.44	2.12	16	2
1:A:39:GLU:HG3	1:B:4:GLU:N	0.44	2.28	18	1
1:B:48:LYS:O	1:B:49:GLU:HG3	0.44	2.13	19	1
1:B:60:LEU:O	1:B:61:ASP:C	0.44	2.57	19	1
1:B:14:PHE:O	1:B:18:SER:HB3	0.44	2.13	3	3
1:B:48:LYS:O	1:B:49:GLU:HB3	0.44	2.12	18	3
1:B:12:ASP:OD1	1:B:12:ASP:O	0.44	2.36	2	1
1:B:36:ILE:HA	1:B:40:LEU:CD1	0.44	2.43	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:7:MET:HG3	1:B:8:VAL:N	0.44	2.27	7	1
1:B:23:ASP:O	1:B:24:LYS:C	0.44	2.57	8	2
1:B:37:ASN:OD1	1:B:47:ILE:HG12	0.44	2.12	8	1
1:A:9:ALA:CB	1:B:2:GLU:HB3	0.44	2.43	9	2
1:B:60:LEU:HB3	1:B:72:GLU:OE1	0.44	2.13	9	2
1:A:39:GLU:HB2	1:A:40:LEU:CD1	0.44	2.43	10	1
1:B:26:LYS:HD3	1:B:26:LYS:N	0.44	2.27	11	1
1:B:21:GLU:CG	1:B:31:GLU:OE2	0.44	2.65	12	1
1:A:7:MET:SD	1:B:81:THR:HG23	0.44	2.53	13	1
1:B:40:LEU:HD21	1:B:77:VAL:HG13	0.44	1.89	14	1
1:A:51:GLU:O	1:A:55:LYS:HB3	0.44	2.12	15	2
1:A:11:ILE:CG1	1:A:70:PHE:CE1	0.44	3.01	20	1
1:A:34:GLU:O	1:A:38:ASN:HB3	0.44	2.13	20	1
1:A:60:LEU:O	1:A:72:GLU:HB2	0.44	2.12	1	3
1:A:72:GLU:OE1	1:A:72:GLU:C	0.44	2.56	20	2
1:B:34:GLU:O	1:B:35:LEU:C	0.44	2.56	13	9
1:B:35:LEU:HD13	1:B:73:PHE:CE1	0.44	2.48	4	1
1:B:2:GLU:OE1	1:B:2:GLU:CA	0.44	2.66	19	2
1:B:76:PHE:CD1	1:B:76:PHE:N	0.44	2.85	6	1
1:B:16:GLN:O	1:B:20:ARG:HG3	0.44	2.13	12	3
1:A:18:SER:OG	1:A:24:LYS:HA	0.44	2.13	14	2
1:A:21:GLU:HG2	1:A:28:LYS:HD3	0.44	1.90	12	1
1:B:18:SER:HB2	1:B:26:LYS:N	0.44	2.27	16	2
1:B:71:GLN:NE2	1:B:72:GLU:OE2	0.44	2.51	12	1
1:A:19:GLY:O	1:A:23:ASP:O	0.44	2.36	14	1
1:B:77:VAL:HA	1:B:80:VAL:CG2	0.44	2.43	18	1
1:A:74:MET:HB2	1:B:78:ALA:CA	0.43	2.42	1	1
1:B:36:ILE:O	1:B:40:LEU:HB2	0.43	2.13	1	4
1:A:3:LEU:O	1:B:39:GLU:OE2	0.43	2.35	3	1
1:B:18:SER:HA	1:B:27:LEU:HD23	0.43	1.89	3	3
1:B:29:LYS:N	1:B:29:LYS:HD3	0.43	2.27	3	1
1:B:7:MET:HE2	1:B:74:MET:CE	0.43	2.42	4	1
1:A:33:LYS:HD3	1:A:47:ILE:CD1	0.43	2.43	6	1
1:A:36:ILE:HG13	1:A:76:PHE:CE1	0.43	2.48	6	1
1:A:74:MET:HB3	1:B:74:MET:O	0.43	2.14	6	4
1:A:31:GLU:OE1	1:A:31:GLU:HA	0.43	2.13	14	2
1:B:33:LYS:HA	1:B:36:ILE:CD1	0.43	2.43	9	1
1:A:47:ILE:HG22	1:A:50:GLN:H	0.43	1.68	10	1
1:A:15:HIS:O	1:A:16:GLN:C	0.43	2.57	14	1
1:A:74:MET:SD	1:B:78:ALA:CB	0.43	3.06	15	2
1:B:71:GLN:O	1:B:74:MET:HG3	0.43	2.13	17	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:70:PHE:CB	1:B:82:THR:HG21	0.43	2.43	20	1
1:A:26:LYS:N	1:A:26:LYS:HE2	0.43	2.27	1	1
1:A:3:LEU:HD11	1:B:13:VAL:CG1	0.43	2.41	2	1
1:A:17:TYR:HA	1:A:20:ARG:CD	0.43	2.43	19	2
1:A:21:GLU:HG2	1:A:22:GLY:N	0.43	2.28	3	1
1:B:17:TYR:OH	1:B:35:LEU:HG	0.43	2.13	3	1
1:A:10:LEU:HD23	1:A:74:MET:SD	0.43	2.54	9	1
1:A:57:MET:CA	1:A:60:LEU:HG	0.43	2.44	9	1
1:B:71:GLN:CD	1:B:72:GLU:OE2	0.43	2.57	12	1
1:B:18:SER:CB	1:B:26:LYS:O	0.43	2.66	13	1
1:B:50:GLN:CB	1:B:54:ASP:HB2	0.43	2.43	15	2
1:B:36:ILE:O	1:B:40:LEU:C	0.43	2.57	12	2
1:B:38:ASN:O	1:B:39:GLU:OE2	0.43	2.36	2	1
1:B:83:ALA:O	1:B:86:GLU:HG2	0.43	2.12	13	3
1:A:70:PHE:O	1:A:71:GLN:C	0.43	2.56	5	1
1:B:26:LYS:HG3	1:B:67:GLU:CB	0.43	2.43	5	1
1:B:20:ARG:HG2	1:B:31:GLU:OE2	0.43	2.12	8	1
1:A:67:GLU:O	1:A:67:GLU:HG2	0.43	2.12	9	1
1:A:71:GLN:HB3	1:B:79:MET:SD	0.43	2.53	9	2
1:B:62:ASN:HA	1:B:72:GLU:OE2	0.43	2.13	10	1
1:B:33:LYS:HG3	1:B:47:ILE:HD11	0.43	1.88	12	1
1:B:60:LEU:HB3	1:B:68:CYS:SG	0.43	2.53	12	1
1:A:39:GLU:HB3	1:B:3:LEU:CG	0.43	2.43	13	1
1:A:76:PHE:CD1	1:A:80:VAL:CG2	0.43	3.01	20	2
1:B:60:LEU:CD2	1:B:76:PHE:HA	0.43	2.42	16	1
1:A:36:ILE:O	1:A:36:ILE:HG22	0.43	2.12	17	1
1:A:17:TYR:CE2	1:A:35:LEU:HD13	0.43	2.45	20	1
1:B:62:ASN:ND2	1:B:69:ASP:OD1	0.43	2.52	1	1
1:A:14:PHE:O	1:A:18:SER:HB2	0.43	2.13	18	4
1:B:82:THR:O	1:B:85:HIS:N	0.43	2.52	12	9
1:B:17:TYR:OH	1:B:38:ASN:CG	0.43	2.57	18	3
1:A:35:LEU:HD22	1:A:35:LEU:N	0.43	2.28	6	1
1:A:15:HIS:NE2	1:A:24:LYS:O	0.43	2.51	7	1
1:A:19:GLY:O	1:A:20:ARG:C	0.43	2.55	14	3
1:A:73:PHE:CE1	1:B:3:LEU:HD21	0.43	2.49	11	1
1:A:35:LEU:HB2	1:A:76:PHE:CZ	0.43	2.48	16	1
1:A:10:LEU:CD1	1:B:3:LEU:HD13	0.43	2.44	17	1
1:B:36:ILE:CG2	1:B:40:LEU:CB	0.43	2.96	20	1
1:B:49:GLU:O	1:B:50:GLN:HB2	0.43	2.12	13	5
1:B:79:MET:C	1:B:83:ALA:CB	0.43	2.85	18	6
1:A:48:LYS:O	1:A:49:GLU:HB2	0.43	2.13	2	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:18:SER:OG	1:B:24:LYS:C	0.43	2.57	6	2
1:B:28:LYS:O	1:B:28:LYS:HG3	0.43	2.13	2	2
1:A:34:GLU:O	1:A:35:LEU:C	0.43	2.56	15	4
1:A:63:ASP:OD1	1:A:67:GLU:O	0.43	2.37	4	1
1:A:35:LEU:CD2	1:B:3:LEU:HD21	0.43	2.43	5	1
1:B:18:SER:HB3	1:B:25:HIS:N	0.43	2.27	5	1
1:A:50:GLN:O	1:A:54:ASP:HB2	0.43	2.14	12	5
1:A:32:LEU:O	1:A:36:ILE:HG13	0.43	2.13	12	2
1:B:6:ALA:O	1:B:7:MET:C	0.43	2.57	20	2
1:B:61:ASP:OD1	1:B:67:GLU:O	0.43	2.35	11	1
1:B:60:LEU:O	1:B:72:GLU:HG3	0.43	2.13	19	1
1:B:19:GLY:O	1:B:21:GLU:N	0.43	2.52	2	1
1:B:67:GLU:N	1:B:67:GLU:OE1	0.43	2.51	2	1
1:B:17:TYR:CZ	1:B:35:LEU:CG	0.43	3.01	3	1
1:A:3:LEU:HB2	1:B:39:GLU:HG2	0.43	1.91	4	1
1:A:25:HIS:HB3	1:A:26:LYS:CE	0.43	2.44	4	1
1:A:35:LEU:HD22	1:A:73:PHE:CZ	0.43	2.49	4	1
1:B:7:MET:CE	1:B:74:MET:HE1	0.43	2.42	4	1
1:B:14:PHE:HB2	1:B:73:PHE:CD2	0.43	2.49	4	2
1:B:50:GLN:O	1:B:54:ASP:HB2	0.43	2.14	8	6
1:B:52:VAL:O	1:B:56:VAL:CB	0.43	2.67	11	5
1:B:67:GLU:CA	1:B:67:GLU:OE1	0.43	2.65	4	1
1:A:17:TYR:OH	1:A:38:ASN:HB3	0.43	2.13	5	1
1:B:9:ALA:O	1:B:10:LEU:C	0.43	2.57	20	4
1:A:60:LEU:O	1:A:72:GLU:CD	0.43	2.57	7	4
1:A:77:VAL:O	1:A:81:THR:HG22	0.43	2.14	8	1
1:B:21:GLU:O	1:B:22:GLY:C	0.43	2.57	15	3
1:A:11:ILE:HG13	1:A:70:PHE:CZ	0.43	2.49	9	1
1:B:62:ASN:CG	1:B:63:ASP:N	0.43	2.72	10	1
1:A:39:GLU:HG3	1:B:3:LEU:HB3	0.43	1.90	12	1
1:A:18:SER:C	1:A:26:LYS:O	0.43	2.57	14	1
1:A:18:SER:HB2	1:A:25:HIS:N	0.43	2.29	14	1
1:A:49:GLU:O	1:A:50:GLN:HB2	0.43	2.14	15	2
1:B:28:LYS:O	1:B:31:GLU:OE1	0.43	2.37	16	1
1:B:68:CYS:C	1:B:72:GLU:OE1	0.43	2.56	19	1
1:A:17:TYR:OH	1:A:39:GLU:CD	0.43	2.57	1	1
1:B:37:ASN:O	1:B:38:ASN:C	0.43	2.56	1	2
1:B:61:ASP:O	1:B:62:ASN:C	0.43	2.56	1	2
1:A:39:GLU:CG	1:A:40:LEU:HG	0.43	2.44	2	1
1:A:82:THR:O	1:A:85:HIS:N	0.43	2.52	13	8
1:B:15:HIS:O	1:B:16:GLN:C	0.43	2.57	13	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:19:GLY:CA	1:B:24:LYS:HA	0.43	2.44	3	1
1:B:60:LEU:HB2	1:B:72:GLU:OE2	0.43	2.14	4	1
1:A:32:LEU:HD21	1:A:76:PHE:CE2	0.43	2.47	5	1
1:A:60:LEU:HD22	1:A:76:PHE:HD1	0.43	1.67	5	1
1:A:40:LEU:CD2	1:A:80:VAL:HB	0.43	2.43	15	3
1:A:69:ASP:HB2	1:A:72:GLU:HG2	0.43	1.91	8	2
1:A:71:GLN:HG3	1:A:72:GLU:N	0.43	2.29	9	2
1:A:3:LEU:CD2	1:B:10:LEU:CD1	0.43	2.95	11	1
1:B:49:GLU:O	1:B:50:GLN:C	0.43	2.56	16	2
1:B:22:GLY:O	1:B:23:ASP:C	0.43	2.57	13	2
1:A:39:GLU:HB2	1:B:3:LEU:CB	0.43	2.44	19	2
1:A:21:GLU:OE2	1:A:23:ASP:HB2	0.43	2.14	15	1
1:B:17:TYR:OH	1:B:38:ASN:HB2	0.43	2.13	15	1
1:A:2:GLU:OE1	1:B:13:VAL:HG23	0.43	2.14	16	1
1:A:26:LYS:CE	1:A:67:GLU:HB3	0.43	2.44	17	1
1:A:3:LEU:CD2	1:B:35:LEU:HD22	0.43	2.44	18	1
1:B:57:MET:HE2	1:B:61:ASP:OD2	0.43	2.14	18	1
1:A:9:ALA:O	1:A:10:LEU:C	0.43	2.57	1	7
1:A:36:ILE:O	1:A:40:LEU:C	0.43	2.57	16	3
1:B:19:GLY:O	1:B:20:ARG:C	0.43	2.56	2	4
1:A:14:PHE:CE2	1:A:70:PHE:CD2	0.43	3.07	10	2
1:A:17:TYR:OH	1:A:38:ASN:CG	0.43	2.57	7	4
1:B:26:LYS:HA	1:B:68:CYS:O	0.43	2.14	11	5
1:A:15:HIS:CD2	1:A:24:LYS:HD3	0.43	2.49	6	1
1:B:31:GLU:HA	1:B:31:GLU:OE1	0.43	2.13	6	2
1:B:50:GLN:O	1:B:54:ASP:HB3	0.43	2.14	16	3
1:A:39:GLU:CD	1:A:77:VAL:HG11	0.43	2.34	7	1
1:A:34:GLU:N	1:A:34:GLU:OE1	0.43	2.52	8	1
1:B:17:TYR:OH	1:B:38:ASN:HB3	0.43	2.13	8	1
1:A:60:LEU:C	1:A:72:GLU:OE1	0.43	2.57	11	3
1:B:35:LEU:O	1:B:39:GLU:CD	0.43	2.57	10	1
1:B:29:LYS:CE	1:B:57:MET:HG2	0.43	2.43	13	1
1:A:3:LEU:CB	1:B:39:GLU:HB3	0.43	2.43	14	1
1:A:19:GLY:O	1:A:21:GLU:N	0.43	2.51	14	1
1:A:57:MET:SD	1:A:57:MET:C	0.43	2.97	15	1
1:A:83:ALA:O	1:A:86:GLU:OE1	0.43	2.36	17	1
1:B:71:GLN:O	1:B:74:MET:CE	0.43	2.66	17	1
1:A:36:ILE:HD13	1:A:76:PHE:CD1	0.43	2.48	20	1
1:B:48:LYS:CE	1:B:51:GLU:HB2	0.43	2.44	3	1
1:B:72:GLU:O	1:B:76:PHE:HB2	0.43	2.14	3	4
1:A:3:LEU:CG	1:B:39:GLU:HG2	0.43	2.43	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:18:SER:O	1:A:21:GLU:O	0.43	2.37	6	1
1:B:71:GLN:NE2	1:B:72:GLU:HG2	0.43	2.28	6	1
1:B:61:ASP:O	1:B:61:ASP:CG	0.43	2.57	10	3
1:A:2:GLU:HB3	1:B:9:ALA:CB	0.43	2.42	8	1
1:B:2:GLU:C	1:B:2:GLU:OE2	0.43	2.57	8	1
1:A:26:LYS:HG2	1:A:68:CYS:O	0.43	2.14	9	4
1:B:61:ASP:C	1:B:72:GLU:OE2	0.43	2.58	10	1
1:B:21:GLU:HG2	1:B:31:GLU:OE2	0.43	2.13	12	1
1:B:60:LEU:HB2	1:B:68:CYS:SG	0.43	2.53	12	1
1:A:39:GLU:OE1	1:B:3:LEU:HG	0.43	2.13	14	1
1:A:18:SER:O	1:A:21:GLU:HG3	0.43	2.13	15	1
1:B:28:LYS:HG3	1:B:31:GLU:OE1	0.43	2.13	15	1
1:B:48:LYS:HG3	1:B:49:GLU:N	0.43	2.29	15	1
1:A:10:LEU:N	1:A:10:LEU:CD2	0.43	2.82	16	1
1:A:19:GLY:HA2	1:A:24:LYS:CA	0.43	2.44	16	1
1:B:47:ILE:O	1:B:51:GLU:HB2	0.43	2.12	18	1
1:A:57:MET:O	1:A:61:ASP:HB2	0.43	2.14	3	1
1:A:2:GLU:OE1	1:A:2:GLU:C	0.43	2.57	4	1
1:B:34:GLU:O	1:B:38:ASN:HB2	0.43	2.14	18	2
1:B:38:ASN:O	1:B:39:GLU:CD	0.43	2.58	6	1
1:B:33:LYS:CA	1:B:36:ILE:HG13	0.43	2.44	7	1
1:A:60:LEU:HD21	1:A:76:PHE:CA	0.43	2.44	10	2
1:A:73:PHE:HZ	1:B:3:LEU:HD11	0.43	1.74	14	2
1:A:15:HIS:O	1:A:19:GLY:N	0.43	2.51	11	1
1:B:3:LEU:O	1:B:7:MET:CG	0.43	2.67	11	1
1:A:40:LEU:CD1	1:A:81:THR:HA	0.43	2.44	14	1
1:B:35:LEU:CD1	1:B:77:VAL:CG2	0.43	2.94	15	1
1:B:32:LEU:CD2	1:B:72:GLU:OE1	0.43	2.67	16	1
1:B:63:ASP:OD1	1:B:64:GLY:N	0.43	2.52	16	1
1:B:21:GLU:OE1	1:B:26:LYS:O	0.43	2.37	19	1
1:B:38:ASN:C	1:B:38:ASN:ND2	0.43	2.70	19	1
1:B:68:CYS:SG	1:B:68:CYS:O	0.43	2.76	19	1
1:B:72:GLU:CD	1:B:72:GLU:C	0.43	2.77	19	1
1:A:50:GLN:OE1	1:A:54:ASP:CG	0.43	2.57	20	1
1:B:16:GLN:O	1:B:17:TYR:C	0.43	2.57	20	1
1:A:68:CYS:SG	1:A:72:GLU:CD	0.42	2.98	14	2
1:B:64:GLY:O	1:B:65:ASP:HB2	0.42	2.14	2	2
1:A:5:LYS:O	1:A:8:VAL:HG12	0.42	2.14	9	2
1:A:37:ASN:OD1	1:A:47:ILE:HD11	0.42	2.13	4	1
1:A:49:GLU:O	1:A:50:GLN:CD	0.42	2.57	18	2
1:A:68:CYS:HB3	1:A:76:PHE:CZ	0.42	2.49	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:LYS:HG3	1:A:30:SER:N	0.42	2.29	6	1
1:A:40:LEU:HD21	1:A:81:THR:HA	0.42	1.90	6	1
1:B:75:ALA:O	1:B:79:MET:HG3	0.42	2.14	9	3
1:A:34:GLU:OE1	1:A:34:GLU:CA	0.42	2.66	8	2
1:A:75:ALA:O	1:A:79:MET:HG2	0.42	2.13	8	1
1:A:3:LEU:HD22	1:B:39:GLU:CB	0.42	2.44	10	1
1:A:10:LEU:HG	1:B:3:LEU:CD1	0.42	2.43	10	2
1:A:35:LEU:O	1:A:39:GLU:CD	0.42	2.57	11	1
1:B:69:ASP:OD2	1:B:71:GLN:OE1	0.42	2.37	11	1
1:A:72:GLU:CD	1:A:72:GLU:C	0.42	2.78	18	3
1:A:29:LYS:O	1:A:30:SER:C	0.42	2.57	14	1
1:A:73:PHE:O	1:A:76:PHE:HB3	0.42	2.14	14	3
1:A:56:VAL:O	1:A:60:LEU:N	0.42	2.52	15	1
1:A:10:LEU:O	1:A:11:ILE:C	0.42	2.57	19	1
1:A:39:GLU:HB3	1:B:3:LEU:HB2	0.42	1.92	20	1
1:A:72:GLU:HG3	1:A:73:PHE:N	0.42	2.27	20	1
1:B:86:GLU:O	1:B:87:PHE:C	0.42	2.57	2	4
1:B:18:SER:C	1:B:26:LYS:O	0.42	2.57	2	1
1:B:36:ILE:HG21	1:B:47:ILE:HD11	0.42	1.87	16	3
1:B:52:VAL:HG12	1:B:56:VAL:HG13	0.42	1.91	2	1
1:B:17:TYR:O	1:B:31:GLU:CD	0.42	2.58	8	2
1:B:48:LYS:HB2	1:B:51:GLU:CG	0.42	2.45	5	1
1:A:74:MET:HE3	1:B:78:ALA:N	0.42	2.28	7	1
1:B:68:CYS:SG	1:B:72:GLU:CD	0.42	2.97	9	1
1:A:39:GLU:HB2	1:A:40:LEU:HD12	0.42	1.90	10	1
1:A:71:GLN:HA	1:B:78:ALA:CB	0.42	2.44	14	2
1:B:26:LYS:HG3	1:B:68:CYS:O	0.42	2.15	11	1
1:A:40:LEU:N	1:A:40:LEU:CD2	0.42	2.82	12	1
1:B:33:LYS:O	1:B:34:GLU:C	0.42	2.56	12	2
1:B:35:LEU:HD12	1:B:77:VAL:HG21	0.42	1.91	15	1
1:A:62:ASN:HB3	1:A:67:GLU:O	0.42	2.14	16	1
1:B:26:LYS:HB3	1:B:68:CYS:N	0.42	2.28	16	1
1:A:70:PHE:HB3	1:B:82:THR:HG21	0.42	1.91	17	3
1:A:35:LEU:HG	1:A:39:GLU:OE1	0.42	2.13	19	1
1:A:62:ASN:OD1	1:A:69:ASP:OD2	0.42	2.36	20	1
1:B:21:GLU:OE1	1:B:21:GLU:HA	0.42	2.14	20	1
1:B:39:GLU:OE1	1:B:40:LEU:CD1	0.42	2.67	20	1
1:B:60:LEU:HD21	1:B:76:PHE:CA	0.42	2.44	20	1
1:A:36:ILE:O	1:A:40:LEU:HB2	0.42	2.13	1	5
1:A:56:VAL:C	1:A:58:GLU:N	0.42	2.72	18	5
1:A:2:GLU:HG3	1:A:3:LEU:CD2	0.42	2.44	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:28:LYS:O	1:A:29:LYS:HB3	0.42	2.14	20	8
1:B:48:LYS:HE3	1:B:51:GLU:CG	0.42	2.43	3	1
1:B:47:ILE:HD11	1:B:52:VAL:HB	0.42	1.91	4	1
1:A:33:LYS:HD2	1:A:37:ASN:ND2	0.42	2.30	5	1
1:B:70:PHE:O	1:B:71:GLN:C	0.42	2.56	6	1
1:B:40:LEU:C	1:B:41:SER:OG	0.42	2.57	7	1
1:A:60:LEU:O	1:A:61:ASP:C	0.42	2.57	12	2
1:A:61:ASP:O	1:A:62:ASN:C	0.42	2.57	20	2
1:B:56:VAL:O	1:B:60:LEU:N	0.42	2.52	9	1
1:B:35:LEU:O	1:B:39:GLU:HG2	0.42	2.14	10	1
1:B:60:LEU:HG	1:B:76:PHE:CZ	0.42	2.50	13	1
1:B:26:LYS:N	1:B:26:LYS:HD3	0.42	2.29	16	1
1:A:18:SER:OG	1:A:25:HIS:C	0.42	2.57	19	1
1:A:60:LEU:CG	1:A:76:PHE:HB2	0.42	2.44	4	3
1:A:76:PHE:CD1	1:A:80:VAL:HG22	0.42	2.49	2	1
1:B:60:LEU:C	1:B:72:GLU:OE1	0.42	2.57	3	1
1:B:73:PHE:O	1:B:76:PHE:HB3	0.42	2.14	3	1
1:B:37:ASN:HD21	1:B:53:VAL:HG21	0.42	1.74	6	1
1:B:60:LEU:HD13	1:B:76:PHE:CD1	0.42	2.49	6	1
1:A:2:GLU:CD	1:A:2:GLU:N	0.42	2.71	7	2
1:B:33:LYS:HE2	1:B:37:ASN:OD1	0.42	2.14	9	1
1:A:17:TYR:O	1:A:20:ARG:HG2	0.42	2.14	10	3
1:B:13:VAL:O	1:B:17:TYR:CD2	0.42	2.72	10	1
1:A:17:TYR:CD1	1:A:35:LEU:HG	0.42	2.49	12	1
1:A:33:LYS:CA	1:A:36:ILE:HG13	0.42	2.45	12	1
1:A:56:VAL:HG13	1:A:60:LEU:HD13	0.42	1.90	13	1
1:B:1:SER:N	1:B:4:GLU:HB2	0.42	2.30	19	2
1:B:47:ILE:O	1:B:48:LYS:HB2	0.42	2.14	14	1
1:B:36:ILE:O	1:B:37:ASN:C	0.42	2.56	15	1
1:A:79:MET:HE3	1:B:71:GLN:HG2	0.42	1.91	17	1
1:A:33:LYS:HA	1:A:37:ASN:OD1	0.42	2.14	20	1
1:B:47:ILE:CG2	1:B:53:VAL:HG23	0.42	2.44	20	1
1:A:47:ILE:C	1:A:48:LYS:HG2	0.42	2.34	10	2
1:B:29:LYS:O	1:B:30:SER:C	0.42	2.57	9	5
1:A:18:SER:OG	1:A:24:LYS:O	0.42	2.38	4	1
1:A:57:MET:CE	1:A:61:ASP:CG	0.42	2.87	4	1
1:A:84:CYS:O	1:A:85:HIS:C	0.42	2.58	6	1
1:B:20:ARG:HD3	1:B:21:GLU:N	0.42	2.29	6	1
1:B:37:ASN:ND2	1:B:47:ILE:HG12	0.42	2.29	6	1
1:A:71:GLN:CB	1:B:79:MET:SD	0.42	3.06	9	2
1:B:48:LYS:O	1:B:51:GLU:OE1	0.42	2.37	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:36:ILE:CG2	1:A:53:VAL:CG2	0.42	2.83	16	1
1:A:17:TYR:CD2	1:A:35:LEU:HD22	0.42	2.48	20	1
1:A:36:ILE:O	1:A:37:ASN:C	0.42	2.57	20	1
1:A:77:VAL:CG2	1:B:3:LEU:CD2	0.42	2.97	20	1
1:B:33:LYS:HG3	1:B:53:VAL:HG21	0.42	1.90	20	1
1:A:57:MET:O	1:A:61:ASP:HB3	0.42	2.14	1	2
1:A:79:MET:C	1:A:81:THR:N	0.42	2.73	3	8
1:A:86:GLU:O	1:A:87:PHE:C	0.42	2.57	2	4
1:A:17:TYR:HA	1:A:20:ARG:CG	0.42	2.44	2	1
1:A:6:ALA:CB	1:B:10:LEU:HD12	0.42	2.43	4	1
1:A:74:MET:O	1:B:74:MET:HB3	0.42	2.14	5	3
1:A:26:LYS:CG	1:A:67:GLU:HB3	0.42	2.44	6	2
1:A:50:GLN:OE1	1:A:50:GLN:CA	0.42	2.67	6	1
1:A:39:GLU:CB	1:B:3:LEU:HB3	0.42	2.44	16	2
1:B:53:VAL:O	1:B:57:MET:HB2	0.42	2.14	7	2
1:A:3:LEU:HD23	1:A:3:LEU:N	0.42	2.29	8	1
1:B:47:ILE:O	1:B:48:LYS:HB3	0.42	2.14	9	1
1:B:57:MET:SD	1:B:57:MET:C	0.42	2.98	10	1
1:A:39:GLU:HG2	1:A:40:LEU:N	0.42	2.29	11	1
1:A:6:ALA:O	1:A:7:MET:C	0.42	2.57	12	1
1:B:56:VAL:C	1:B:60:LEU:CD1	0.42	2.88	13	1
1:A:21:GLU:OE2	1:A:23:ASP:CB	0.42	2.68	15	1
1:B:56:VAL:CG1	1:B:76:PHE:CE1	0.42	2.98	15	1
1:A:77:VAL:HB	1:B:74:MET:HE2	0.42	1.91	18	1
1:A:4:GLU:N	1:B:39:GLU:HG3	0.42	2.29	20	1
1:B:18:SER:HB2	1:B:25:HIS:N	0.42	2.30	1	2
1:A:26:LYS:HA	1:A:68:CYS:O	0.42	2.15	2	4
1:A:47:ILE:C	1:A:49:GLU:N	0.42	2.72	8	2
1:B:32:LEU:HD11	1:B:57:MET:CE	0.42	2.44	3	1
1:B:17:TYR:HA	1:B:20:ARG:CD	0.42	2.45	4	3
1:A:5:LYS:HA	1:A:8:VAL:HG22	0.42	1.91	5	1
1:A:29:LYS:HG3	1:A:57:MET:SD	0.42	2.54	15	2
1:A:64:GLY:O	1:A:65:ASP:CG	0.42	2.57	6	2
1:A:39:GLU:OE1	1:A:39:GLU:C	0.42	2.57	7	1
1:B:60:LEU:CD1	1:B:76:PHE:HB2	0.42	2.44	18	2
1:A:40:LEU:HD22	1:A:40:LEU:H	0.42	1.72	12	1
1:A:13:VAL:CG2	1:B:3:LEU:HD21	0.42	2.39	15	1
1:B:36:ILE:CD1	1:B:80:VAL:HG21	0.42	2.45	15	1
1:A:70:PHE:CD2	1:B:82:THR:OG1	0.42	2.69	19	1
1:A:36:ILE:O	1:A:38:ASN:N	0.42	2.53	20	1
1:B:85:HIS:O	1:B:86:GLU:C	0.42	2.57	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:3:LEU:HD11	1:B:13:VAL:CG2	0.42	2.41	2	1
1:A:78:ALA:CB	1:B:71:GLN:HA	0.42	2.42	13	2
1:A:25:HIS:O	1:A:26:LYS:CD	0.42	2.68	4	1
1:A:2:GLU:CB	1:B:13:VAL:CG2	0.42	2.98	5	1
1:B:17:TYR:C	1:B:19:GLY:N	0.42	2.73	6	1
1:A:79:MET:CG	1:B:71:GLN:HG2	0.42	2.45	8	1
1:B:59:THR:CG2	1:B:60:LEU:N	0.42	2.83	8	1
1:A:51:GLU:N	1:A:51:GLU:OE1	0.42	2.53	9	1
1:B:38:ASN:OD1	1:B:38:ASN:N	0.42	2.52	11	1
1:A:2:GLU:O	1:A:3:LEU:C	0.42	2.58	13	1
1:A:30:SER:O	1:A:31:GLU:C	0.42	2.58	13	1
1:B:6:ALA:O	1:B:10:LEU:HG	0.42	2.14	13	1
1:A:33:LYS:HG2	1:A:53:VAL:CG2	0.42	2.44	15	1
1:A:74:MET:HB2	1:B:74:MET:CG	0.42	2.44	20	1
1:B:47:ILE:HG23	1:B:53:VAL:HG23	0.42	1.92	20	1
1:B:67:GLU:O	1:B:67:GLU:HG3	0.42	2.14	20	1
1:B:33:LYS:CA	1:B:36:ILE:HG12	0.42	2.44	1	1
1:B:7:MET:O	1:B:11:ILE:HB	0.42	2.15	15	2
1:B:18:SER:OG	1:B:25:HIS:C	0.42	2.57	6	1
1:B:48:LYS:HD2	1:B:48:LYS:N	0.42	2.29	11	1
1:B:57:MET:HE1	1:B:66:GLY:HA2	0.42	1.91	15	1
1:A:3:LEU:HD22	1:A:3:LEU:H	0.42	1.70	16	1
1:A:60:LEU:O	1:A:72:GLU:HG3	0.42	2.15	18	1
1:A:1:SER:N	1:A:4:GLU:HB3	0.42	2.30	20	1
1:A:57:MET:HA	1:A:57:MET:HE2	0.42	1.90	1	1
1:B:32:LEU:HD12	1:B:57:MET:HE3	0.42	1.91	1	1
1:A:78:ALA:HA	1:B:74:MET:CE	0.42	2.44	2	1
1:A:19:GLY:CA	1:A:24:LYS:CG	0.42	2.98	5	1
1:A:2:GLU:HB3	1:B:9:ALA:CA	0.42	2.45	7	1
1:B:23:ASP:O	1:B:24:LYS:HB2	0.42	2.15	19	2
1:A:7:MET:HE3	1:B:40:LEU:HD13	0.42	1.92	8	1
1:A:27:LEU:CD1	1:A:32:LEU:CD2	0.42	2.98	10	1
1:A:32:LEU:CD1	1:A:60:LEU:HD13	0.42	2.45	10	1
1:B:36:ILE:HG23	1:B:40:LEU:CD2	0.42	2.37	15	1
1:A:47:ILE:O	1:A:48:LYS:HG2	0.42	2.14	16	1
1:B:48:LYS:O	1:B:49:GLU:HG2	0.42	2.15	17	1
1:B:12:ASP:O	1:B:12:ASP:OD1	0.42	2.37	19	1
1:B:28:LYS:HG2	1:B:31:GLU:OE2	0.42	2.15	19	1
1:B:72:GLU:CD	1:B:73:PHE:N	0.42	2.72	19	1
1:B:72:GLU:OE2	1:B:73:PHE:HA	0.42	2.15	19	1
1:A:16:GLN:HB3	1:A:17:TYR:CD1	0.42	2.50	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:36:ILE:HG21	1:A:47:ILE:HD13	0.41	1.91	1	1
1:B:2:GLU:OE1	1:B:2:GLU:N	0.41	2.53	3	1
1:B:33:LYS:HG3	1:B:53:VAL:CG1	0.41	2.45	9	3
1:A:25:HIS:HB3	1:A:26:LYS:HE3	0.41	1.92	4	1
1:A:27:LEU:HD23	1:A:31:GLU:CB	0.41	2.45	8	3
1:A:19:GLY:CA	1:A:24:LYS:HG3	0.41	2.44	5	1
1:B:30:SER:O	1:B:31:GLU:C	0.41	2.57	13	3
1:B:20:ARG:N	1:B:20:ARG:CD	0.41	2.80	6	1
1:A:47:ILE:HG21	1:A:53:VAL:CB	0.41	2.43	7	1
1:A:74:MET:HE3	1:B:78:ALA:CA	0.41	2.45	7	1
1:A:28:LYS:C	1:A:32:LEU:HD12	0.41	2.30	15	2
1:A:79:MET:SD	1:B:71:GLN:CD	0.41	2.98	15	2
1:A:26:LYS:HB2	1:A:68:CYS:O	0.41	2.14	10	2
1:A:40:LEU:CD1	1:A:80:VAL:HB	0.41	2.45	11	1
1:A:71:GLN:OE1	1:B:79:MET:SD	0.41	2.78	18	2
1:A:6:ALA:HB1	1:B:10:LEU:CD2	0.41	2.45	15	1
1:B:1:SER:O	1:B:4:GLU:HB2	0.41	2.15	15	1
1:A:53:VAL:O	1:A:56:VAL:HG22	0.41	2.15	16	1
1:A:69:ASP:OD2	1:A:71:GLN:NE2	0.41	2.53	17	1
1:A:75:ALA:HB2	1:B:74:MET:SD	0.41	2.55	17	1
1:B:73:PHE:CD1	1:B:73:PHE:C	0.41	2.91	17	1
1:A:3:LEU:HB3	1:A:7:MET:CE	0.41	2.45	19	1
1:A:35:LEU:O	1:A:36:ILE:C	0.41	2.57	19	1
1:B:27:LEU:HG	1:B:31:GLU:HB3	0.41	1.92	19	1
1:B:40:LEU:CD2	1:B:80:VAL:HB	0.41	2.44	19	1
1:A:32:LEU:HD23	1:A:76:PHE:CD2	0.41	2.50	20	1
1:A:10:LEU:HG	1:B:6:ALA:CB	0.41	2.45	3	1
1:B:62:ASN:HB2	1:B:72:GLU:OE2	0.41	2.16	3	1
1:A:68:CYS:HB3	1:A:76:PHE:CE2	0.41	2.50	5	1
1:A:20:ARG:O	1:A:21:GLU:HG3	0.41	2.15	8	1
1:B:18:SER:OG	1:B:27:LEU:HD12	0.41	2.15	8	1
1:B:47:ILE:N	1:B:47:ILE:CD1	0.41	2.77	8	1
1:A:39:GLU:OE1	1:A:39:GLU:HA	0.41	2.14	10	1
1:A:3:LEU:HD21	1:B:10:LEU:CD2	0.41	2.45	13	1
1:A:10:LEU:HD22	1:B:3:LEU:CD2	0.41	2.45	13	1
1:B:26:LYS:CA	1:B:68:CYS:O	0.41	2.68	13	1
1:B:48:LYS:O	1:B:49:GLU:HB2	0.41	2.15	14	2
1:A:52:VAL:HG12	1:A:56:VAL:CB	0.41	2.45	15	1
1:A:74:MET:HB3	1:B:78:ALA:CB	0.41	2.38	16	1
1:A:49:GLU:O	1:A:50:GLN:OE1	0.41	2.37	18	1
1:A:7:MET:O	1:A:8:VAL:C	0.41	2.57	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:13:VAL:O	1:A:16:GLN:HB3	0.41	2.15	20	1
1:A:14:PHE:O	1:A:18:SER:HB3	0.41	2.14	10	3
1:A:26:LYS:HD3	1:A:67:GLU:CB	0.41	2.45	8	1
1:B:69:ASP:CB	1:B:72:GLU:HG3	0.41	2.45	8	1
1:B:52:VAL:CB	1:B:80:VAL:CG1	0.41	2.99	9	1
1:B:18:SER:HB2	1:B:26:LYS:O	0.41	2.15	16	1
1:B:17:TYR:OH	1:B:38:ASN:ND2	0.41	2.54	18	1
1:A:15:HIS:CD2	1:A:24:LYS:O	0.41	2.73	3	1
1:A:28:LYS:C	1:A:30:SER:N	0.41	2.73	6	1
1:A:2:GLU:HB3	1:B:9:ALA:O	0.41	2.14	7	1
1:A:56:VAL:HG21	1:A:76:PHE:HE1	0.41	1.75	7	1
1:A:79:MET:HA	1:B:71:GLN:HG2	0.41	1.92	8	1
1:B:60:LEU:HD11	1:B:76:PHE:CE2	0.41	2.49	8	1
1:A:3:LEU:CB	1:B:39:GLU:HG3	0.41	2.45	11	1
1:A:35:LEU:HD22	1:A:73:PHE:HE1	0.41	1.76	11	1
1:B:26:LYS:CG	1:B:67:GLU:HB3	0.41	2.44	17	1
1:B:14:PHE:O	1:B:18:SER:HB2	0.41	2.15	18	1
1:B:47:ILE:O	1:B:51:GLU:HB3	0.41	2.15	18	1
1:B:77:VAL:CA	1:B:80:VAL:HG23	0.41	2.43	18	1
1:A:26:LYS:HB3	1:A:68:CYS:N	0.41	2.30	20	1
1:B:1:SER:HB2	1:B:4:GLU:HB2	0.41	1.91	1	1
1:A:32:LEU:HB3	1:A:76:PHE:CD2	0.41	2.51	2	1
1:A:35:LEU:HD22	1:B:3:LEU:CD1	0.41	2.46	2	1
1:A:39:GLU:HG2	1:B:3:LEU:HD12	0.41	1.90	4	1
1:B:79:MET:C	1:B:81:THR:N	0.41	2.73	18	9
1:B:33:LYS:O	1:B:37:ASN:CG	0.41	2.58	6	1
1:B:38:ASN:C	1:B:39:GLU:OE1	0.41	2.58	6	1
1:A:7:MET:CE	1:B:77:VAL:HG12	0.41	2.45	7	1
1:B:33:LYS:HE3	1:B:53:VAL:HG21	0.41	1.91	7	1
1:A:60:LEU:HD11	1:A:76:PHE:CE1	0.41	2.51	9	1
1:B:56:VAL:C	1:B:58:GLU:N	0.41	2.74	18	5
1:B:15:HIS:NE2	1:B:24:LYS:HD3	0.41	2.30	12	1
1:B:76:PHE:O	1:B:77:VAL:C	0.41	2.57	13	1
1:A:17:TYR:C	1:A:19:GLY:N	0.41	2.73	14	1
1:A:37:ASN:C	1:A:38:ASN:OD1	0.41	2.58	14	1
1:A:3:LEU:HD12	1:A:3:LEU:HA	0.41	1.76	15	1
1:A:15:HIS:O	1:A:24:LYS:HB2	0.41	2.16	16	1
1:B:7:MET:HA	1:B:7:MET:CE	0.41	2.45	19	1
1:B:57:MET:C	1:B:57:MET:SD	0.41	2.98	19	1
1:A:68:CYS:HB2	1:A:72:GLU:OE2	0.41	2.15	20	1
1:A:32:LEU:HD22	1:A:72:GLU:OE2	0.41	2.15	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:LEU:HD22	1:A:35:LEU:CD1	0.41	2.45	3	1
1:B:17:TYR:OH	1:B:35:LEU:HB2	0.41	2.16	3	1
1:B:29:LYS:HG3	1:B:57:MET:SD	0.41	2.55	4	1
1:B:32:LEU:HD21	1:B:60:LEU:CD2	0.41	2.42	5	1
1:A:10:LEU:HD11	1:B:10:LEU:CD1	0.41	2.44	6	1
1:A:53:VAL:HA	1:A:56:VAL:CG2	0.41	2.46	7	1
1:A:36:ILE:HD11	1:A:53:VAL:HG13	0.41	1.85	12	1
1:B:34:GLU:OE1	1:B:38:ASN:CG	0.41	2.59	14	1
1:A:17:TYR:CE1	1:A:35:LEU:HD13	0.41	2.50	19	1
1:A:53:VAL:C	1:A:56:VAL:HG22	0.41	2.36	1	1
1:A:7:MET:O	1:A:11:ILE:HG13	0.41	2.16	12	2
1:B:75:ALA:O	1:B:79:MET:HE1	0.41	2.15	4	1
1:A:47:ILE:O	1:A:48:LYS:HB3	0.41	2.15	16	2
1:A:3:LEU:CD2	1:B:10:LEU:HA	0.41	2.46	8	1
1:A:57:MET:HA	1:A:60:LEU:CD1	0.41	2.45	9	1
1:A:60:LEU:HA	1:A:72:GLU:OE1	0.41	2.15	12	1
1:A:2:GLU:HG3	1:B:13:VAL:CG2	0.41	2.46	14	1
1:B:31:GLU:O	1:B:34:GLU:HG3	0.41	2.15	16	1
1:A:71:GLN:HG2	1:B:79:MET:CG	0.41	2.46	17	1
1:A:39:GLU:OE2	1:B:3:LEU:C	0.41	2.59	18	1
1:A:37:ASN:CG	1:A:47:ILE:CG1	0.41	2.89	20	1
1:A:59:THR:O	1:A:59:THR:CG2	0.41	2.68	20	1
1:A:61:ASP:O	1:A:61:ASP:CG	0.41	2.59	6	1
1:A:67:GLU:OE1	1:A:67:GLU:HA	0.41	2.16	6	1
1:B:82:THR:C	1:B:84:CYS:N	0.41	2.74	19	2
1:B:17:TYR:CE1	1:B:39:GLU:OE2	0.41	2.74	8	1
1:B:47:ILE:HG13	1:B:53:VAL:CG2	0.41	2.43	8	1
1:A:37:ASN:O	1:A:41:SER:OG	0.41	2.33	9	1
1:A:85:HIS:O	1:A:85:HIS:CD2	0.41	2.74	11	1
1:A:3:LEU:HD21	1:B:77:VAL:CG2	0.41	2.45	12	1
1:B:18:SER:HB3	1:B:26:LYS:O	0.41	2.15	13	1
1:B:28:LYS:HG3	1:B:31:GLU:OE2	0.41	2.14	14	1
1:B:24:LYS:O	1:B:24:LYS:HD2	0.41	2.15	17	1
1:B:75:ALA:O	1:B:78:ALA:CB	0.41	2.63	18	1
1:A:7:MET:HE1	1:B:40:LEU:CD1	0.41	2.46	19	1
1:B:83:ALA:O	1:B:86:GLU:HG3	0.41	2.16	3	1
1:B:27:LEU:HD13	1:B:35:LEU:HD12	0.41	1.88	4	1
1:B:56:VAL:O	1:B:60:LEU:CD2	0.41	2.69	4	1
1:A:82:THR:C	1:A:84:CYS:N	0.41	2.74	5	1
1:B:56:VAL:HG13	1:B:60:LEU:CD1	0.41	2.46	7	2
1:A:28:LYS:O	1:A:31:GLU:N	0.41	2.54	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:20:ARG:HD3	1:B:20:ARG:C	0.41	2.36	6	1
1:B:68:CYS:SG	1:B:76:PHE:CE2	0.41	3.14	6	1
1:B:26:LYS:CE	1:B:67:GLU:CB	0.41	2.99	7	1
1:B:60:LEU:O	1:B:62:ASN:N	0.41	2.53	7	1
1:B:67:GLU:O	1:B:67:GLU:CD	0.41	2.59	7	1
1:B:15:HIS:ND1	1:B:24:LYS:HB2	0.41	2.30	9	1
1:A:60:LEU:HB3	1:A:68:CYS:SG	0.41	2.56	10	1
1:A:51:GLU:C	1:A:51:GLU:OE1	0.41	2.59	11	1
1:B:28:LYS:C	1:B:30:SER:N	0.41	2.73	11	2
1:B:35:LEU:O	1:B:36:ILE:C	0.41	2.58	11	1
1:A:19:GLY:HA2	1:A:24:LYS:HG2	0.41	1.93	12	1
1:A:74:MET:HG2	1:B:74:MET:HG3	0.41	1.93	12	1
1:A:48:LYS:O	1:A:49:GLU:HB3	0.41	2.16	14	1
1:B:28:LYS:CG	1:B:31:GLU:OE1	0.41	2.69	15	1
1:A:11:ILE:HG12	1:A:70:PHE:CE1	0.41	2.50	19	2
1:A:32:LEU:HD22	1:A:76:PHE:HE2	0.41	1.66	19	1
1:B:20:ARG:NE	1:B:20:ARG:CA	0.41	2.85	1	1
1:A:9:ALA:HB1	1:B:2:GLU:O	0.41	2.16	3	1
1:B:39:GLU:HG3	1:B:77:VAL:CG1	0.41	2.45	10	1
1:A:49:GLU:O	1:A:50:GLN:HG2	0.41	2.16	11	1
1:B:10:LEU:HB3	1:B:74:MET:CE	0.41	2.46	12	1
1:A:74:MET:HE2	1:B:74:MET:SD	0.41	2.56	13	1
1:B:26:LYS:HE3	1:B:26:LYS:N	0.41	2.31	13	1
1:B:52:VAL:CG1	1:B:80:VAL:HA	0.41	2.41	13	1
1:A:39:GLU:OE1	1:B:3:LEU:HB3	0.41	2.15	14	1
1:A:74:MET:HG2	1:B:74:MET:O	0.41	2.16	14	1
1:A:75:ALA:O	1:A:79:MET:HE2	0.41	2.16	14	1
1:A:13:VAL:CG2	1:B:2:GLU:HG3	0.41	2.46	15	1
1:A:19:GLY:HA2	1:A:24:LYS:CB	0.41	2.46	17	1
1:A:79:MET:CE	1:A:83:ALA:HB2	0.41	2.44	17	1
1:B:28:LYS:O	1:B:31:GLU:N	0.41	2.54	17	1
1:A:69:ASP:O	1:A:72:GLU:HB3	0.41	2.15	18	1
1:A:33:LYS:O	1:A:37:ASN:HB2	0.41	2.15	20	1
1:B:13:VAL:HG13	1:B:17:TYR:CD2	0.41	2.51	20	1
1:A:2:GLU:O	1:B:9:ALA:HB1	0.40	2.16	3	1
1:B:40:LEU:CD2	1:B:80:VAL:C	0.40	2.90	3	1
1:B:19:GLY:CA	1:B:24:LYS:HG3	0.40	2.46	4	1
1:A:7:MET:O	1:A:11:ILE:HB	0.40	2.16	5	1
1:A:8:VAL:CG2	1:A:9:ALA:N	0.40	2.84	5	1
1:A:39:GLU:CD	1:B:3:LEU:HB3	0.40	2.37	6	1
1:A:3:LEU:HD13	1:B:39:GLU:CB	0.40	2.45	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:TYR:CG	1:A:35:LEU:CD2	0.40	3.02	9	1
1:B:18:SER:OG	1:B:25:HIS:CA	0.40	2.69	10	1
1:B:69:ASP:O	1:B:73:PHE:N	0.40	2.54	10	1
1:A:22:GLY:O	1:A:23:ASP:HB3	0.40	2.16	13	2
1:A:77:VAL:CG1	1:B:74:MET:SD	0.40	3.09	13	1
1:A:3:LEU:HG	1:B:39:GLU:CG	0.40	2.45	15	1
1:A:18:SER:O	1:A:21:GLU:CG	0.40	2.69	15	1
1:A:50:GLN:HA	1:A:53:VAL:CG1	0.40	2.45	17	1
1:A:26:LYS:HG3	1:A:67:GLU:OE1	0.40	2.16	19	1
1:A:68:CYS:SG	1:A:73:PHE:CD1	0.40	3.15	20	1
1:B:10:LEU:HD13	1:B:10:LEU:HA	0.40	1.74	20	1
1:B:10:LEU:HB3	1:B:73:PHE:CE2	0.40	2.51	1	2
1:A:76:PHE:CD1	1:A:76:PHE:N	0.40	2.88	5	1
1:A:13:VAL:HG21	1:B:3:LEU:HD12	0.40	1.91	9	1
1:A:51:GLU:O	1:A:55:LYS:HB2	0.40	2.16	9	1
1:B:31:GLU:O	1:B:34:GLU:HB2	0.40	2.16	9	2
1:A:23:ASP:OD2	1:A:26:LYS:HD3	0.40	2.16	11	1
1:A:71:GLN:CD	1:B:79:MET:SD	0.40	3.00	13	1
1:A:39:GLU:OE2	1:A:40:LEU:HD11	0.40	2.16	16	1
1:A:29:LYS:HG2	1:A:57:MET:HG2	0.40	1.93	2	1
1:A:17:TYR:CG	1:A:35:LEU:HD11	0.40	2.51	4	1
1:A:4:GLU:O	1:A:7:MET:HG3	0.40	2.16	5	1
1:B:49:GLU:HG3	1:B:50:GLN:N	0.40	2.31	7	1
1:B:60:LEU:CD2	1:B:72:GLU:O	0.40	2.69	8	1
1:B:23:ASP:O	1:B:24:LYS:HB3	0.40	2.16	9	1
1:B:72:GLU:OE2	1:B:76:PHE:HB2	0.40	2.15	9	1
1:B:57:MET:HA	1:B:60:LEU:HD12	0.40	1.94	10	1
1:A:10:LEU:CD2	1:A:10:LEU:N	0.40	2.85	13	1
1:A:67:GLU:OE2	1:A:67:GLU:N	0.40	2.54	13	1
1:A:84:CYS:O	1:A:87:PHE:CB	0.40	2.70	13	1
1:B:86:GLU:HG3	1:B:87:PHE:N	0.40	2.31	13	1
1:A:56:VAL:HB	1:A:60:LEU:CD2	0.40	2.39	16	1
1:B:28:LYS:HB3	1:B:31:GLU:OE1	0.40	2.17	16	1
1:A:19:GLY:HA2	1:A:23:ASP:O	0.40	2.17	17	1
1:A:10:LEU:CD2	1:B:3:LEU:HD12	0.40	2.46	1	1
1:A:27:LEU:HB2	1:A:68:CYS:SG	0.40	2.56	1	1
1:B:49:GLU:O	1:B:49:GLU:HG3	0.40	2.16	6	1
1:A:2:GLU:HG2	1:B:9:ALA:CB	0.40	2.47	15	1
1:B:58:GLU:C	1:B:61:ASP:OD1	0.40	2.60	15	1
1:A:74:MET:CG	1:B:75:ALA:HA	0.40	2.46	16	1
1:A:50:GLN:O	1:A:50:GLN:CG	0.40	2.69	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:27:LEU:HB2	1:A:68:CYS:HB3	0.40	1.93	2	1
1:B:71:GLN:HG3	1:B:72:GLU:N	0.40	2.31	4	1
1:A:29:LYS:HG2	1:A:57:MET:SD	0.40	2.56	5	1
1:B:13:VAL:HG22	1:B:17:TYR:CE1	0.40	2.52	6	1
1:B:20:ARG:CD	1:B:20:ARG:C	0.40	2.89	6	1
1:B:70:PHE:C	1:B:72:GLU:N	0.40	2.75	6	1
1:A:3:LEU:O	1:A:7:MET:N	0.40	2.55	8	1
1:A:37:ASN:O	1:A:41:SER:HB2	0.40	2.16	10	1
1:A:21:GLU:HG3	1:A:28:LYS:HD2	0.40	1.93	12	1
1:A:49:GLU:HG3	1:A:50:GLN:N	0.40	2.30	12	1
1:A:56:VAL:C	1:A:60:LEU:HD12	0.40	2.37	13	1
1:B:13:VAL:O	1:B:17:TYR:HB2	0.40	2.17	13	1
1:B:28:LYS:N	1:B:31:GLU:HB2	0.40	2.31	13	1
1:B:26:LYS:HG2	1:B:68:CYS:O	0.40	2.16	14	1
1:A:35:LEU:HA	1:A:39:GLU:OE2	0.40	2.16	15	1
1:B:36:ILE:HG12	1:B:80:VAL:CB	0.40	2.47	15	1
1:B:1:SER:O	1:B:5:LYS:HB2	0.40	2.17	16	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	81/91 (89%)	58±3 (71±4%)	17±3 (22±3%)	6±2 (7±2%)	2	16
1	B	81/91 (89%)	55±4 (68±4%)	20±3 (25±4%)	6±1 (7±2%)	2	16
All	All	3240/3640 (89%)	2257 (70%)	749 (23%)	234 (7%)	2	16

All 39 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	65	ASP	20
1	B	65	ASP	20
1	A	29	LYS	16
1	B	29	LYS	13

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Mol	Chain	Res	Type	Models (Total)
1	B	47	ILE	12
1	A	25	HIS	11
1	B	25	HIS	11
1	A	47	ILE	10
1	A	49	GLU	10
1	B	49	GLU	10
1	B	24	LYS	7
1	B	50	GLN	7
1	A	50	GLN	6
1	B	22	GLY	6
1	B	23	ASP	6
1	A	24	LYS	6
1	A	48	LYS	6
1	A	41	SER	6
1	A	23	ASP	5
1	A	22	GLY	4
1	B	61	ASP	4
1	A	83	ALA	4
1	B	83	ALA	4
1	B	80	VAL	3
1	B	2	GLU	3
1	B	41	SER	3
1	A	61	ASP	3
1	A	63	ASP	3
1	A	80	VAL	2
1	B	63	ASP	2
1	B	18	SER	2
1	A	64	GLY	2
1	B	64	GLY	1
1	A	40	LEU	1
1	A	2	GLU	1
1	A	18	SER	1
1	A	33	LYS	1
1	B	60	LEU	1
1	A	57	MET	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	73/82 (89%)	49±3 (68±4%)	24±3 (32±4%)	1	12
1	B	73/82 (89%)	48±4 (65±5%)	26±4 (35±5%)	1	9
All	All	2920/3280 (89%)	1936 (66%)	984 (34%)	1	11

All 135 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	B	80	VAL	20
1	A	34	GLU	19
1	A	80	VAL	19
1	B	70	PHE	19
1	A	70	PHE	18
1	B	5	LYS	16
1	B	34	GLU	16
1	B	50	GLN	15
1	B	26	LYS	15
1	A	5	LYS	14
1	A	26	LYS	14
1	B	1	SER	14
1	B	28	LYS	14
1	B	33	LYS	14
1	A	65	ASP	13
1	B	57	MET	13
1	B	69	ASP	13
1	B	76	PHE	13
1	A	28	LYS	13
1	A	24	LYS	12
1	B	74	MET	12
1	A	69	ASP	12
1	A	76	PHE	12
1	A	1	SER	11
1	A	2	GLU	11
1	A	55	LYS	11
1	A	74	MET	11
1	B	21	GLU	11
1	B	29	LYS	11
1	B	85	HIS	11
1	B	65	ASP	11
1	A	48	LYS	11
1	A	10	LEU	10
1	A	87	PHE	10

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Mol	Chain	Res	Type	Models (Total)
1	A	41	SER	10
1	A	63	ASP	10
1	B	51	GLU	10
1	B	48	LYS	10
1	A	54	ASP	9
1	A	57	MET	9
1	B	10	LEU	9
1	B	25	HIS	9
1	A	29	LYS	9
1	A	33	LYS	9
1	A	58	GLU	9
1	B	13	VAL	9
1	B	55	LYS	9
1	B	41	SER	9
1	B	2	GLU	9
1	A	86	GLU	8
1	B	24	LYS	8
1	B	31	GLU	8
1	B	72	GLU	8
1	B	87	PHE	8
1	A	51	GLU	8
1	A	35	LEU	7
1	A	72	GLU	7
1	B	12	ASP	7
1	B	58	GLU	7
1	B	86	GLU	7
1	A	4	GLU	7
1	A	38	ASN	7
1	B	16	GLN	7
1	B	49	GLU	7
1	A	15	HIS	7
1	A	61	ASP	7
1	A	21	GLU	7
1	B	63	ASP	7
1	A	79	MET	7
1	B	71	GLN	7
1	A	13	VAL	6
1	A	23	ASP	6
1	A	31	GLU	6
1	A	85	HIS	6
1	B	20	ARG	6
1	B	30	SER	6

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Mol	Chain	Res	Type	Models (Total)
1	B	38	ASN	6
1	A	12	ASP	6
1	A	68	CYS	6
1	B	7	MET	6
1	B	4	GLU	6
1	B	23	ASP	6
1	B	35	LEU	6
1	B	40	LEU	6
1	B	62	ASN	6
1	A	25	HIS	5
1	A	20	ARG	5
1	A	30	SER	5
1	A	49	GLU	5
1	A	39	GLU	5
1	B	37	ASN	5
1	A	60	LEU	5
1	B	39	GLU	5
1	A	71	GLN	5
1	B	11	ILE	4
1	B	60	LEU	4
1	B	67	GLU	4
1	A	50	GLN	4
1	B	36	ILE	4
1	A	11	ILE	4
1	B	15	HIS	4
1	A	7	MET	4
1	B	68	CYS	4
1	B	54	ASP	4
1	B	84	CYS	3
1	A	62	ASN	3
1	B	56	VAL	3
1	B	79	MET	3
1	A	36	ILE	3
1	B	18	SER	3
1	A	56	VAL	3
1	A	52	VAL	3
1	A	16	GLN	2
1	B	3	LEU	2
1	A	40	LEU	2
1	A	3	LEU	2
1	A	67	GLU	2
1	B	61	ASP	2

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Mol	Chain	Res	Type	Models (Total)
1	A	32	LEU	2
1	A	47	ILE	2
1	B	82	THR	2
1	A	18	SER	2
1	A	37	ASN	2
1	B	17	TYR	1
1	B	27	LEU	1
1	A	53	VAL	1
1	B	32	LEU	1
1	A	84	CYS	1
1	B	47	ILE	1
1	B	59	THR	1
1	B	81	THR	1
1	A	14	PHE	1
1	A	17	TYR	1
1	A	73	PHE	1
1	B	73	PHE	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided