



Full wwPDB NMR Structure Validation Report ⓘ

Mar 8, 2026 – 10:03 PM UTC

PDB ID : 1XDX / pdb_00001xdx
Title : Solution Structure of the Tctex1 Light Chain From Chlamydomonas Inner Dynein Arm I1
Authors : Wu, H.; Maciejewski, M.W.; Takebe, S.; King, S.M.
Deposited on : 2004-09-08

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

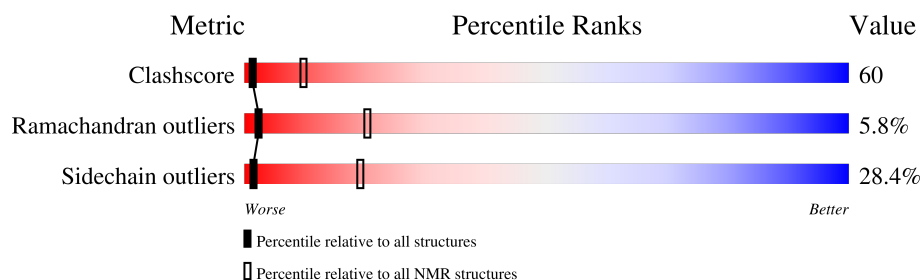
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment was not calculated.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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

Mol	Chain	Length	Quality of chain
1	A	114	29% 60% 9% .
1	B	114	30% 59% 9% .

2 Ensemble composition and analysis

This entry contains 15 models. Model 13 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:4-A:114, B:4-B:114 (222)	1.02	13

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

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

The models can be grouped into 2 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 5, 6, 7, 8, 9, 10, 12, 13, 15
2	4, 11, 14

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 3502 atoms, of which 1734 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Tctex1 Light Chain protein.

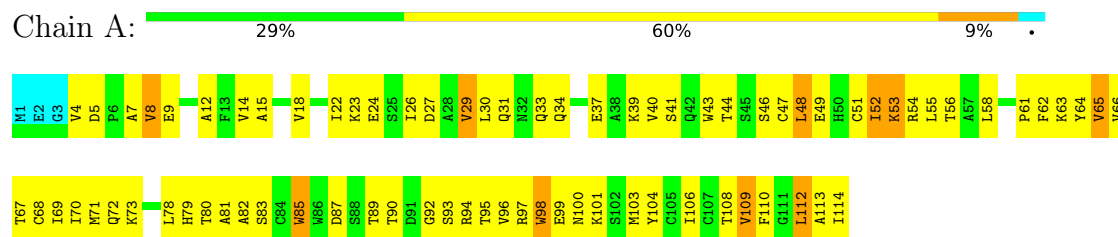
Mol	Chain	Residues	Atoms						Trace
1	A	114	Total	C	H	N	O	S	0
			1751	556	867	148	171	9	
1	B	114	Total	C	H	N	O	S	0
			1751	556	867	148	171	9	

4 Residue-property plots

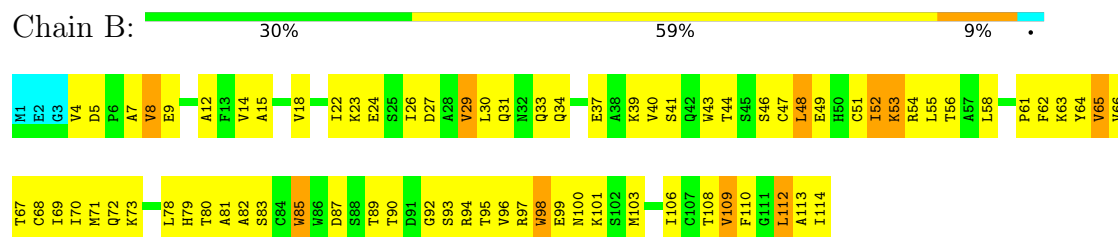
4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Tctex1 Light Chain protein



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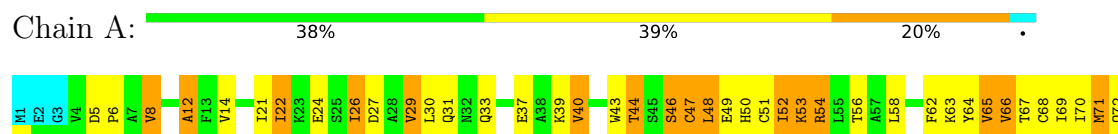


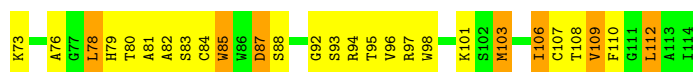
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

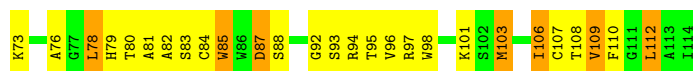
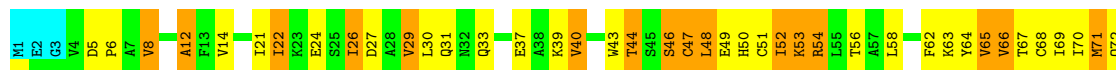
- Molecule 1: Tctex1 Light Chain protein





- Molecule 1: Tctex1 Light Chain protein

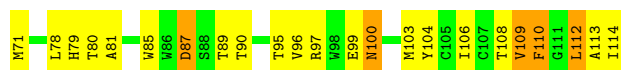
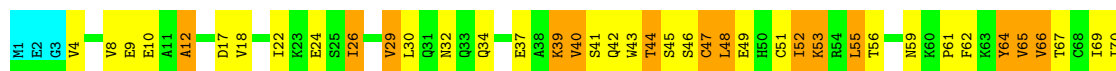
Chain B: 38% 39% 20% .



4.2.2 Score per residue for model 2

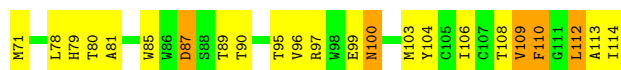
- Molecule 1: Tctex1 Light Chain protein

Chain A: 42% 39% 17% .



- Molecule 1: Tctex1 Light Chain protein

Chain B: 42% 39% 17% .



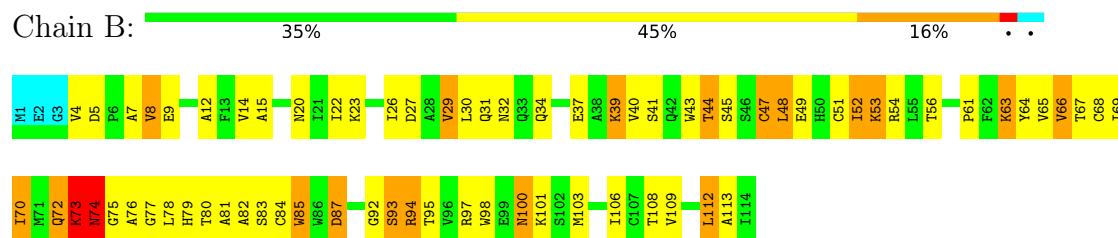
4.2.3 Score per residue for model 3

- Molecule 1: Tctex1 Light Chain protein

Chain A: 33% 44% 18% . .

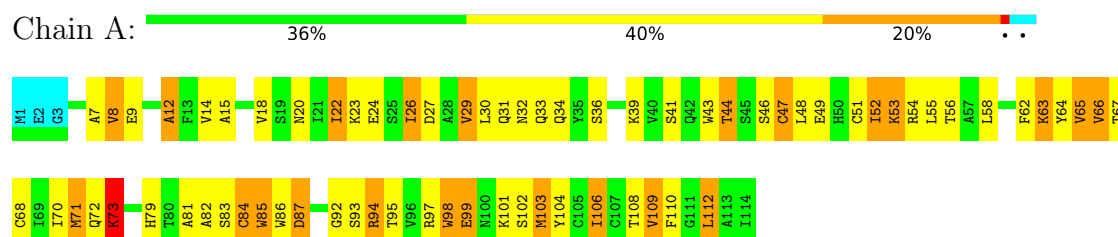


- Molecule 1: Tctex1 Light Chain protein

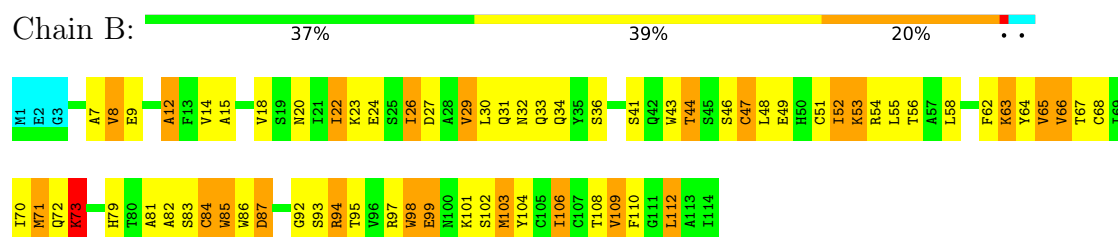


4.2.4 Score per residue for model 4

- Molecule 1: Tctex1 Light Chain protein

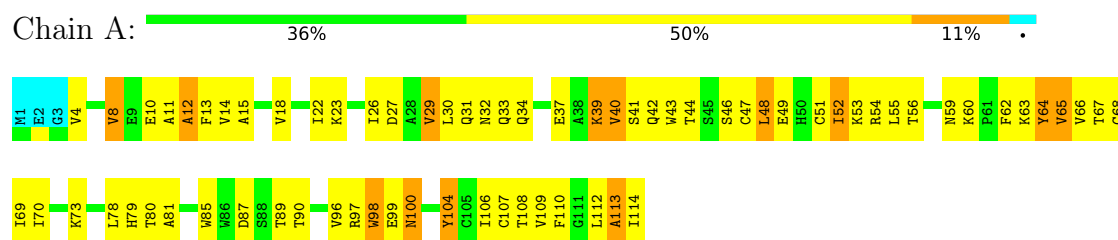


- Molecule 1: Tctex1 Light Chain protein

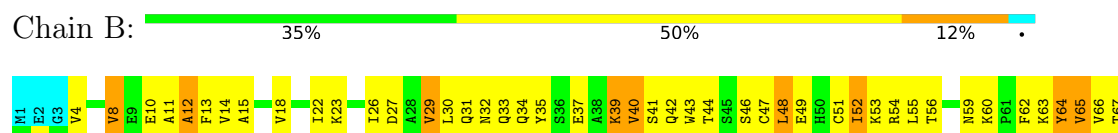


4.2.5 Score per residue for model 5

- Molecule 1: Tctex1 Light Chain protein



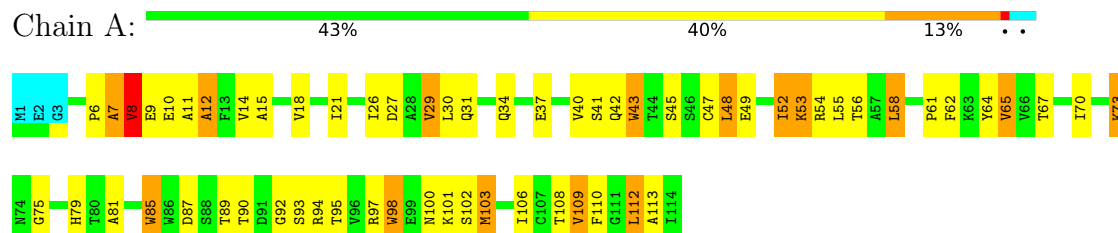
- Molecule 1: Tctex1 Light Chain protein



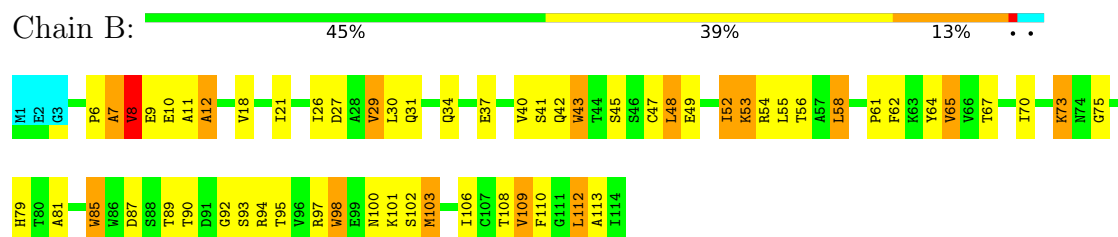


4.2.6 Score per residue for model 6

- Molecule 1: Tctex1 Light Chain protein

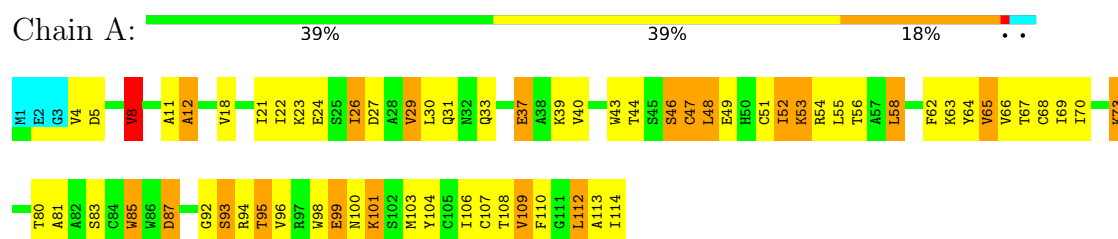


- Molecule 1: Tctex1 Light Chain protein

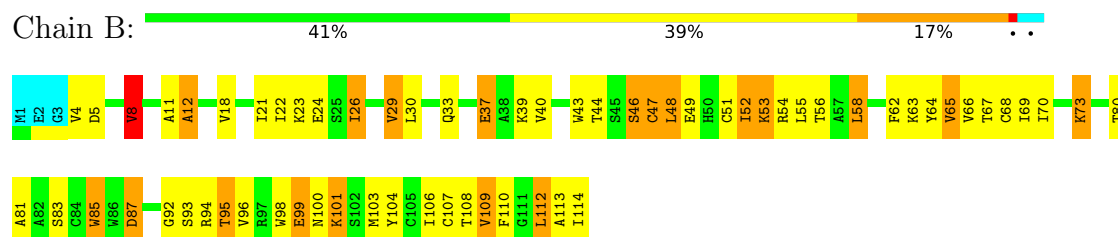


4.2.7 Score per residue for model 7

- Molecule 1: Tctex1 Light Chain protein

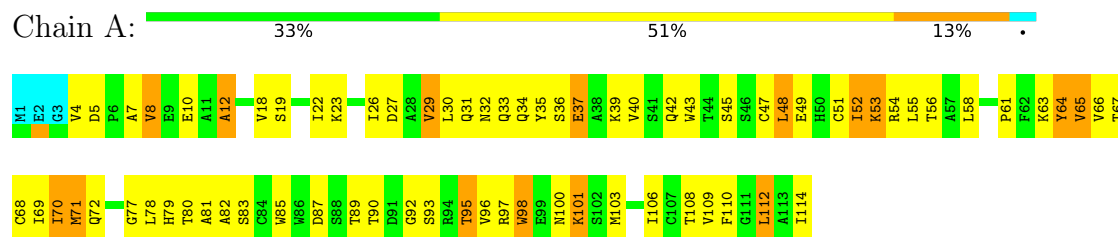


- Molecule 1: Tctex1 Light Chain protein

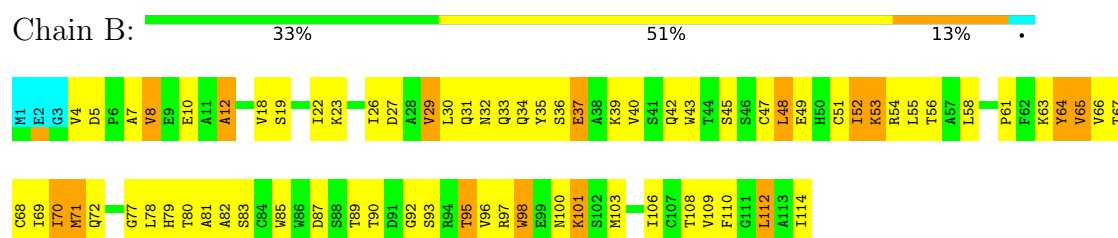


4.2.8 Score per residue for model 8

- Molecule 1: Tctex1 Light Chain protein



- Molecule 1: Tctex1 Light Chain protein

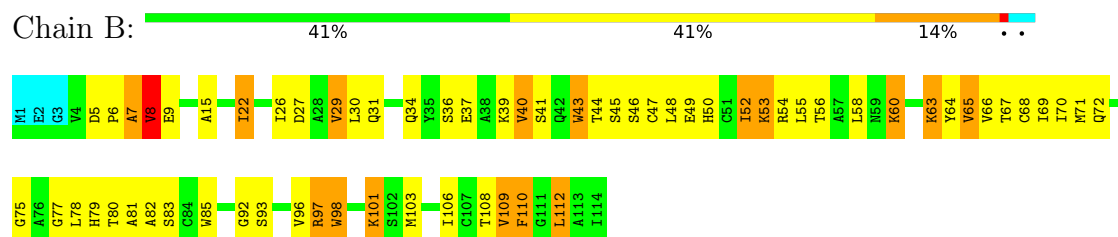


4.2.9 Score per residue for model 9

- Molecule 1: Tctex1 Light Chain protein

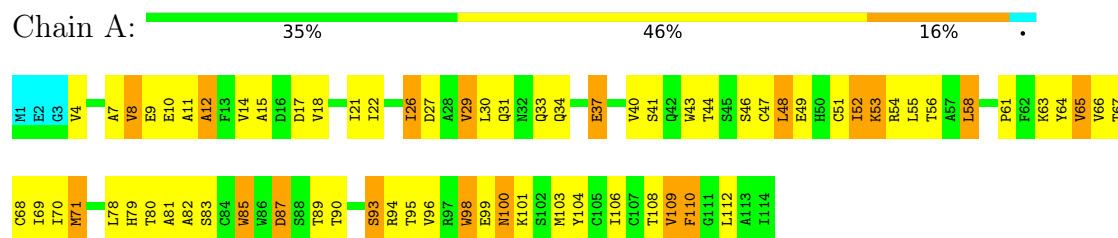


- Molecule 1: Tctex1 Light Chain protein

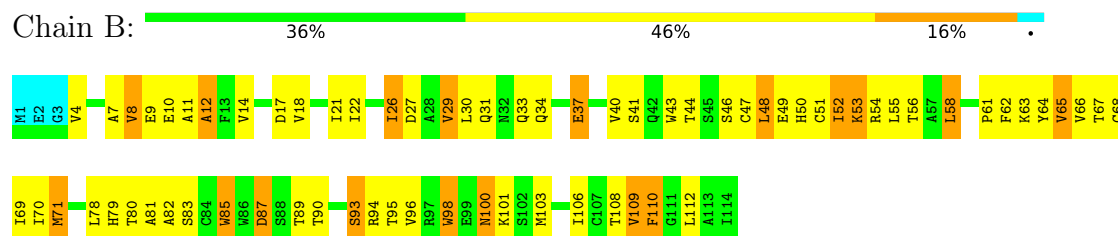


4.2.10 Score per residue for model 10

- Molecule 1: Tctex1 Light Chain protein

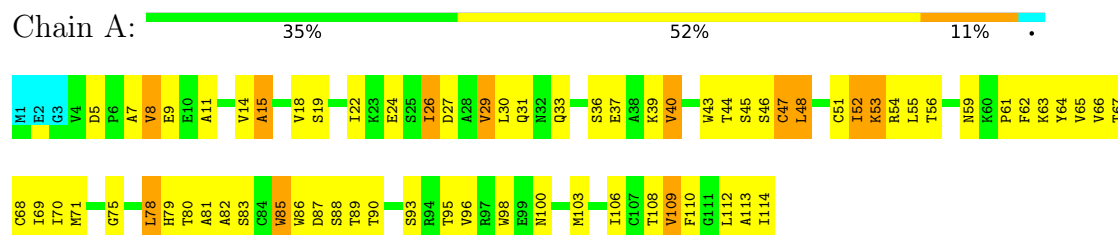


- Molecule 1: Tctex1 Light Chain protein

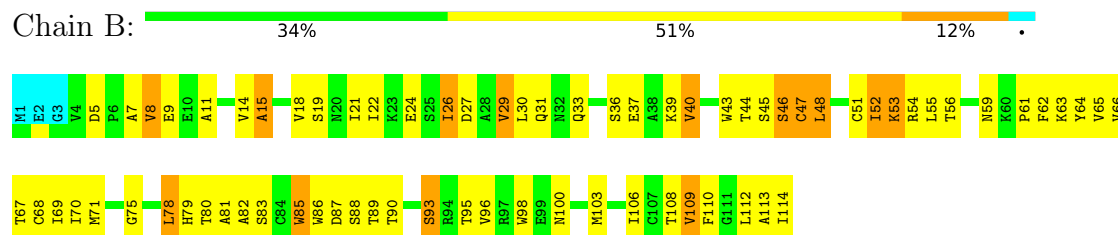


4.2.11 Score per residue for model 11

- Molecule 1: Tctex1 Light Chain protein

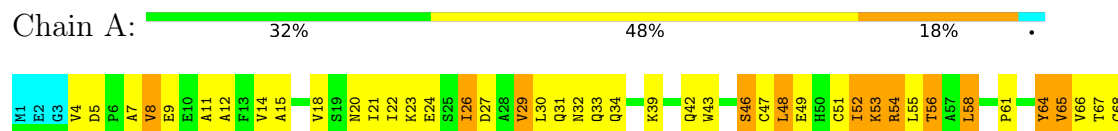


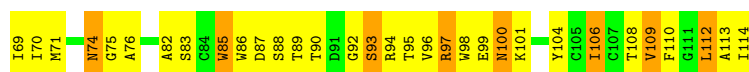
- Molecule 1: Tctex1 Light Chain protein



4.2.12 Score per residue for model 12

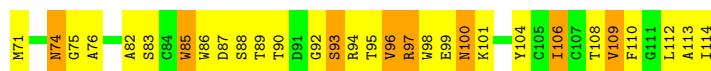
- Molecule 1: Tctex1 Light Chain protein





- Molecule 1: Tctex1 Light Chain protein

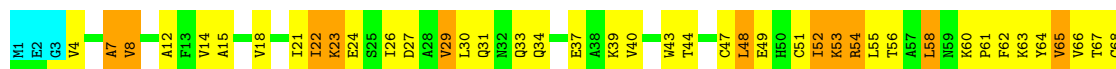
Chain B: 32% 47% 18%



4.2.13 Score per residue for model 13 (medoid)

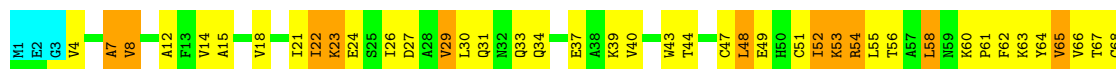
- Molecule 1: Tctex1 Light Chain protein

Chain A: 35% 47% 15%



- Molecule 1: Tctex1 Light Chain protein

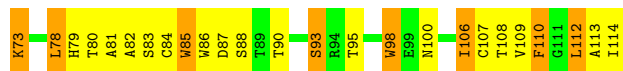
Chain B: 35% 46% 16%



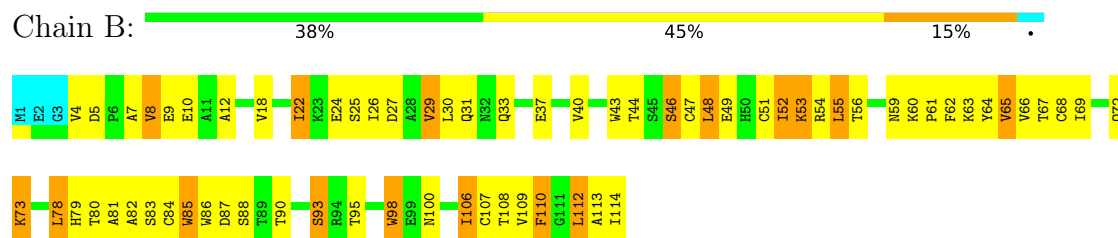
4.2.14 Score per residue for model 14

- Molecule 1: Tctex1 Light Chain protein

Chain A: 38% 44% 16%

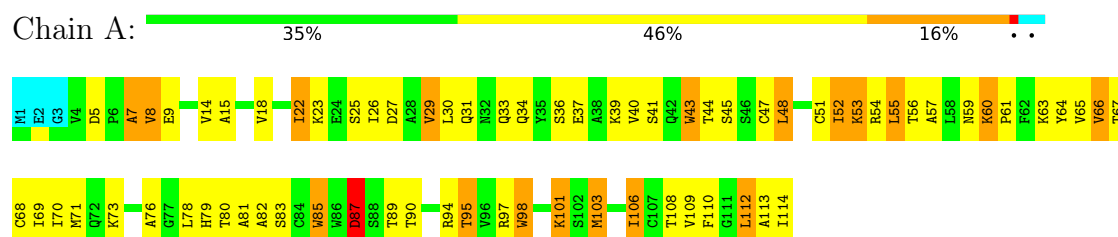


- Molecule 1: Tctex1 Light Chain protein

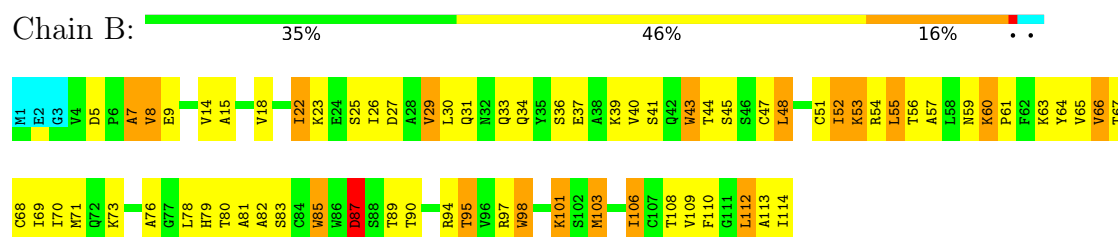


4.2.15 Score per residue for model 15

- Molecule 1: Tctex1 Light Chain protein



- Molecule 1: Tctex1 Light Chain protein



5 Refinement protocol and experimental data overview

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

Of the 90 calculated structures, 15 were deposited, based on the following criterion: *target function, structures with the least restraint violations*.

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

Software name	Classification	Version
CYANA	structure solution	1.1
X-PLOR	refinement	3.851

No chemical shift data was provided.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.42±0.01	0±0/880 (0.0± 0.0%)	0.71±0.01	0±0/1196 (0.0± 0.0%)
1	B	0.42±0.01	0±0/880 (0.0± 0.0%)	0.71±0.01	0±0/1196 (0.0± 0.0%)
All	All	0.42	0/26400 (0.0%)	0.71	2/35880 (0.0%)

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	8	VAL	CB-CA-C	-5.68	106.88	111.71	7	1
1	B	8	VAL	CB-CA-C	-5.66	106.90	111.71	7	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	863	849	847	152±58
1	B	863	849	847	152±56
All	All	25890	25470	25388	3071

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 60.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:78:LEU:CD2	1:B:78:LEU:HD23	1.66	1.15	1	1
1:A:78:LEU:HD23	1:B:78:LEU:CD2	1.57	1.15	1	1
1:A:78:LEU:CD2	1:B:69:ILE:CG2	1.54	1.84	3	3
1:A:79:HIS:HB2	1:B:70:ILE:CD1	1.54	1.01	8	6
1:A:69:ILE:CG2	1:B:78:LEU:CD2	1.52	1.84	3	3
1:A:79:HIS:CB	1:B:70:ILE:HD11	1.51	1.01	8	4
1:A:70:ILE:HD11	1:B:79:HIS:CB	1.51	1.00	8	4
1:A:70:ILE:CD1	1:B:79:HIS:HB2	1.51	1.01	8	6
1:A:69:ILE:CD1	1:B:80:THR:HG23	1.47	1.38	10	5
1:A:80:THR:HG23	1:B:69:ILE:CD1	1.45	1.38	10	5
1:A:69:ILE:CG1	1:B:80:THR:HG23	1.44	1.42	8	10
1:A:85:TRP:CD1	1:B:64:TYR:CE1	1.44	1.83	1	2
1:A:79:HIS:HB2	1:B:70:ILE:CG1	1.43	1.41	9	6
1:A:78:LEU:HD21	1:B:69:ILE:CG2	1.43	1.43	8	6
1:A:80:THR:HG23	1:B:69:ILE:CG1	1.43	1.42	8	10
1:A:69:ILE:CG2	1:B:78:LEU:HD21	1.42	1.43	8	6
1:A:70:ILE:HD11	1:B:79:HIS:CD2	1.42	1.46	9	1
1:A:64:TYR:CE1	1:B:85:TRP:CD1	1.42	1.83	1	2
1:A:70:ILE:CG1	1:B:79:HIS:HB2	1.42	1.41	9	6
1:A:79:HIS:CD2	1:B:70:ILE:HD11	1.42	1.46	9	1
1:A:81:ALA:CB	1:B:44:THR:HG23	1.41	1.43	3	5
1:A:44:THR:HG23	1:B:81:ALA:CB	1.41	1.43	3	6
1:A:78:LEU:CD2	1:B:78:LEU:CD2	1.39	1.81	1	1
1:A:81:ALA:HB3	1:B:68:CYS:SG	1.37	1.59	3	2
1:A:68:CYS:SG	1:B:81:ALA:HB3	1.36	1.59	3	2
1:A:72:GLN:HB3	1:B:77:GLY:CA	1.35	1.51	9	1
1:A:77:GLY:HA3	1:B:72:GLN:CB	1.35	1.52	9	2
1:A:72:GLN:CB	1:B:77:GLY:HA3	1.34	1.52	9	2
1:A:82:ALA:N	1:B:48:LEU:CD2	1.33	1.91	3	3
1:A:77:GLY:CA	1:B:72:GLN:HB3	1.33	1.51	9	1
1:A:87:ASP:OD1	1:B:63:LYS:NZ	1.33	1.62	1	1
1:A:48:LEU:CD2	1:B:82:ALA:N	1.32	1.91	3	3
1:A:63:LYS:NZ	1:B:87:ASP:OD1	1.31	1.62	1	1
1:A:85:TRP:CE3	1:B:62:PHE:C	1.29	2.10	14	1
1:A:83:SER:O	1:B:65:VAL:HA	1.28	1.25	14	5
1:A:62:PHE:C	1:B:85:TRP:CE3	1.27	2.10	14	1
1:A:65:VAL:HA	1:B:83:SER:O	1.27	1.14	11	5
1:A:70:ILE:CG1	1:B:79:HIS:CB	1.26	2.11	1	4
1:A:79:HIS:CB	1:B:70:ILE:CG1	1.26	2.11	1	4
1:A:68:CYS:N	1:B:81:ALA:O	1.26	1.68	10	8
1:A:64:TYR:H	1:B:85:TRP:CG	1.26	1.47	4	2
1:A:85:TRP:CG	1:B:64:TYR:H	1.26	1.47	4	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:67:THR:HB	1:B:82:ALA:CB	1.25	1.60	10	7
1:A:82:ALA:CB	1:B:67:THR:HB	1.25	1.60	10	7
1:A:63:LYS:HB2	1:B:86:TRP:CD1	1.24	1.67	14	1
1:A:81:ALA:O	1:B:68:CYS:N	1.24	1.68	10	8
1:A:86:TRP:CD1	1:B:63:LYS:HB2	1.23	1.67	14	1
1:A:69:ILE:CG1	1:B:80:THR:CG2	1.23	2.17	8	6
1:A:80:THR:CG2	1:B:69:ILE:CG1	1.23	2.17	8	6
1:A:62:PHE:HB3	1:B:85:TRP:CZ3	1.22	1.67	14	1
1:A:69:ILE:HG13	1:B:80:THR:CG2	1.22	1.64	3	9
1:A:85:TRP:CB	1:B:64:TYR:H	1.22	1.46	4	2
1:A:85:TRP:CZ3	1:B:62:PHE:HB3	1.22	1.67	14	1
1:A:64:TYR:H	1:B:85:TRP:CB	1.22	1.46	4	2
1:A:85:TRP:HE1	1:B:56:THR:CG2	1.21	1.47	3	4
1:A:80:THR:CG2	1:B:69:ILE:HG13	1.21	1.64	3	9
1:A:79:HIS:CB	1:B:70:ILE:HG13	1.21	1.64	9	2
1:A:70:ILE:HG13	1:B:79:HIS:CB	1.21	1.64	9	2
1:A:85:TRP:NE1	1:B:56:THR:HG22	1.21	1.51	3	5
1:A:56:THR:CG2	1:B:85:TRP:HE1	1.20	1.47	3	4
1:A:66:VAL:O	1:B:83:SER:N	1.20	1.74	10	8
1:A:82:ALA:CA	1:B:48:LEU:CD2	1.20	2.20	3	1
1:A:79:HIS:N	1:B:70:ILE:O	1.19	1.76	3	3
1:A:48:LEU:CD2	1:B:82:ALA:CA	1.19	2.20	3	1
1:A:69:ILE:HG12	1:B:80:THR:OG1	1.19	1.35	8	4
1:A:81:ALA:N	1:B:68:CYS:O	1.19	1.74	3	6
1:A:83:SER:N	1:B:66:VAL:O	1.19	1.73	11	8
1:A:56:THR:HG22	1:B:85:TRP:NE1	1.19	1.51	3	5
1:A:68:CYS:O	1:B:81:ALA:N	1.19	1.74	3	6
1:A:80:THR:OG1	1:B:69:ILE:HG12	1.19	1.35	8	4
1:A:48:LEU:HD21	1:B:81:ALA:C	1.18	1.64	3	6
1:A:70:ILE:O	1:B:79:HIS:N	1.18	1.76	3	3
1:A:79:HIS:CG	1:B:70:ILE:HD11	1.17	1.75	9	3
1:A:63:LYS:NZ	1:B:87:ASP:CG	1.17	2.03	1	1
1:A:70:ILE:HD11	1:B:79:HIS:CG	1.17	1.75	9	3
1:A:81:ALA:C	1:B:48:LEU:HD21	1.16	1.64	3	6
1:A:69:ILE:HG12	1:B:80:THR:CB	1.16	1.70	8	2
1:A:87:ASP:CG	1:B:63:LYS:NZ	1.15	2.03	1	1
1:A:80:THR:CB	1:B:69:ILE:HG12	1.15	1.70	8	2
1:A:83:SER:O	1:B:65:VAL:CA	1.15	1.94	11	3
1:A:67:THR:OG1	1:B:81:ALA:O	1.14	1.65	11	6
1:A:67:THR:HA	1:B:82:ALA:CA	1.14	1.73	1	6
1:A:65:VAL:CA	1:B:83:SER:O	1.14	1.95	11	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:52:ILE:HD11	1:B:85:TRP:CD1	1.14	1.77	3	4
1:A:85:TRP:CD1	1:B:52:ILE:HD11	1.14	1.77	3	4
1:A:48:LEU:CD2	1:B:81:ALA:HB1	1.14	1.72	11	6
1:A:62:PHE:O	1:B:85:TRP:CD2	1.14	2.01	14	1
1:A:80:THR:CB	1:B:69:ILE:HG13	1.13	1.73	10	4
1:A:70:ILE:HD12	1:B:79:HIS:N	1.13	1.58	8	1
1:A:68:CYS:SG	1:B:81:ALA:CB	1.13	2.36	1	2
1:A:85:TRP:CD2	1:B:62:PHE:O	1.13	2.01	14	1
1:A:48:LEU:HD23	1:B:82:ALA:N	1.13	1.54	3	2
1:A:81:ALA:HB1	1:B:48:LEU:CD2	1.13	1.72	11	6
1:A:70:ILE:CD1	1:B:79:HIS:CD2	1.13	2.32	9	1
1:A:79:HIS:CD2	1:B:70:ILE:CD1	1.12	2.32	9	1
1:A:81:ALA:CB	1:B:68:CYS:SG	1.12	2.36	1	2
1:A:82:ALA:CA	1:B:67:THR:HA	1.12	1.73	1	6
1:A:79:HIS:N	1:B:70:ILE:HD12	1.12	1.58	8	1
1:A:69:ILE:HG13	1:B:80:THR:CB	1.12	1.73	10	4
1:A:69:ILE:HD11	1:B:80:THR:CG2	1.12	1.75	10	2
1:A:81:ALA:O	1:B:67:THR:OG1	1.11	1.65	11	6
1:A:63:LYS:CE	1:B:90:THR:HG21	1.11	1.74	14	1
1:A:85:TRP:CB	1:B:64:TYR:N	1.11	2.13	4	2
1:A:90:THR:HG21	1:B:63:LYS:CE	1.11	1.74	14	1
1:A:63:LYS:HE2	1:B:90:THR:CG2	1.11	1.75	14	1
1:A:90:THR:CG2	1:B:63:LYS:HE2	1.10	1.74	14	1
1:A:81:ALA:O	1:B:67:THR:CA	1.10	1.99	10	6
1:A:69:ILE:HA	1:B:80:THR:HA	1.10	1.21	8	7
1:A:81:ALA:HB2	1:B:44:THR:CG2	1.10	1.76	3	3
1:A:81:ALA:HB3	1:B:44:THR:HG23	1.10	1.17	3	2
1:A:86:TRP:CZ2	1:B:63:LYS:HB3	1.10	1.61	4	1
1:A:80:THR:CG2	1:B:69:ILE:HD11	1.10	1.75	10	2
1:A:63:LYS:HB3	1:B:86:TRP:CZ2	1.10	1.61	4	1
1:A:67:THR:CA	1:B:81:ALA:O	1.10	1.99	10	6
1:A:79:HIS:O	1:B:70:ILE:N	1.09	1.84	9	6
1:A:81:ALA:CB	1:B:44:THR:CG2	1.09	2.30	3	3
1:A:64:TYR:N	1:B:85:TRP:CB	1.09	2.13	4	2
1:A:85:TRP:HZ3	1:B:62:PHE:CZ	1.09	1.65	11	1
1:A:70:ILE:HG12	1:B:79:HIS:CB	1.09	1.77	13	2
1:A:62:PHE:CZ	1:B:85:TRP:HZ3	1.09	1.66	11	1
1:A:44:THR:CG2	1:B:81:ALA:CB	1.09	2.30	3	3
1:A:70:ILE:N	1:B:79:HIS:O	1.09	1.84	9	6
1:A:69:ILE:HG13	1:B:80:THR:CA	1.09	1.76	10	3
1:A:48:LEU:HB3	1:B:83:SER:HB2	1.09	1.10	3	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:80:THR:CA	1:B:69:ILE:HG13	1.09	1.76	10	3
1:A:82:ALA:CA	1:B:48:LEU:HD23	1.08	1.76	3	2
1:A:44:THR:CG2	1:B:81:ALA:HB2	1.08	1.76	3	3
1:A:69:ILE:HG13	1:B:80:THR:HG23	1.08	1.09	1	11
1:A:82:ALA:HA	1:B:67:THR:HA	1.08	1.25	10	9
1:A:67:THR:HA	1:B:82:ALA:HA	1.08	1.25	10	9
1:A:65:VAL:HG13	1:B:84:CYS:HA	1.08	1.23	4	1
1:A:79:HIS:CB	1:B:70:ILE:HG12	1.08	1.77	13	2
1:A:67:THR:CB	1:B:82:ALA:HB2	1.07	1.78	1	5
1:A:82:ALA:HB2	1:B:67:THR:CB	1.07	1.78	1	5
1:A:78:LEU:HG	1:B:70:ILE:O	1.07	1.48	10	4
1:A:44:THR:HG23	1:B:81:ALA:HB3	1.07	1.17	3	2
1:A:48:LEU:HD23	1:B:82:ALA:CA	1.07	1.76	3	2
1:A:70:ILE:O	1:B:78:LEU:HG	1.06	1.48	10	4
1:A:83:SER:HB2	1:B:48:LEU:HB3	1.06	1.11	3	5
1:A:82:ALA:HA	1:B:67:THR:CA	1.06	1.81	1	8
1:A:69:ILE:HG21	1:B:78:LEU:HD21	1.06	1.16	3	3
1:A:67:THR:CA	1:B:82:ALA:HA	1.05	1.80	1	8
1:A:62:PHE:CB	1:B:85:TRP:CZ3	1.05	2.39	14	1
1:A:63:LYS:HZ2	1:B:87:ASP:CG	1.05	1.59	1	1
1:A:80:THR:HG23	1:B:69:ILE:HG13	1.05	1.06	3	10
1:A:78:LEU:HD21	1:B:69:ILE:HG22	1.05	1.06	3	2
1:A:85:TRP:CZ3	1:B:62:PHE:CB	1.04	2.39	14	1
1:A:66:VAL:N	1:B:83:SER:O	1.04	1.90	4	5
1:A:84:CYS:SG	1:B:65:VAL:CG1	1.04	2.46	1	2
1:A:69:ILE:HG22	1:B:78:LEU:HD21	1.04	1.06	3	2
1:A:63:LYS:HA	1:B:85:TRP:HB3	1.04	1.27	14	2
1:A:80:THR:HA	1:B:69:ILE:HA	1.04	1.21	8	7
1:A:69:ILE:CG1	1:B:80:THR:OG1	1.04	2.04	3	4
1:A:80:THR:OG1	1:B:69:ILE:CG1	1.04	2.04	3	4
1:A:78:LEU:CD2	1:B:78:LEU:HD21	1.03	1.82	1	1
1:A:69:ILE:CD1	1:B:80:THR:CG2	1.03	2.35	10	2
1:A:83:SER:O	1:B:66:VAL:N	1.03	1.90	4	5
1:A:82:ALA:HB2	1:B:67:THR:HB	1.03	1.11	10	5
1:A:82:ALA:N	1:B:48:LEU:HD23	1.03	1.54	3	2
1:A:56:THR:HG22	1:B:85:TRP:HE1	1.03	0.87	3	4
1:A:65:VAL:CG1	1:B:84:CYS:SG	1.03	2.46	1	2
1:A:82:ALA:CB	1:B:67:THR:CB	1.03	2.35	1	5
1:A:85:TRP:HB3	1:B:63:LYS:HA	1.03	1.27	14	2
1:A:80:THR:CG2	1:B:69:ILE:CD1	1.03	2.35	10	2
1:A:67:THR:CB	1:B:82:ALA:CB	1.02	2.35	1	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:81:ALA:HB2	1:B:44:THR:HG23	1.02	1.23	3	2
1:A:85:TRP:HB2	1:B:64:TYR:N	1.02	1.67	4	2
1:A:80:THR:CG2	1:B:68:CYS:O	1.02	2.07	3	1
1:A:67:THR:HB	1:B:82:ALA:HB2	1.02	1.11	10	5
1:A:78:LEU:HD21	1:B:69:ILE:HG21	1.02	1.16	3	3
1:A:86:TRP:CD1	1:B:63:LYS:CB	1.02	2.43	14	1
1:A:78:LEU:HD21	1:B:78:LEU:CD2	1.01	1.82	1	1
1:A:79:HIS:C	1:B:70:ILE:CD1	1.01	2.31	3	1
1:A:68:CYS:O	1:B:80:THR:CG2	1.01	2.07	3	1
1:A:79:HIS:HB2	1:B:70:ILE:HG12	1.01	1.26	13	2
1:A:63:LYS:CB	1:B:86:TRP:CD1	1.01	2.43	14	1
1:A:70:ILE:HD12	1:B:79:HIS:H	1.01	1.06	8	1
1:A:70:ILE:O	1:B:78:LEU:HD22	1.01	1.56	13	1
1:A:69:ILE:HA	1:B:80:THR:CA	1.00	1.86	3	3
1:A:84:CYS:HA	1:B:65:VAL:HG13	1.00	1.23	4	1
1:A:63:LYS:HE2	1:B:90:THR:HG21	1.00	1.02	14	1
1:A:79:HIS:HB2	1:B:70:ILE:HD11	1.00	1.33	1	4
1:A:85:TRP:HE1	1:B:56:THR:HG22	1.00	0.88	7	4
1:A:80:THR:CA	1:B:69:ILE:HA	1.00	1.86	3	3
1:A:64:TYR:N	1:B:85:TRP:HB2	1.00	1.67	4	2
1:A:85:TRP:CZ3	1:B:62:PHE:CZ	1.00	2.50	11	2
1:A:78:LEU:HG	1:B:78:LEU:HG	1.00	1.34	11	1
1:A:90:THR:HG21	1:B:63:LYS:HE2	1.00	1.02	14	1
1:A:69:ILE:HG21	1:B:78:LEU:CD2	0.99	1.77	8	2
1:A:69:ILE:HG13	1:B:80:THR:HA	0.99	1.30	10	3
1:A:48:LEU:CD2	1:B:81:ALA:C	0.99	2.31	3	2
1:A:78:LEU:CD2	1:B:69:ILE:HG23	0.99	1.60	3	4
1:A:78:LEU:HD22	1:B:70:ILE:O	0.99	1.56	13	1
1:A:62:PHE:CZ	1:B:85:TRP:CZ3	0.99	2.50	11	2
1:A:70:ILE:HD11	1:B:79:HIS:HB2	0.98	1.33	5	4
1:A:70:ILE:HG13	1:B:79:HIS:H	0.98	1.15	13	3
1:A:62:PHE:O	1:B:85:TRP:CE3	0.98	2.13	14	2
1:A:85:TRP:CG	1:B:64:TYR:N	0.98	2.31	4	1
1:A:79:HIS:H	1:B:70:ILE:HG13	0.98	1.15	13	3
1:A:80:THR:CG2	1:B:69:ILE:HG12	0.98	1.85	8	3
1:A:80:THR:HA	1:B:69:ILE:HG13	0.97	1.30	10	3
1:A:84:CYS:SG	1:B:65:VAL:HG13	0.97	2.00	4	2
1:A:70:ILE:CD1	1:B:79:HIS:CA	0.97	2.42	8	1
1:A:83:SER:CB	1:B:48:LEU:HB3	0.97	1.90	3	4
1:A:85:TRP:CE3	1:B:62:PHE:O	0.97	2.13	14	2
1:A:78:LEU:HD21	1:B:71:MET:SD	0.96	1.99	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:70:ILE:CD1	1:B:79:HIS:C	0.96	2.31	3	1
1:A:71:MET:SD	1:B:78:LEU:HD21	0.96	1.99	11	1
1:A:65:VAL:HG13	1:B:84:CYS:SG	0.96	2.00	4	2
1:A:70:ILE:CD1	1:B:79:HIS:CB	0.96	1.88	8	4
1:A:78:LEU:HD21	1:B:69:ILE:HG23	0.96	0.98	3	3
1:A:62:PHE:HB3	1:B:85:TRP:HZ3	0.96	0.92	14	1
1:A:79:HIS:CA	1:B:70:ILE:CD1	0.96	2.43	8	1
1:A:67:THR:OG1	1:B:82:ALA:HB2	0.96	1.60	1	5
1:A:70:ILE:HG12	1:B:79:HIS:HB2	0.96	1.26	13	2
1:A:69:ILE:HG23	1:B:78:LEU:HD21	0.95	0.98	3	3
1:A:85:TRP:HZ3	1:B:62:PHE:HB3	0.95	0.92	14	1
1:A:79:HIS:HB3	1:B:70:ILE:HG12	0.95	1.35	1	1
1:A:52:ILE:HD11	1:B:85:TRP:HD1	0.95	1.16	3	3
1:A:69:ILE:HG12	1:B:80:THR:CG2	0.95	1.84	8	3
1:A:48:LEU:HB3	1:B:83:SER:CB	0.95	1.90	3	4
1:A:70:ILE:HG12	1:B:79:HIS:HB3	0.95	1.35	1	1
1:A:78:LEU:HD12	1:B:71:MET:HG2	0.95	1.36	15	1
1:A:79:HIS:H	1:B:70:ILE:CD1	0.94	1.75	8	1
1:A:82:ALA:HB2	1:B:67:THR:OG1	0.94	1.60	1	5
1:A:63:LYS:HA	1:B:85:TRP:CB	0.94	1.92	14	1
1:A:79:HIS:CB	1:B:70:ILE:CD1	0.94	1.88	8	4
1:A:81:ALA:C	1:B:48:LEU:CD2	0.94	2.31	3	2
1:A:64:TYR:N	1:B:85:TRP:CG	0.94	2.31	4	1
1:A:67:THR:C	1:B:81:ALA:O	0.94	2.11	10	5
1:A:70:ILE:CD1	1:B:79:HIS:H	0.94	1.75	8	1
1:A:71:MET:HG2	1:B:78:LEU:HD12	0.94	1.36	15	1
1:A:81:ALA:O	1:B:67:THR:C	0.93	2.11	10	5
1:A:80:THR:HG23	1:B:69:ILE:HD11	0.93	0.94	10	3
1:A:86:TRP:CZ2	1:B:63:LYS:CB	0.92	2.52	4	1
1:A:56:THR:CG2	1:B:85:TRP:NE1	0.92	2.32	12	2
1:A:85:TRP:CB	1:B:63:LYS:HA	0.92	1.92	14	1
1:A:114:ILE:C	1:B:86:TRP:NE1	0.92	2.28	14	1
1:A:78:LEU:CD1	1:B:71:MET:HG2	0.92	1.95	15	1
1:B:22:ILE:HD13	1:B:109:VAL:HG22	0.92	1.39	1	1
1:A:80:THR:CB	1:B:69:ILE:CG1	0.92	2.47	8	5
1:A:22:ILE:HD13	1:A:109:VAL:HG22	0.92	1.39	1	1
1:A:48:LEU:CD2	1:B:82:ALA:HA	0.91	1.95	3	1
1:A:78:LEU:CD2	1:B:69:ILE:HG21	0.91	1.77	8	2
1:A:63:LYS:CB	1:B:86:TRP:CZ2	0.91	2.52	4	1
1:A:85:TRP:NE1	1:B:56:THR:CG2	0.91	2.32	12	2
1:A:86:TRP:HD1	1:B:63:LYS:CG	0.91	1.78	14	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:86:TRP:HD1	1:B:63:LYS:CB	0.91	1.77	14	1
1:A:79:HIS:N	1:B:70:ILE:CD1	0.91	2.33	8	1
1:A:85:TRP:CZ3	1:B:62:PHE:CA	0.91	2.53	14	1
1:A:87:ASP:CG	1:B:63:LYS:HZ2	0.91	1.68	1	1
1:A:86:TRP:NE1	1:B:114:ILE:C	0.91	2.28	14	1
1:A:79:HIS:H	1:B:70:ILE:HD12	0.91	1.06	8	1
1:A:69:ILE:HG23	1:B:78:LEU:CD2	0.91	1.60	3	4
1:A:81:ALA:O	1:B:67:THR:CB	0.91	2.18	10	5
1:A:80:THR:HG23	1:B:68:CYS:O	0.90	1.66	3	1
1:A:63:LYS:CG	1:B:86:TRP:HD1	0.90	1.78	14	2
1:A:67:THR:CB	1:B:81:ALA:O	0.90	2.18	10	5
1:A:64:TYR:CE2	1:B:85:TRP:CE2	0.90	2.59	14	2
1:A:81:ALA:HB1	1:B:48:LEU:HD22	0.90	1.42	13	7
1:A:68:CYS:O	1:B:80:THR:HG23	0.90	1.66	3	1
1:A:69:ILE:CA	1:B:80:THR:HA	0.90	1.96	3	6
1:A:62:PHE:CA	1:B:85:TRP:CZ3	0.90	2.54	14	1
1:A:86:TRP:HD1	1:B:63:LYS:HB2	0.90	1.27	14	1
1:A:85:TRP:CE2	1:B:64:TYR:CE2	0.90	2.59	14	2
1:A:65:VAL:CG1	1:B:84:CYS:HA	0.90	1.95	4	1
1:A:69:ILE:HD11	1:B:80:THR:HG23	0.90	0.94	10	3
1:A:86:TRP:HE1	1:B:62:PHE:HE2	0.90	1.10	11	1
1:A:70:ILE:HG13	1:B:79:HIS:N	0.90	1.82	13	1
1:A:71:MET:HG2	1:B:78:LEU:CD1	0.90	1.95	15	1
1:A:82:ALA:HA	1:B:48:LEU:CD2	0.90	1.95	3	1
1:A:82:ALA:HB1	1:B:67:THR:HB	0.90	1.43	1	2
1:A:84:CYS:HA	1:B:65:VAL:CG1	0.90	1.95	4	1
1:A:48:LEU:HD23	1:B:82:ALA:C	0.89	1.92	3	1
1:A:79:HIS:C	1:B:70:ILE:HD13	0.89	1.91	3	1
1:A:69:ILE:CG1	1:B:80:THR:CB	0.89	2.47	8	5
1:A:85:TRP:HB2	1:B:64:TYR:O	0.89	1.68	1	2
1:A:80:THR:HA	1:B:69:ILE:CG1	0.89	1.97	9	3
1:A:69:ILE:HG12	1:B:80:THR:HG23	0.89	1.44	9	2
1:A:48:LEU:HD22	1:B:81:ALA:HB1	0.89	1.42	13	7
1:A:52:ILE:CD1	1:B:85:TRP:HD1	0.89	1.80	3	3
1:A:64:TYR:O	1:B:85:TRP:HB2	0.89	1.67	1	2
1:A:62:PHE:HE2	1:B:86:TRP:HE1	0.89	1.10	11	1
1:A:70:ILE:HD13	1:B:79:HIS:C	0.88	1.91	3	1
1:A:69:ILE:CG1	1:B:80:THR:HA	0.88	1.97	9	3
1:A:85:TRP:HD1	1:B:52:ILE:CD1	0.88	1.80	3	3
1:A:79:HIS:N	1:B:70:ILE:HG13	0.88	1.82	13	1
1:A:82:ALA:C	1:B:48:LEU:HD23	0.88	1.92	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:48:LEU:HD21	1:B:82:ALA:N	0.88	1.66	3	4
1:A:65:VAL:HG12	1:B:84:CYS:SG	0.87	2.09	1	1
1:A:85:TRP:CD1	1:B:52:ILE:CD1	0.87	2.57	3	3
1:A:52:ILE:CD1	1:B:85:TRP:CD1	0.87	2.56	3	3
1:A:70:ILE:HD12	1:B:79:HIS:CA	0.87	1.99	8	1
1:A:67:THR:HB	1:B:82:ALA:HB1	0.87	1.43	1	2
1:A:87:ASP:OD2	1:B:63:LYS:CD	0.87	2.23	3	1
1:A:80:THR:HA	1:B:69:ILE:CA	0.87	2.00	8	5
1:A:79:HIS:CA	1:B:70:ILE:HD12	0.86	2.00	8	1
1:A:63:LYS:CB	1:B:86:TRP:HD1	0.86	1.77	14	1
1:A:84:CYS:SG	1:B:65:VAL:HG12	0.86	2.09	1	1
1:A:78:LEU:HA	1:B:70:ILE:O	0.86	1.70	8	2
1:A:70:ILE:O	1:B:78:LEU:HA	0.86	1.70	8	2
1:A:80:THR:HG23	1:B:69:ILE:HG12	0.86	1.44	9	3
1:A:84:CYS:CA	1:B:65:VAL:HG13	0.86	2.00	4	1
1:A:41:SER:OG	1:B:79:HIS:HB3	0.86	1.71	6	1
1:A:71:MET:HE3	1:B:78:LEU:CD1	0.86	2.01	10	1
1:A:85:TRP:CZ3	1:B:62:PHE:C	0.86	2.54	14	1
1:A:67:THR:CB	1:B:82:ALA:HA	0.86	2.01	9	5
1:A:63:LYS:CD	1:B:87:ASP:OD2	0.86	2.23	3	1
1:A:79:HIS:HB3	1:B:41:SER:OG	0.85	1.71	6	1
1:A:62:PHE:C	1:B:85:TRP:CZ3	0.85	2.54	14	1
1:A:85:TRP:HD1	1:B:52:ILE:HD11	0.85	1.16	3	2
1:A:82:ALA:HA	1:B:67:THR:CB	0.85	2.01	9	4
1:A:81:ALA:C	1:B:68:CYS:H	0.85	1.80	10	4
1:A:65:VAL:HG13	1:B:84:CYS:CA	0.84	2.00	4	1
1:A:78:LEU:CD1	1:B:71:MET:HE3	0.84	2.01	10	1
1:A:18:VAL:HG13	1:A:55:LEU:HD21	0.84	1.50	12	7
1:A:68:CYS:H	1:B:81:ALA:C	0.84	1.79	10	4
1:A:78:LEU:HD21	1:B:78:LEU:HD21	0.84	1.38	1	1
1:B:52:ILE:O	1:B:56:THR:HG23	0.84	1.73	13	14
1:A:69:ILE:HG12	1:B:80:THR:HG1	0.84	1.30	8	3
1:A:64:TYR:HE1	1:B:85:TRP:CD1	0.84	1.66	1	1
1:A:22:ILE:HD11	1:A:96:VAL:HG21	0.84	1.50	2	3
1:A:86:TRP:HZ2	1:B:63:LYS:HB3	0.83	1.08	4	1
1:A:52:ILE:O	1:A:56:THR:HG23	0.83	1.74	1	14
1:A:87:ASP:OD2	1:B:63:LYS:HD2	0.83	1.74	3	2
1:A:79:HIS:CG	1:B:70:ILE:CD1	0.83	2.59	9	1
1:A:82:ALA:CA	1:B:48:LEU:HD21	0.83	1.99	3	1
1:B:22:ILE:HD11	1:B:96:VAL:HG21	0.83	1.50	2	3
1:A:85:TRP:CZ3	1:B:62:PHE:CE2	0.83	2.67	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:79:HIS:HD2	1:B:70:ILE:CD1	0.82	1.81	9	1
1:A:81:ALA:HB3	1:B:68:CYS:C	0.82	1.97	9	1
1:A:62:PHE:CE2	1:B:85:TRP:CZ3	0.82	2.67	11	2
1:A:85:TRP:CH2	1:B:62:PHE:CZ	0.82	2.67	6	1
1:B:40:VAL:HG13	1:B:103:MET:HE1	0.82	1.51	11	1
1:A:64:TYR:CE1	1:B:85:TRP:HD1	0.82	1.88	1	1
1:A:82:ALA:N	1:B:48:LEU:HD21	0.82	1.66	3	4
1:A:40:VAL:HG13	1:A:103:MET:HE1	0.82	1.51	11	1
1:B:18:VAL:HG13	1:B:55:LEU:HD21	0.82	1.50	12	6
1:A:37:GLU:O	1:A:40:VAL:HG22	0.82	1.75	10	2
1:A:78:LEU:CD1	1:B:78:LEU:HD22	0.82	2.05	15	1
1:A:63:LYS:HB2	1:B:86:TRP:NE1	0.81	1.90	14	1
1:B:7:ALA:HB2	1:B:98:TRP:CZ3	0.81	2.10	8	6
1:A:63:LYS:HB3	1:B:86:TRP:HZ2	0.81	1.08	4	1
1:A:85:TRP:HB2	1:B:64:TYR:C	0.81	2.00	4	1
1:A:81:ALA:CB	1:B:48:LEU:CD2	0.81	2.58	11	4
1:A:7:ALA:HB2	1:A:98:TRP:CZ3	0.81	2.11	10	6
1:A:62:PHE:CZ	1:B:85:TRP:CH2	0.81	2.68	6	1
1:A:63:LYS:HD2	1:B:87:ASP:OD2	0.81	1.74	3	2
1:A:114:ILE:C	1:B:86:TRP:HE1	0.81	1.83	14	1
1:A:77:GLY:HA3	1:B:72:GLN:HB2	0.80	1.54	13	1
1:A:86:TRP:NE1	1:B:63:LYS:HB2	0.80	1.90	14	1
1:A:68:CYS:C	1:B:81:ALA:HB3	0.80	1.97	9	1
1:A:78:LEU:HD22	1:B:78:LEU:CD1	0.80	2.05	15	1
1:A:64:TYR:C	1:B:85:TRP:HB2	0.80	2.00	4	1
1:B:37:GLU:O	1:B:40:VAL:HG22	0.80	1.75	10	2
1:A:70:ILE:HG13	1:B:79:HIS:HB2	0.80	0.81	9	2
1:B:40:VAL:HG11	1:B:103:MET:HE2	0.80	1.54	15	1
1:B:29:VAL:HG12	1:B:30:LEU:CD2	0.80	2.07	1	14
1:A:56:THR:HG21	1:B:85:TRP:HE1	0.80	1.37	12	2
1:A:68:CYS:HB3	1:B:81:ALA:HB3	0.80	1.53	8	3
1:A:86:TRP:HE1	1:B:114:ILE:C	0.79	1.83	14	1
1:A:69:ILE:HG23	1:B:78:LEU:HD23	0.79	1.53	8	2
1:A:29:VAL:HG12	1:A:30:LEU:CD2	0.79	2.07	11	14
1:A:78:LEU:HD23	1:B:69:ILE:HG23	0.79	1.53	8	2
1:A:48:LEU:CD2	1:B:81:ALA:CB	0.79	2.58	11	4
1:A:85:TRP:CD1	1:B:64:TYR:HE1	0.79	1.66	1	1
1:A:65:VAL:HG13	1:A:110:PHE:CB	0.79	2.07	15	2
1:A:78:LEU:CG	1:B:78:LEU:HG	0.79	2.08	11	1
1:A:70:ILE:CD1	1:B:79:HIS:CG	0.79	2.59	9	1
1:B:65:VAL:HG13	1:B:110:PHE:CB	0.79	2.07	15	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:TYR:H	1:B:85:TRP:HB2	0.79	1.37	14	1
1:A:64:TYR:CE1	1:B:85:TRP:CG	0.79	2.66	1	1
1:A:64:TYR:CD1	1:B:85:TRP:CD1	0.79	2.68	1	1
1:A:80:THR:HG1	1:B:69:ILE:HG12	0.79	1.36	8	3
1:A:79:HIS:HB2	1:B:70:ILE:HG13	0.78	0.81	9	2
1:A:81:ALA:HB1	1:B:48:LEU:HD21	0.78	1.56	11	1
1:A:85:TRP:HD1	1:B:64:TYR:CE1	0.78	1.88	1	1
1:A:48:LEU:HD21	1:B:82:ALA:CA	0.78	1.99	3	1
1:B:65:VAL:HG13	1:B:110:PHE:HB2	0.78	1.52	15	3
1:A:72:GLN:HB2	1:B:77:GLY:CA	0.78	2.09	13	1
1:A:67:THR:HA	1:B:81:ALA:O	0.78	1.78	10	6
1:A:79:HIS:HB3	1:B:70:ILE:CG1	0.78	1.96	1	1
1:A:85:TRP:CD1	1:B:64:TYR:CD1	0.78	2.68	1	1
1:A:81:ALA:HB3	1:B:68:CYS:HB3	0.78	1.53	8	3
1:A:70:ILE:CD1	1:B:79:HIS:HD2	0.78	1.81	9	1
1:A:65:VAL:HG13	1:A:110:PHE:HB2	0.78	1.53	15	3
1:A:78:LEU:HG	1:B:78:LEU:CG	0.78	2.08	11	1
1:A:72:GLN:HB2	1:B:77:GLY:HA3	0.78	1.54	13	1
1:A:77:GLY:CA	1:B:72:GLN:HB2	0.78	2.09	13	1
1:A:85:TRP:CG	1:B:64:TYR:CE1	0.78	2.66	1	1
1:A:82:ALA:HA	1:B:66:VAL:O	0.78	1.79	10	5
1:A:40:VAL:HG11	1:A:103:MET:HE2	0.78	1.54	15	1
1:A:66:VAL:O	1:B:82:ALA:HA	0.78	1.79	10	6
1:B:29:VAL:HG11	1:B:47:CYS:HB2	0.78	1.56	1	15
1:A:70:ILE:CD1	1:B:79:HIS:N	0.78	2.33	8	1
1:A:80:THR:HA	1:B:69:ILE:CB	0.77	2.09	9	1
1:A:78:LEU:HD23	1:B:69:ILE:CG2	0.77	2.07	8	1
1:A:63:LYS:N	1:B:85:TRP:CE3	0.77	2.52	14	1
1:A:69:ILE:CB	1:B:80:THR:HA	0.77	2.09	9	2
1:A:85:TRP:HB2	1:B:64:TYR:H	0.77	1.37	14	1
1:A:87:ASP:CG	1:B:63:LYS:HZ3	0.77	1.72	1	1
1:A:85:TRP:CE3	1:B:63:LYS:N	0.76	2.52	14	1
1:A:66:VAL:CB	1:B:83:SER:O	0.76	2.33	1	1
1:B:26:ILE:HG21	1:B:98:TRP:CD1	0.76	2.16	1	10
1:A:86:TRP:CD1	1:B:63:LYS:CG	0.76	2.67	14	1
1:B:22:ILE:HG22	1:B:51:CYS:SG	0.76	2.20	4	2
1:A:81:ALA:O	1:B:67:THR:HA	0.76	1.78	10	6
1:A:85:TRP:HE1	1:B:56:THR:HG21	0.76	1.37	12	1
1:A:44:THR:HG23	1:B:81:ALA:HB2	0.76	1.55	13	1
1:A:48:LEU:CB	1:B:83:SER:HB2	0.76	2.10	1	2
1:A:83:SER:O	1:B:66:VAL:CB	0.76	2.33	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:22:ILE:HG22	1:A:51:CYS:SG	0.76	2.20	4	2
1:A:26:ILE:HG21	1:A:98:TRP:CD1	0.76	2.16	1	10
1:A:83:SER:HB2	1:B:48:LEU:CB	0.75	2.10	1	2
1:B:22:ILE:HD12	1:B:51:CYS:SG	0.75	2.22	1	2
1:A:48:LEU:HD21	1:B:81:ALA:HB1	0.75	1.56	11	2
1:A:79:HIS:O	1:B:70:ILE:HD13	0.75	1.82	3	1
1:A:68:CYS:CA	1:B:81:ALA:HB3	0.74	2.12	9	1
1:A:71:MET:CE	1:B:78:LEU:HD21	0.74	2.12	11	1
1:B:40:VAL:CG1	1:B:70:ILE:HD13	0.74	2.12	2	1
1:A:22:ILE:HD12	1:A:51:CYS:SG	0.74	2.22	1	2
1:A:62:PHE:O	1:B:85:TRP:CZ3	0.74	2.40	1	1
1:B:22:ILE:HD11	1:B:107:CYS:SG	0.74	2.23	1	1
1:B:90:THR:HG22	1:B:114:ILE:CG1	0.74	2.13	15	2
1:A:29:VAL:HG11	1:A:47:CYS:HB2	0.74	1.56	1	15
1:A:48:LEU:O	1:A:52:ILE:HG22	0.74	1.83	5	6
1:A:78:LEU:HD12	1:B:71:MET:HG3	0.74	1.58	10	2
1:A:81:ALA:HB3	1:B:68:CYS:CA	0.74	2.12	9	1
1:A:70:ILE:HD13	1:B:79:HIS:O	0.74	1.82	3	1
1:A:21:ILE:HD11	1:A:58:LEU:CD1	0.74	2.13	6	4
1:A:71:MET:HG3	1:B:78:LEU:HD12	0.74	1.58	10	2
1:A:90:THR:HG22	1:A:114:ILE:CG1	0.74	2.13	15	2
1:A:40:VAL:CG1	1:A:70:ILE:HD13	0.74	2.12	2	1
1:A:22:ILE:HD11	1:A:96:VAL:CG2	0.74	2.13	2	1
1:B:22:ILE:HD11	1:B:96:VAL:CG2	0.74	2.13	2	1
1:B:48:LEU:O	1:B:52:ILE:HG22	0.74	1.83	5	6
1:A:63:LYS:CG	1:B:86:TRP:CD1	0.74	2.67	14	1
1:A:14:VAL:HG22	1:A:94:ARG:HB3	0.73	1.60	10	2
1:A:85:TRP:CZ3	1:B:62:PHE:O	0.73	2.40	1	1
1:B:14:VAL:HG22	1:B:94:ARG:HB3	0.73	1.60	10	2
1:A:22:ILE:HD11	1:A:107:CYS:SG	0.73	2.23	1	1
1:A:67:THR:HG23	1:A:108:THR:HG22	0.73	1.61	13	15
1:A:41:SER:OG	1:B:79:HIS:CB	0.73	2.36	6	1
1:A:79:HIS:CB	1:B:41:SER:OG	0.73	2.36	6	1
1:A:78:LEU:HD21	1:B:71:MET:CE	0.73	2.12	11	1
1:A:63:LYS:CD	1:B:86:TRP:HD1	0.73	1.96	14	1
1:A:86:TRP:HD1	1:B:63:LYS:CD	0.73	1.96	14	1
1:B:89:THR:HG23	1:B:90:THR:HG23	0.73	1.60	13	5
1:A:70:ILE:CG1	1:B:79:HIS:N	0.73	2.52	13	1
1:A:70:ILE:CG1	1:B:79:HIS:HB3	0.72	1.96	1	1
1:B:21:ILE:HD11	1:B:58:LEU:CD1	0.72	2.13	6	4
1:B:67:THR:HG23	1:B:108:THR:HG22	0.72	1.61	7	15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:68:CYS:C	1:B:80:THR:HG23	0.72	2.09	3	1
1:A:55:LEU:HD13	1:A:64:TYR:CB	0.72	2.15	12	3
1:B:68:CYS:C	1:B:69:ILE:HD12	0.72	2.09	7	4
1:A:67:THR:HG23	1:A:108:THR:CG2	0.72	2.14	15	14
1:A:63:LYS:CB	1:A:114:ILE:HD12	0.72	2.15	15	1
1:A:89:THR:HG23	1:A:90:THR:HG23	0.72	1.60	13	5
1:A:81:ALA:O	1:B:48:LEU:HD21	0.72	1.85	3	1
1:B:63:LYS:CB	1:B:114:ILE:HD12	0.72	2.15	15	1
1:B:67:THR:HG23	1:B:108:THR:CG2	0.71	2.15	10	14
1:A:68:CYS:C	1:A:69:ILE:HD12	0.71	2.09	7	4
1:A:79:HIS:N	1:B:70:ILE:CG1	0.71	2.52	13	1
1:A:86:TRP:CD1	1:B:63:LYS:HD2	0.71	2.20	14	1
1:B:22:ILE:HG21	1:B:109:VAL:HG21	0.71	1.63	10	1
1:A:71:MET:SD	1:B:78:LEU:CD2	0.71	2.79	11	1
1:A:81:ALA:CB	1:B:48:LEU:HD21	0.71	2.16	11	2
1:A:80:THR:HG23	1:B:68:CYS:C	0.71	2.09	3	1
1:A:80:THR:CA	1:B:68:CYS:O	0.71	2.39	3	1
1:B:55:LEU:HD13	1:B:64:TYR:CB	0.71	2.15	12	3
1:A:67:THR:HB	1:B:82:ALA:HA	0.71	1.62	9	2
1:A:56:THR:HG22	1:B:85:TRP:CE2	0.71	2.21	12	1
1:A:85:TRP:HZ3	1:B:62:PHE:CB	0.71	1.79	14	1
1:B:29:VAL:C	1:B:30:LEU:HD22	0.71	2.10	2	14
1:A:48:LEU:HD21	1:B:81:ALA:O	0.70	1.85	3	1
1:A:79:HIS:O	1:B:69:ILE:HA	0.70	1.87	10	3
1:A:29:VAL:C	1:A:30:LEU:HD22	0.70	2.10	2	14
1:A:80:THR:CA	1:B:69:ILE:CG1	0.70	2.64	9	2
1:A:68:CYS:O	1:B:80:THR:CA	0.70	2.39	3	1
1:B:97:ARG:HD3	1:B:106:ILE:HD12	0.70	1.63	9	4
1:A:66:VAL:CA	1:B:83:SER:O	0.70	2.39	1	1
1:A:83:SER:O	1:B:66:VAL:CA	0.70	2.39	1	1
1:A:78:LEU:HD12	1:B:71:MET:CG	0.70	2.17	8	3
1:A:63:LYS:HD2	1:B:86:TRP:CD1	0.70	2.20	14	1
1:A:83:SER:O	1:B:66:VAL:HG23	0.70	1.87	1	1
1:A:84:CYS:SG	1:B:65:VAL:HG11	0.70	2.26	4	1
1:A:21:ILE:HD11	1:A:58:LEU:HD13	0.70	1.62	12	5
1:A:71:MET:CG	1:B:78:LEU:HD12	0.70	2.17	8	3
1:A:82:ALA:HA	1:B:67:THR:HB	0.70	1.62	9	2
1:A:52:ILE:O	1:A:52:ILE:HD13	0.70	1.87	2	10
1:A:68:CYS:C	1:B:81:ALA:H	0.69	1.93	3	2
1:A:48:LEU:HD21	1:B:81:ALA:CB	0.69	2.16	11	2
1:A:66:VAL:HG23	1:B:83:SER:O	0.69	1.87	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:82:ALA:HA	1:B:48:LEU:HD21	0.69	1.60	3	1
1:A:97:ARG:HD3	1:A:106:ILE:HD12	0.69	1.63	9	4
1:A:81:ALA:HB3	1:B:68:CYS:O	0.69	1.88	11	1
1:B:40:VAL:HG12	1:B:70:ILE:HD13	0.69	1.65	5	2
1:A:85:TRP:CE2	1:B:56:THR:HG22	0.69	2.21	12	1
1:A:85:TRP:NE1	1:B:64:TYR:CE2	0.69	2.60	14	1
1:A:22:ILE:HG21	1:A:109:VAL:HG21	0.69	1.63	10	1
1:B:52:ILE:O	1:B:52:ILE:HD13	0.69	1.88	9	10
1:A:40:VAL:HG12	1:A:70:ILE:HD13	0.69	1.65	5	2
1:B:90:THR:HG22	1:B:114:ILE:O	0.69	1.88	2	1
1:A:68:CYS:O	1:B:81:ALA:HB3	0.69	1.88	11	1
1:A:64:TYR:CA	1:B:85:TRP:HB2	0.69	2.18	4	1
1:B:21:ILE:HD11	1:B:58:LEU:HD13	0.69	1.62	12	5
1:A:12:ALA:HB3	1:A:95:THR:O	0.68	1.88	1	4
1:A:79:HIS:O	1:B:69:ILE:C	0.68	2.35	9	1
1:B:12:ALA:HB3	1:B:95:THR:O	0.68	1.89	1	4
1:A:69:ILE:HA	1:B:79:HIS:O	0.68	1.87	10	3
1:A:64:TYR:CE2	1:B:85:TRP:NE1	0.68	2.60	14	1
1:A:77:GLY:O	1:B:72:GLN:N	0.68	2.26	9	3
1:A:67:THR:CA	1:B:82:ALA:CA	0.68	2.59	1	2
1:A:65:VAL:HG11	1:B:84:CYS:SG	0.68	2.26	4	1
1:A:82:ALA:CA	1:B:67:THR:CA	0.68	2.59	1	2
1:A:78:LEU:HD11	1:B:69:ILE:CG2	0.68	2.19	11	3
1:A:85:TRP:CD1	1:B:64:TYR:CD2	0.68	2.82	14	2
1:A:85:TRP:HB2	1:B:64:TYR:CA	0.68	2.18	4	1
1:B:29:VAL:HG11	1:B:47:CYS:CB	0.68	2.19	1	12
1:A:81:ALA:H	1:B:68:CYS:C	0.68	1.93	3	2
1:A:69:ILE:C	1:B:79:HIS:O	0.68	2.36	9	2
1:A:29:VAL:HG11	1:A:47:CYS:CB	0.68	2.19	1	12
1:A:90:THR:HG22	1:A:114:ILE:O	0.68	1.88	2	1
1:A:69:ILE:CG2	1:B:78:LEU:HD11	0.68	2.19	11	3
1:A:72:GLN:N	1:B:77:GLY:O	0.68	2.26	9	3
1:B:14:VAL:HG22	1:B:94:ARG:CB	0.67	2.19	10	3
1:A:85:TRP:HB3	1:B:63:LYS:HG3	0.67	1.64	11	1
1:A:29:VAL:HG21	1:A:47:CYS:HA	0.67	1.67	4	10
1:B:26:ILE:HD12	1:B:47:CYS:SG	0.67	2.30	12	5
1:A:78:LEU:CD2	1:B:71:MET:SD	0.67	2.79	11	1
1:A:64:TYR:CD2	1:B:85:TRP:CD1	0.67	2.82	14	2
1:A:14:VAL:HG22	1:A:94:ARG:CB	0.66	2.19	10	3
1:A:56:THR:HG22	1:A:64:TYR:CE2	0.66	2.25	14	2
1:B:113:ALA:O	1:B:114:ILE:HD13	0.66	1.90	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:ILE:HD12	1:A:47:CYS:SG	0.66	2.30	12	5
1:A:69:ILE:CG1	1:B:80:THR:CA	0.66	2.64	9	2
1:A:7:ALA:HB2	1:A:98:TRP:CE3	0.66	2.25	3	5
1:A:67:THR:HB	1:B:82:ALA:CA	0.66	2.20	10	4
1:A:63:LYS:HG3	1:B:85:TRP:HB3	0.66	1.64	11	1
1:B:29:VAL:HG21	1:B:47:CYS:HA	0.66	1.67	4	10
1:A:18:VAL:HG12	1:A:109:VAL:HG21	0.66	1.67	2	1
1:A:78:LEU:CD2	1:B:69:ILE:HG22	0.66	1.83	3	2
1:A:48:LEU:HD22	1:B:81:ALA:CB	0.66	2.19	13	2
1:A:80:THR:OG1	1:B:69:ILE:HG13	0.66	1.90	10	1
1:A:55:LEU:HD13	1:A:64:TYR:HB2	0.66	1.66	12	1
1:B:29:VAL:HG12	1:B:30:LEU:HD22	0.66	1.67	1	15
1:B:7:ALA:HB2	1:B:98:TRP:CE3	0.66	2.24	3	5
1:A:71:MET:HE3	1:B:78:LEU:HD13	0.66	1.67	10	1
1:A:65:VAL:HG11	1:A:110:PHE:CD2	0.66	2.26	2	3
1:A:68:CYS:O	1:B:80:THR:C	0.66	2.38	3	1
1:A:82:ALA:CA	1:B:67:THR:HB	0.66	2.20	11	4
1:A:78:LEU:HD13	1:B:71:MET:HE3	0.66	1.67	10	1
1:B:18:VAL:HG12	1:B:109:VAL:HG21	0.66	1.67	2	1
1:A:40:VAL:CG1	1:A:103:MET:HE1	0.66	2.21	11	1
1:B:52:ILE:C	1:B:52:ILE:HD13	0.66	2.16	12	3
1:B:56:THR:HG22	1:B:64:TYR:CE2	0.66	2.25	14	2
1:A:113:ALA:O	1:A:114:ILE:HD13	0.66	1.90	14	1
1:A:52:ILE:C	1:A:52:ILE:HD13	0.66	2.16	12	3
1:A:81:ALA:CB	1:B:48:LEU:HD22	0.66	2.19	13	2
1:A:22:ILE:HD12	1:A:107:CYS:SG	0.65	2.32	5	1
1:A:22:ILE:CD1	1:A:96:VAL:HG21	0.65	2.22	10	2
1:A:70:ILE:CG1	1:B:79:HIS:CA	0.65	2.73	13	1
1:A:79:HIS:CA	1:B:70:ILE:CG1	0.65	2.73	13	1
1:A:80:THR:C	1:B:68:CYS:O	0.65	2.38	3	1
1:B:22:ILE:HD12	1:B:107:CYS:SG	0.65	2.31	5	1
1:B:22:ILE:CD1	1:B:96:VAL:HG21	0.65	2.22	10	2
1:B:55:LEU:HD13	1:B:64:TYR:HB2	0.65	1.66	12	1
1:A:97:ARG:CD	1:A:106:ILE:HD12	0.65	2.21	4	3
1:A:66:VAL:O	1:B:82:ALA:CA	0.65	2.45	10	4
1:A:82:ALA:CA	1:B:66:VAL:O	0.65	2.45	10	4
1:A:63:LYS:CD	1:B:86:TRP:CD1	0.65	2.80	14	1
1:B:97:ARG:CD	1:B:106:ILE:HD12	0.64	2.21	4	3
1:A:78:LEU:HD22	1:B:78:LEU:HD22	0.64	1.69	10	1
1:B:37:GLU:CD	1:B:103:MET:HE1	0.64	2.17	15	2
1:A:29:VAL:HG12	1:A:30:LEU:HD22	0.64	1.67	1	15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:48:LEU:HD21	1:B:82:ALA:HA	0.64	1.60	3	1
1:B:40:VAL:CG1	1:B:103:MET:HE1	0.64	2.21	11	1
1:B:52:ILE:HG23	1:B:53:LYS:HD2	0.64	1.69	11	11
1:A:78:LEU:HG	1:B:70:ILE:C	0.64	2.17	3	1
1:A:78:LEU:HD13	1:B:78:LEU:HD22	0.64	1.68	15	1
1:A:65:VAL:HG13	1:B:84:CYS:CB	0.64	2.22	1	2
1:A:37:GLU:CD	1:A:103:MET:HE1	0.64	2.18	15	2
1:A:78:LEU:HD22	1:B:78:LEU:HD13	0.64	1.68	15	1
1:A:84:CYS:CB	1:B:65:VAL:HG13	0.64	2.22	1	2
1:B:78:LEU:HD13	1:B:79:HIS:N	0.64	2.08	9	4
1:A:70:ILE:C	1:B:78:LEU:HG	0.64	2.17	3	1
1:A:86:TRP:CD1	1:B:63:LYS:CD	0.64	2.80	14	1
1:B:65:VAL:HG11	1:B:110:PHE:CD2	0.64	2.26	2	3
1:A:82:ALA:C	1:B:66:VAL:O	0.64	2.41	10	4
1:A:70:ILE:HG12	1:B:79:HIS:CA	0.64	2.23	13	1
1:B:64:TYR:CE2	1:B:66:VAL:HG22	0.64	2.27	15	1
1:A:83:SER:O	1:B:66:VAL:CG2	0.64	2.46	1	1
1:A:66:VAL:CG2	1:B:83:SER:O	0.63	2.46	1	1
1:A:64:TYR:CE2	1:A:66:VAL:HG22	0.63	2.27	15	1
1:A:70:ILE:O	1:B:78:LEU:CA	0.63	2.47	8	2
1:A:63:LYS:HZ3	1:B:87:ASP:CG	0.63	1.82	1	1
1:A:65:VAL:HG23	1:A:110:PHE:CB	0.63	2.23	4	4
1:B:22:ILE:HD13	1:B:109:VAL:CG2	0.63	2.21	1	1
1:A:78:LEU:HD13	1:A:79:HIS:N	0.63	2.08	9	4
1:A:79:HIS:CA	1:B:70:ILE:HG12	0.63	2.23	13	1
1:B:7:ALA:HB1	1:B:98:TRP:CZ3	0.63	2.29	6	3
1:B:100:ASN:OD1	1:B:103:MET:HE2	0.63	1.94	6	1
1:A:63:LYS:HG3	1:B:86:TRP:HD1	0.63	1.54	11	1
1:A:86:TRP:HD1	1:B:63:LYS:HG3	0.63	1.54	11	1
1:A:78:LEU:CA	1:B:70:ILE:O	0.63	2.47	8	2
1:A:7:ALA:HB1	1:A:98:TRP:CZ3	0.63	2.28	6	3
1:A:66:VAL:O	1:B:82:ALA:C	0.62	2.41	10	4
1:B:65:VAL:HG23	1:B:110:PHE:CB	0.62	2.23	4	4
1:B:18:VAL:CG1	1:B:109:VAL:HG11	0.62	2.24	13	7
1:A:69:ILE:HG22	1:B:78:LEU:CG	0.62	2.24	3	2
1:A:78:LEU:CG	1:B:69:ILE:HG22	0.62	2.24	3	2
1:A:62:PHE:CB	1:B:85:TRP:HZ3	0.62	1.79	14	1
1:B:95:THR:OG1	1:B:106:ILE:HD11	0.62	1.94	12	7
1:A:100:ASN:OD1	1:A:103:MET:HE2	0.62	1.94	6	1
1:B:87:ASP:OD1	1:B:89:THR:HG22	0.62	1.95	10	1
1:A:76:ALA:HB1	1:B:76:ALA:HB1	0.62	1.71	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:89:THR:O	1:B:113:ALA:HB3	0.62	1.95	11	4
1:A:18:VAL:CG1	1:A:109:VAL:HG11	0.62	2.24	13	7
1:B:55:LEU:HD13	1:B:64:TYR:CG	0.62	2.30	6	2
1:A:52:ILE:HG23	1:A:53:LYS:HD2	0.62	1.69	11	11
1:A:95:THR:OG1	1:A:106:ILE:HD11	0.62	1.94	12	7
1:A:22:ILE:HD13	1:A:109:VAL:CG2	0.61	2.21	1	1
1:A:90:THR:HG22	1:A:112:LEU:HB3	0.61	1.70	5	1
1:A:55:LEU:HD13	1:A:64:TYR:CG	0.61	2.30	6	2
1:B:5:ASP:CG	1:B:8:VAL:HG13	0.61	2.20	11	4
1:B:90:THR:HG22	1:B:112:LEU:HB3	0.61	1.70	5	1
1:A:5:ASP:CG	1:A:8:VAL:HG13	0.61	2.20	11	4
1:A:63:LYS:HE3	1:B:87:ASP:HB2	0.61	1.71	10	2
1:A:55:LEU:HD12	1:A:64:TYR:CE1	0.61	2.31	15	1
1:A:89:THR:O	1:A:113:ALA:HB3	0.61	1.94	11	4
1:A:44:THR:CG2	1:B:81:ALA:HB3	0.61	2.09	3	1
1:B:55:LEU:HD12	1:B:64:TYR:CE1	0.61	2.31	15	1
1:A:69:ILE:HG22	1:B:78:LEU:CD2	0.61	1.83	3	2
1:A:69:ILE:HG13	1:B:80:THR:OG1	0.61	1.90	10	1
1:A:87:ASP:OD1	1:A:89:THR:HG22	0.61	1.95	10	1
1:A:85:TRP:CB	1:B:63:LYS:CA	0.61	2.76	14	1
1:A:81:ALA:C	1:B:67:THR:HG1	0.61	1.94	10	1
1:B:4:VAL:HG13	1:B:100:ASN:O	0.61	1.96	10	7
1:A:87:ASP:HB2	1:B:63:LYS:HE3	0.61	1.71	10	2
1:B:5:ASP:OD2	1:B:8:VAL:HG13	0.60	1.97	12	1
1:A:69:ILE:CA	1:B:79:HIS:O	0.60	2.50	9	3
1:A:81:ALA:HB3	1:B:68:CYS:CB	0.60	2.27	8	2
1:A:85:TRP:NE1	1:B:64:TYR:CD2	0.60	2.69	14	1
1:A:82:ALA:C	1:B:48:LEU:CD2	0.60	2.68	3	1
1:A:79:HIS:O	1:B:69:ILE:CA	0.60	2.49	9	2
1:A:69:ILE:HG23	1:B:79:HIS:C	0.60	2.22	9	1
1:A:64:TYR:CD2	1:B:85:TRP:NE1	0.60	2.69	14	1
1:A:78:LEU:HD22	1:B:78:LEU:HD11	0.60	1.72	15	1
1:A:85:TRP:CB	1:B:64:TYR:O	0.60	2.49	4	1
1:B:113:ALA:C	1:B:114:ILE:HD12	0.60	2.22	12	2
1:A:4:VAL:HG13	1:A:100:ASN:O	0.60	1.96	10	7
1:A:62:PHE:CD2	1:B:85:TRP:CH2	0.60	2.89	4	1
1:A:113:ALA:C	1:A:114:ILE:HD12	0.60	2.22	12	2
1:A:79:HIS:C	1:B:69:ILE:HG23	0.60	2.22	9	1
1:A:77:GLY:C	1:B:72:GLN:H	0.59	2.05	9	1
1:A:5:ASP:OD2	1:A:8:VAL:HG13	0.59	1.97	12	1
1:A:78:LEU:C	1:B:70:ILE:O	0.59	2.45	3	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:TYR:O	1:B:85:TRP:CB	0.59	2.49	4	1
1:B:22:ILE:HG21	1:B:109:VAL:CG2	0.59	2.27	10	2
1:A:22:ILE:HG21	1:A:109:VAL:CG2	0.59	2.28	10	2
1:A:67:THR:CB	1:B:82:ALA:CA	0.59	2.80	10	4
1:B:18:VAL:CG1	1:B:109:VAL:HG21	0.59	2.28	2	1
1:A:66:VAL:C	1:B:83:SER:H	0.59	1.95	11	2
1:A:18:VAL:CG1	1:A:109:VAL:HG21	0.59	2.28	2	1
1:A:83:SER:O	1:B:65:VAL:C	0.59	2.45	11	3
1:A:29:VAL:HG21	1:A:47:CYS:CA	0.59	2.28	2	10
1:A:68:CYS:CB	1:B:81:ALA:HB3	0.59	2.27	8	2
1:A:18:VAL:HG11	1:A:109:VAL:HG11	0.59	1.74	14	1
1:A:63:LYS:CA	1:B:85:TRP:HB3	0.59	2.18	14	1
1:A:78:LEU:HD11	1:B:78:LEU:HD22	0.59	1.72	15	1
1:A:82:ALA:CA	1:B:67:THR:CB	0.59	2.81	9	4
1:A:86:TRP:HZ2	1:B:112:LEU:HB2	0.58	1.57	4	1
1:A:65:VAL:HG13	1:B:84:CYS:HB3	0.58	1.76	1	1
1:B:29:VAL:HG21	1:B:47:CYS:CA	0.58	2.28	2	10
1:B:29:VAL:HG13	1:B:43:TRP:O	0.58	1.98	11	8
1:A:72:GLN:H	1:B:77:GLY:C	0.58	2.05	9	1
1:A:29:VAL:HG13	1:A:43:TRP:O	0.58	1.98	11	8
1:A:65:VAL:C	1:B:83:SER:O	0.58	2.45	11	3
1:A:70:ILE:HD12	1:A:70:ILE:O	0.58	1.98	8	2
1:A:63:LYS:CA	1:B:85:TRP:CB	0.58	2.76	14	1
1:A:52:ILE:HD13	1:A:52:ILE:O	0.58	1.99	15	1
1:B:52:ILE:HD13	1:B:52:ILE:O	0.58	1.99	15	1
1:A:80:THR:HG22	1:B:68:CYS:O	0.58	1.94	3	1
1:A:112:LEU:HB2	1:B:86:TRP:HZ2	0.58	1.57	4	1
1:A:79:HIS:O	1:B:69:ILE:CG2	0.58	2.52	9	1
1:A:22:ILE:O	1:A:26:ILE:HD12	0.58	1.99	11	2
1:A:85:TRP:CZ2	1:B:64:TYR:CE2	0.58	2.91	14	1
1:B:51:CYS:HB3	1:B:66:VAL:HG11	0.58	1.76	3	7
1:B:40:VAL:HG13	1:B:103:MET:SD	0.58	2.39	6	1
1:A:85:TRP:HB3	1:B:63:LYS:CA	0.58	2.18	14	1
1:A:70:ILE:CD1	1:B:79:HIS:O	0.58	2.48	3	1
1:A:64:TYR:CE2	1:B:85:TRP:CZ2	0.58	2.91	14	1
1:A:78:LEU:HD23	1:B:78:LEU:CG	0.57	2.16	1	1
1:A:79:HIS:O	1:B:69:ILE:HG23	0.57	1.99	9	1
1:A:68:CYS:SG	1:B:81:ALA:HB1	0.57	2.36	1	1
1:B:52:ILE:HD13	1:B:52:ILE:C	0.57	2.24	11	10
1:A:112:LEU:HB2	1:B:86:TRP:CZ2	0.57	2.34	4	1
1:B:22:ILE:O	1:B:26:ILE:HD12	0.57	1.99	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:41:SER:O	1:A:44:THR:HG22	0.57	1.99	5	4
1:A:40:VAL:HG13	1:A:103:MET:SD	0.57	2.39	6	1
1:A:69:ILE:HG23	1:B:78:LEU:HD11	0.57	1.76	13	1
1:A:53:LYS:O	1:A:57:ALA:HB2	0.57	1.99	15	1
1:A:82:ALA:HB2	1:B:67:THR:HG1	0.57	1.57	1	1
1:A:85:TRP:HD1	1:B:52:ILE:CG1	0.57	2.12	12	1
1:B:70:ILE:HD12	1:B:70:ILE:O	0.57	1.98	8	2
1:A:81:ALA:CB	1:B:68:CYS:O	0.57	2.53	11	2
1:B:18:VAL:HG11	1:B:109:VAL:HG11	0.57	1.74	14	1
1:A:66:VAL:HB	1:B:83:SER:HB3	0.57	1.77	1	3
1:A:52:ILE:HD13	1:A:52:ILE:C	0.57	2.24	11	10
1:A:52:ILE:CG1	1:B:85:TRP:HD1	0.57	2.12	12	1
1:B:53:LYS:O	1:B:57:ALA:HB2	0.57	1.99	15	1
1:A:84:CYS:HB3	1:B:65:VAL:HG13	0.57	1.76	1	1
1:A:69:ILE:HG23	1:B:80:THR:OG1	0.57	2.00	3	1
1:A:85:TRP:CH2	1:B:62:PHE:CD2	0.57	2.89	4	1
1:A:63:LYS:HD2	1:A:114:ILE:HD12	0.57	1.77	11	1
1:B:22:ILE:HD11	1:B:109:VAL:HG21	0.57	1.76	14	2
1:A:65:VAL:HG23	1:A:110:PHE:HB3	0.57	1.77	4	3
1:A:83:SER:HB3	1:B:66:VAL:HB	0.57	1.77	1	3
1:A:80:THR:OG1	1:B:69:ILE:CB	0.57	2.53	3	1
1:A:56:THR:HG22	1:A:64:TYR:OH	0.57	2.00	5	1
1:A:51:CYS:HB3	1:A:66:VAL:HG11	0.56	1.76	3	6
1:B:55:LEU:HD13	1:B:64:TYR:HB3	0.56	1.77	10	2
1:B:7:ALA:O	1:B:8:VAL:HG23	0.56	2.01	10	8
1:A:86:TRP:CZ2	1:B:112:LEU:HB2	0.56	2.34	4	1
1:A:69:ILE:HG23	1:B:79:HIS:O	0.56	1.99	9	1
1:B:56:THR:HG22	1:B:64:TYR:OH	0.56	2.00	5	1
1:A:69:ILE:CG2	1:B:79:HIS:O	0.56	2.52	9	1
1:A:68:CYS:O	1:B:81:ALA:CB	0.56	2.53	11	2
1:B:19:SER:HA	1:B:22:ILE:HD12	0.56	1.77	11	1
1:A:78:LEU:HD11	1:B:69:ILE:HG23	0.56	1.76	13	1
1:A:22:ILE:HG21	1:A:107:CYS:HB2	0.56	1.78	14	1
1:B:97:ARG:NE	1:B:106:ILE:HD12	0.56	2.16	4	1
1:A:81:ALA:HB1	1:B:68:CYS:SG	0.56	2.36	1	1
1:A:7:ALA:O	1:A:8:VAL:HG23	0.56	2.01	10	8
1:A:97:ARG:NE	1:A:106:ILE:HD12	0.56	2.16	4	1
1:B:41:SER:O	1:B:44:THR:HG22	0.56	1.99	5	4
1:B:65:VAL:HG23	1:B:110:PHE:HB3	0.56	1.77	4	3
1:A:22:ILE:HD11	1:A:109:VAL:HG21	0.56	1.76	14	2
1:B:52:ILE:HD12	1:B:53:LYS:NZ	0.56	2.16	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:69:ILE:CB	1:B:80:THR:OG1	0.56	2.53	3	1
1:B:7:ALA:C	1:B:8:VAL:HG23	0.56	2.26	10	10
1:A:86:TRP:CD1	1:B:63:LYS:HG3	0.56	2.35	11	1
1:A:7:ALA:C	1:A:8:VAL:HG23	0.56	2.26	3	10
1:A:80:THR:OG1	1:B:69:ILE:HG23	0.56	2.00	3	1
1:A:63:LYS:HG3	1:B:86:TRP:CD1	0.56	2.35	11	1
1:A:67:THR:HA	1:B:81:ALA:C	0.55	2.26	10	2
1:B:22:ILE:HG21	1:B:107:CYS:HB2	0.55	1.78	14	1
1:A:81:ALA:HB3	1:B:44:THR:CG2	0.55	2.09	3	1
1:A:87:ASP:OD2	1:B:63:LYS:CE	0.55	2.54	3	1
1:B:71:MET:O	1:B:103:MET:HE2	0.55	2.01	4	1
1:B:14:VAL:HG12	1:B:94:ARG:NH1	0.55	2.17	3	1
1:A:81:ALA:C	1:B:67:THR:HA	0.55	2.26	10	2
1:A:82:ALA:CB	1:B:67:THR:CA	0.55	2.84	1	1
1:A:63:LYS:CE	1:B:87:ASP:OD2	0.55	2.54	3	1
1:A:90:THR:HG21	1:B:63:LYS:NZ	0.55	2.16	14	1
1:A:71:MET:C	1:A:103:MET:HE2	0.55	2.27	4	1
1:A:67:THR:CA	1:B:82:ALA:CB	0.55	2.84	1	1
1:A:78:LEU:CG	1:B:78:LEU:HD23	0.55	2.16	1	1
1:A:68:CYS:O	1:B:80:THR:HG22	0.55	1.94	3	1
1:B:37:GLU:OE1	1:B:103:MET:HE1	0.55	2.02	15	2
1:B:71:MET:C	1:B:103:MET:HE2	0.55	2.27	4	1
1:B:4:VAL:HG13	1:B:100:ASN:C	0.55	2.27	5	3
1:A:52:ILE:HD12	1:A:53:LYS:NZ	0.55	2.16	12	1
1:A:55:LEU:HD13	1:A:64:TYR:HB3	0.54	1.77	10	2
1:A:71:MET:O	1:A:103:MET:HE2	0.54	2.01	4	1
1:A:4:VAL:HG13	1:A:100:ASN:C	0.54	2.27	5	3
1:B:63:LYS:HD2	1:B:114:ILE:HD12	0.54	1.77	11	1
1:A:78:LEU:C	1:A:78:LEU:HD13	0.54	2.28	1	2
1:A:70:ILE:O	1:B:78:LEU:C	0.54	2.45	3	1
1:A:83:SER:H	1:B:66:VAL:C	0.54	1.95	11	1
1:B:90:THR:HG22	1:B:114:ILE:HG12	0.54	1.79	15	2
1:A:63:LYS:NZ	1:B:90:THR:HG21	0.54	2.15	14	1
1:B:55:LEU:N	1:B:55:LEU:HD23	0.54	2.17	15	1
1:B:71:MET:HE2	1:B:97:ARG:NH1	0.54	2.18	15	1
1:A:69:ILE:O	1:A:106:ILE:HG22	0.54	2.03	12	9
1:A:15:ALA:HB2	1:A:94:ARG:NH1	0.54	2.17	3	1
1:A:64:TYR:CE1	1:A:109:VAL:HG13	0.54	2.38	15	1
1:A:85:TRP:CE2	1:B:64:TYR:OH	0.54	2.61	7	1
1:A:55:LEU:N	1:A:55:LEU:HD23	0.54	2.17	15	1
1:A:79:HIS:O	1:B:70:ILE:CG1	0.54	2.54	3	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:TYR:N	1:B:85:TRP:CD2	0.54	2.76	4	1
1:B:78:LEU:HD13	1:B:78:LEU:C	0.54	2.28	1	2
1:A:87:ASP:CG	1:B:63:LYS:HD2	0.54	2.28	3	2
1:A:40:VAL:HG11	1:A:103:MET:HE1	0.54	1.80	7	1
1:A:71:MET:HE2	1:A:97:ARG:NH1	0.54	2.18	15	1
1:A:14:VAL:HG12	1:A:94:ARG:NH1	0.53	2.17	3	1
1:A:19:SER:HA	1:A:22:ILE:HD12	0.53	1.77	11	1
1:A:22:ILE:HG21	1:A:109:VAL:HG22	0.53	1.80	4	2
1:B:29:VAL:HG22	1:B:46:SER:HB3	0.53	1.81	14	4
1:A:37:GLU:OE1	1:A:103:MET:HE1	0.53	2.02	15	2
1:B:64:TYR:CE1	1:B:109:VAL:HG13	0.53	2.38	15	1
1:A:79:HIS:O	1:B:70:ILE:CD1	0.53	2.48	3	1
1:B:12:ALA:HB1	1:B:94:ARG:CG	0.53	2.34	4	1
1:A:90:THR:HG22	1:A:114:ILE:HG12	0.53	1.79	11	2
1:B:69:ILE:O	1:B:106:ILE:HG22	0.53	2.03	12	10
1:A:48:LEU:HD12	1:A:66:VAL:HG12	0.53	1.81	12	3
1:A:68:CYS:O	1:B:80:THR:HA	0.53	2.04	3	2
1:A:69:ILE:CG2	1:B:80:THR:OG1	0.53	2.57	3	1
1:B:22:ILE:HG21	1:B:109:VAL:HG22	0.53	1.79	4	2
1:A:67:THR:HG1	1:B:82:ALA:HB2	0.53	1.59	1	1
1:A:97:ARG:HG2	1:A:106:ILE:HD12	0.53	1.80	1	1
1:A:80:THR:OG1	1:B:69:ILE:CG2	0.53	2.57	3	1
1:A:66:VAL:HG13	1:A:109:VAL:HG13	0.53	1.82	11	1
1:A:56:THR:HG21	1:B:85:TRP:NE1	0.53	2.19	15	1
1:A:79:HIS:CA	1:B:70:ILE:HG13	0.52	2.34	1	1
1:B:49:GLU:O	1:B:53:LYS:CG	0.52	2.58	5	3
1:A:74:ASN:O	1:A:76:ALA:N	0.52	2.42	3	2
1:B:15:ALA:HB2	1:B:94:ARG:NH1	0.52	2.17	3	1
1:A:79:HIS:ND1	1:B:70:ILE:HD11	0.52	2.19	13	1
1:A:83:SER:O	1:B:66:VAL:HB	0.52	2.05	1	1
1:A:22:ILE:HG22	1:A:26:ILE:CD1	0.52	2.35	11	1
1:A:85:TRP:NE1	1:B:56:THR:HG21	0.52	2.19	15	1
1:A:56:THR:HB	1:B:85:TRP:HZ2	0.52	1.65	12	1
1:B:97:ARG:HG2	1:B:106:ILE:HD12	0.52	1.80	1	1
1:A:85:TRP:HH2	1:B:62:PHE:CD2	0.52	2.15	4	1
1:A:12:ALA:HB1	1:A:94:ARG:CG	0.52	2.34	4	1
1:A:51:CYS:SG	1:A:66:VAL:HG11	0.52	2.45	11	4
1:B:22:ILE:HG22	1:B:26:ILE:CD1	0.52	2.35	11	1
1:B:74:ASN:O	1:B:76:ALA:N	0.52	2.42	3	2
1:A:65:VAL:CG1	1:B:84:CYS:CA	0.52	2.76	4	1
1:A:72:GLN:CB	1:B:77:GLY:CA	0.52	2.42	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:22:ILE:HD12	1:A:96:VAL:HG21	0.52	1.82	10	1
1:A:22:ILE:HD11	1:A:109:VAL:CG2	0.52	2.35	11	2
1:A:26:ILE:HD12	1:A:47:CYS:HG	0.52	1.65	12	1
1:A:85:TRP:HZ2	1:B:56:THR:HB	0.52	1.65	12	1
1:A:65:VAL:HG23	1:B:83:SER:O	0.52	2.05	15	1
1:A:64:TYR:OH	1:B:85:TRP:CE2	0.52	2.61	7	1
1:A:70:ILE:HD11	1:B:79:HIS:ND1	0.52	2.19	13	1
1:A:85:TRP:HE3	1:B:63:LYS:N	0.52	2.02	14	1
1:A:83:SER:O	1:B:65:VAL:HG23	0.52	2.05	15	1
1:B:48:LEU:HD12	1:B:66:VAL:HG12	0.52	1.82	12	3
1:B:22:ILE:HD11	1:B:109:VAL:CG2	0.52	2.35	11	2
1:A:63:LYS:HD2	1:B:87:ASP:CG	0.52	2.28	3	2
1:A:82:ALA:HA	1:B:48:LEU:CG	0.52	2.35	3	1
1:B:26:ILE:HG23	1:B:30:LEU:HD23	0.52	1.82	15	4
1:A:77:GLY:CA	1:B:72:GLN:CB	0.51	2.42	9	1
1:B:51:CYS:SG	1:B:66:VAL:HG11	0.51	2.44	11	4
1:B:30:LEU:HD13	1:B:43:TRP:CD1	0.51	2.41	12	9
1:A:48:LEU:CG	1:B:82:ALA:HA	0.51	2.35	3	1
1:A:85:TRP:N	1:B:64:TYR:O	0.51	2.44	4	1
1:A:49:GLU:O	1:A:53:LYS:CG	0.51	2.58	5	3
1:B:48:LEU:CD1	1:B:66:VAL:HG12	0.51	2.36	12	2
1:A:26:ILE:HG23	1:A:30:LEU:HD23	0.51	1.82	15	4
1:A:52:ILE:HD12	1:A:53:LYS:HE3	0.51	1.82	5	2
1:A:66:VAL:HB	1:B:83:SER:O	0.51	2.05	1	1
1:A:80:THR:HA	1:B:68:CYS:O	0.51	2.04	3	2
1:A:22:ILE:HD11	1:A:51:CYS:SG	0.51	2.46	5	1
1:A:54:ARG:NH1	1:A:58:LEU:HD11	0.51	2.21	13	1
1:A:70:ILE:HG13	1:B:79:HIS:CA	0.51	2.34	1	1
1:B:52:ILE:HD12	1:B:53:LYS:HE3	0.51	1.82	5	2
1:A:78:LEU:O	1:A:78:LEU:HD23	0.51	2.06	2	1
1:A:69:ILE:HD12	1:A:69:ILE:N	0.51	2.20	5	6
1:B:30:LEU:CD1	1:B:43:TRP:CE3	0.51	2.94	10	6
1:A:64:TYR:O	1:B:85:TRP:N	0.51	2.44	4	1
1:A:84:CYS:CA	1:B:65:VAL:CG1	0.51	2.76	4	1
1:B:5:ASP:OD1	1:B:8:VAL:HG22	0.51	2.06	8	2
1:A:85:TRP:CE3	1:B:62:PHE:CE2	0.51	2.98	11	1
1:A:85:TRP:CD2	1:B:64:TYR:N	0.51	2.76	4	1
1:A:30:LEU:CD1	1:A:43:TRP:CE3	0.51	2.94	10	6
1:B:18:VAL:HG13	1:B:55:LEU:HD11	0.51	1.83	2	1
1:A:5:ASP:OD1	1:A:8:VAL:HG13	0.51	2.06	8	2
1:A:86:TRP:NE1	1:B:62:PHE:HE2	0.51	1.93	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:VAL:HG22	1:A:46:SER:HB3	0.51	1.80	14	3
1:B:26:ILE:HG21	1:B:98:TRP:CG	0.51	2.40	11	1
1:B:66:VAL:HG13	1:B:109:VAL:HG13	0.51	1.82	11	1
1:A:44:THR:HG23	1:A:68:CYS:SG	0.50	2.46	3	3
1:B:78:LEU:O	1:B:78:LEU:HD23	0.50	2.06	2	1
1:A:22:ILE:HD12	1:A:22:ILE:C	0.50	2.32	4	1
1:B:69:ILE:HD12	1:B:69:ILE:N	0.50	2.21	5	5
1:B:40:VAL:HG11	1:B:103:MET:HE1	0.50	1.80	7	1
1:A:5:ASP:OD1	1:A:8:VAL:HG22	0.50	2.06	8	2
1:A:26:ILE:HG21	1:A:98:TRP:CG	0.50	2.40	11	1
1:A:67:THR:CG2	1:A:108:THR:HG22	0.50	2.36	13	1
1:B:44:THR:HG23	1:B:68:CYS:SG	0.50	2.46	3	3
1:A:70:ILE:CG1	1:B:79:HIS:O	0.50	2.58	15	3
1:A:72:GLN:HA	1:A:103:MET:HE3	0.50	1.83	3	1
1:A:48:LEU:CD1	1:A:66:VAL:HG12	0.50	2.36	12	2
1:B:54:ARG:NH1	1:B:58:LEU:HD11	0.50	2.21	13	1
1:A:30:LEU:HD13	1:A:43:TRP:CD1	0.50	2.41	12	7
1:A:85:TRP:CZ3	1:B:62:PHE:HA	0.50	2.41	14	1
1:B:22:ILE:HD11	1:B:51:CYS:SG	0.50	2.46	5	1
1:B:5:ASP:OD1	1:B:8:VAL:HG13	0.50	2.06	8	2
1:B:78:LEU:HD23	1:B:78:LEU:C	0.50	2.31	2	1
1:A:22:ILE:HD12	1:A:23:LYS:N	0.50	2.21	4	1
1:B:22:ILE:C	1:B:22:ILE:HD12	0.50	2.32	4	1
1:A:85:TRP:HH2	1:B:62:PHE:CZ	0.50	2.22	6	1
1:B:22:ILE:HD12	1:B:23:LYS:N	0.50	2.21	4	1
1:A:18:VAL:HG13	1:A:55:LEU:HD11	0.50	1.83	2	1
1:A:78:LEU:HD23	1:A:78:LEU:C	0.50	2.31	2	1
1:B:72:GLN:HA	1:B:103:MET:HE3	0.50	1.84	3	1
1:B:22:ILE:HD12	1:B:96:VAL:HG21	0.50	1.82	10	1
1:A:85:TRP:CE3	1:A:86:TRP:CD1	0.50	3.00	12	1
1:B:85:TRP:CE3	1:B:86:TRP:CD1	0.50	3.00	12	1
1:B:40:VAL:O	1:B:70:ILE:HG21	0.49	2.07	2	3
1:A:62:PHE:CE2	1:B:85:TRP:CE3	0.49	2.98	11	1
1:A:5:ASP:CG	1:A:8:VAL:HG22	0.49	2.32	12	1
1:A:49:GLU:HA	1:A:52:ILE:HG22	0.49	1.85	2	9
1:A:48:LEU:CD2	1:B:82:ALA:C	0.49	2.68	3	1
1:A:78:LEU:CD1	1:B:69:ILE:CG2	0.49	2.89	11	1
1:A:70:ILE:HG13	1:B:79:HIS:O	0.49	2.07	15	2
1:A:62:PHE:CZ	1:B:85:TRP:HH2	0.49	2.22	6	1
1:A:66:VAL:HG23	1:B:83:SER:HB3	0.49	1.84	15	1
1:B:49:GLU:HA	1:B:52:ILE:HG22	0.49	1.84	2	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:70:ILE:HG12	1:B:79:HIS:O	0.49	2.08	13	2
1:B:51:CYS:CB	1:B:66:VAL:HG11	0.49	2.38	2	3
1:A:49:GLU:O	1:A:53:LYS:HG2	0.49	2.08	10	2
1:A:114:ILE:C	1:B:86:TRP:CE2	0.49	2.90	14	1
1:A:84:CYS:CB	1:B:65:VAL:CG1	0.49	2.89	1	1
1:A:51:CYS:CB	1:A:66:VAL:HG11	0.49	2.38	2	3
1:A:64:TYR:HB2	1:B:85:TRP:CD1	0.49	2.42	4	1
1:B:18:VAL:HG21	1:B:64:TYR:CE1	0.49	2.43	6	1
1:A:114:ILE:HD13	1:B:114:ILE:HD13	0.49	1.85	11	1
1:B:8:VAL:HG23	1:B:99:GLU:CB	0.49	2.38	5	1
1:B:52:ILE:CD1	1:B:52:ILE:C	0.49	2.86	12	3
1:A:85:TRP:CD1	1:B:64:TYR:HB2	0.49	2.42	4	1
1:A:85:TRP:HZ3	1:B:62:PHE:CE2	0.49	2.25	6	2
1:B:67:THR:CG2	1:B:108:THR:HG22	0.49	2.36	13	1
1:A:79:HIS:O	1:B:70:ILE:HG12	0.49	2.08	13	2
1:A:18:VAL:HG21	1:A:64:TYR:CE1	0.49	2.43	6	1
1:A:29:VAL:HG21	1:A:47:CYS:N	0.49	2.22	12	7
1:A:81:ALA:HB3	1:B:68:CYS:N	0.49	2.23	9	1
1:B:5:ASP:CG	1:B:8:VAL:HG22	0.48	2.33	12	1
1:A:78:LEU:HD13	1:B:78:LEU:HD13	0.48	1.85	15	1
1:A:112:LEU:CD1	1:A:112:LEU:N	0.48	2.76	15	9
1:A:62:PHE:CE1	1:B:85:TRP:CH2	0.48	3.02	6	1
1:A:69:ILE:CG2	1:B:78:LEU:CD1	0.48	2.89	11	1
1:B:18:VAL:HG13	1:B:55:LEU:CD2	0.48	2.33	12	1
1:A:40:VAL:O	1:A:70:ILE:HG21	0.48	2.08	2	4
1:B:112:LEU:CD1	1:B:112:LEU:N	0.48	2.76	15	7
1:B:49:GLU:O	1:B:53:LYS:HG2	0.48	2.08	10	2
1:B:29:VAL:HG21	1:B:47:CYS:N	0.48	2.22	12	7
1:A:86:TRP:CE2	1:B:114:ILE:C	0.48	2.90	14	1
1:B:78:LEU:HD23	1:B:78:LEU:O	0.48	2.09	8	1
1:A:6:PRO:O	1:A:7:ALA:HB2	0.48	2.09	6	2
1:A:55:LEU:HD13	1:A:64:TYR:CD1	0.48	2.44	9	1
1:A:68:CYS:N	1:B:81:ALA:HB3	0.48	2.23	9	1
1:A:78:LEU:CD2	1:B:78:LEU:HG	0.48	2.38	11	1
1:B:69:ILE:N	1:B:69:ILE:HD12	0.48	2.24	11	1
1:A:8:VAL:HG23	1:A:99:GLU:CB	0.48	2.38	5	1
1:A:85:TRP:CH2	1:B:62:PHE:CE1	0.48	3.01	6	1
1:A:68:CYS:O	1:B:81:ALA:CA	0.48	2.62	15	1
1:A:79:HIS:O	1:B:70:ILE:HG13	0.48	2.08	15	1
1:A:78:LEU:HD23	1:A:78:LEU:O	0.48	2.09	8	1
1:B:35:TYR:OH	1:B:103:MET:HE3	0.47	2.09	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:87:ASP:CB	1:B:63:LYS:HE3	0.47	2.39	10	1
1:A:77:GLY:O	1:B:72:GLN:HB2	0.47	2.09	3	1
1:B:55:LEU:HD13	1:B:64:TYR:CD1	0.47	2.44	9	2
1:A:52:ILE:HD12	1:A:53:LYS:HE2	0.47	1.86	11	1
1:A:70:ILE:CD1	1:B:80:THR:N	0.47	2.77	3	1
1:B:55:LEU:HD22	1:B:64:TYR:CZ	0.47	2.44	9	1
1:A:93:SER:CB	1:A:110:PHE:CD1	0.47	2.97	10	2
1:A:65:VAL:HG11	1:A:110:PHE:CE2	0.47	2.45	2	1
1:B:65:VAL:HG11	1:B:110:PHE:CE2	0.47	2.45	2	1
1:B:52:ILE:HD12	1:B:53:LYS:HE2	0.47	1.86	11	1
1:A:81:ALA:CA	1:B:68:CYS:O	0.47	2.62	15	1
1:A:84:CYS:HA	1:B:65:VAL:HA	0.47	1.87	1	1
1:A:72:GLN:HB2	1:B:77:GLY:O	0.47	2.09	3	1
1:A:11:ALA:O	1:A:12:ALA:HB2	0.47	2.10	5	2
1:B:93:SER:CB	1:B:110:PHE:CD1	0.47	2.97	10	2
1:A:52:ILE:HG12	1:B:85:TRP:HD1	0.47	1.69	12	1
1:A:72:GLN:O	1:A:76:ALA:HB3	0.47	2.10	1	1
1:A:52:ILE:CD1	1:A:52:ILE:C	0.47	2.86	12	3
1:B:6:PRO:O	1:B:7:ALA:HB2	0.47	2.09	6	2
1:B:8:VAL:HG23	1:B:99:GLU:HB2	0.47	1.87	13	2
1:A:78:LEU:HG	1:B:78:LEU:CD2	0.47	2.38	11	1
1:A:85:TRP:HD1	1:B:52:ILE:HG12	0.47	1.69	12	1
1:A:76:ALA:CB	1:B:76:ALA:HB1	0.47	2.39	15	1
1:A:21:ILE:HG23	1:A:54:ARG:HG2	0.47	1.87	12	2
1:A:8:VAL:HG23	1:A:99:GLU:HB2	0.47	1.87	13	2
1:A:62:PHE:HE2	1:B:86:TRP:NE1	0.47	1.93	11	1
1:A:62:PHE:HA	1:B:85:TRP:CZ3	0.47	2.41	14	1
1:A:85:TRP:CE2	1:B:62:PHE:O	0.47	2.63	14	1
1:A:78:LEU:CD2	1:B:78:LEU:HD13	0.47	2.39	15	1
1:A:83:SER:HB3	1:B:66:VAL:HG23	0.47	1.84	15	1
1:A:17:ASP:OD2	1:A:18:VAL:HG23	0.47	2.10	10	1
1:B:21:ILE:HG23	1:B:54:ARG:HG2	0.47	1.87	12	2
1:B:96:VAL:HG12	1:B:98:TRP:CZ3	0.47	2.45	1	2
1:B:8:VAL:HG23	1:B:99:GLU:HB3	0.46	1.87	5	1
1:A:78:LEU:HD13	1:A:78:LEU:C	0.46	2.33	9	1
1:B:17:ASP:OD2	1:B:18:VAL:HG23	0.46	2.10	10	1
1:A:51:CYS:HB3	1:A:66:VAL:HG21	0.46	1.87	11	1
1:A:35:TYR:OH	1:A:103:MET:HE3	0.46	2.09	8	1
1:A:55:LEU:HD22	1:A:64:TYR:CZ	0.46	2.44	9	1
1:A:52:ILE:HG12	1:B:85:TRP:CD1	0.46	2.45	12	1
1:B:78:LEU:C	1:B:78:LEU:HD13	0.46	2.35	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:ILE:CG2	1:A:98:TRP:CD1	0.46	2.98	4	5
1:B:11:ALA:O	1:B:12:ALA:HB2	0.46	2.10	5	1
1:A:7:ALA:CB	1:A:98:TRP:CZ3	0.46	2.98	14	4
1:A:64:TYR:HD2	1:B:85:TRP:CD1	0.46	2.28	14	1
1:A:55:LEU:N	1:A:55:LEU:CD2	0.46	2.79	15	1
1:A:96:VAL:HG12	1:A:98:TRP:CZ3	0.46	2.45	1	2
1:A:65:VAL:CG1	1:B:84:CYS:CB	0.46	2.89	1	1
1:B:72:GLN:O	1:B:76:ALA:HB3	0.46	2.10	1	1
1:B:78:LEU:HD22	1:B:79:HIS:N	0.46	2.26	1	1
1:B:11:ALA:O	1:B:12:ALA:HB3	0.46	2.11	6	2
1:A:87:ASP:HB3	1:A:90:THR:HG23	0.46	1.87	10	1
1:A:85:TRP:CD1	1:B:52:ILE:HG12	0.46	2.45	12	1
1:A:63:LYS:N	1:B:85:TRP:HE3	0.46	2.02	14	1
1:A:40:VAL:CG1	1:A:103:MET:HE2	0.46	2.41	1	1
1:A:39:LYS:HB3	1:A:43:TRP:CD1	0.46	2.46	2	6
1:B:93:SER:CB	1:B:110:PHE:CE2	0.46	2.99	12	3
1:B:112:LEU:N	1:B:112:LEU:CD1	0.46	2.77	4	7
1:B:104:TYR:CD1	1:B:104:TYR:N	0.46	2.84	5	3
1:A:80:THR:N	1:B:70:ILE:CD1	0.46	2.77	3	1
1:B:41:SER:CB	1:B:70:ILE:HD13	0.46	2.41	4	1
1:B:55:LEU:CD1	1:B:64:TYR:CE1	0.46	2.99	15	1
1:A:97:ARG:HE	1:A:106:ILE:HD12	0.46	1.70	3	1
1:B:55:LEU:CB	1:B:64:TYR:CE1	0.46	2.99	13	2
1:A:62:PHE:O	1:B:85:TRP:CE2	0.46	2.63	14	1
1:A:63:LYS:HB3	1:A:114:ILE:HD12	0.46	1.86	15	1
1:B:97:ARG:HE	1:B:106:ILE:HD12	0.46	1.70	3	1
1:B:7:ALA:CB	1:B:98:TRP:CZ3	0.46	2.98	14	5
1:A:69:ILE:CG2	1:B:80:THR:HA	0.46	2.41	9	1
1:B:108:THR:HG23	1:B:110:PHE:CE1	0.46	2.46	10	2
1:A:55:LEU:CD1	1:A:64:TYR:CE1	0.46	2.99	15	1
1:A:96:VAL:CG1	1:A:98:TRP:CZ3	0.45	2.99	1	2
1:A:8:VAL:HG23	1:A:99:GLU:HB3	0.45	1.87	5	1
1:A:23:LYS:NZ	1:A:96:VAL:HG13	0.45	2.26	5	1
1:A:83:SER:OG	1:B:52:ILE:HB	0.45	2.11	11	1
1:A:56:THR:HG22	1:A:64:TYR:HE2	0.45	1.70	14	1
1:A:11:ALA:O	1:A:12:ALA:HB3	0.45	2.11	6	2
1:B:11:ALA:O	1:B:96:VAL:HG22	0.45	2.11	11	2
1:B:87:ASP:HB3	1:B:90:THR:HG23	0.45	1.87	10	1
1:A:104:TYR:CD1	1:A:104:TYR:N	0.45	2.84	5	2
1:B:23:LYS:NZ	1:B:96:VAL:HG13	0.45	2.26	5	1
1:A:93:SER:CB	1:A:110:PHE:CE2	0.45	2.99	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:62:PHE:CE1	1:B:85:TRP:CZ3	0.45	3.04	11	1
1:A:71:MET:CG	1:B:78:LEU:CD1	0.45	2.85	15	1
1:B:55:LEU:N	1:B:55:LEU:CD2	0.45	2.79	15	1
1:A:78:LEU:HD22	1:A:79:HIS:N	0.45	2.26	1	1
1:A:96:VAL:HB	1:A:98:TRP:CZ3	0.45	2.46	7	2
1:B:40:VAL:CG1	1:B:103:MET:HE2	0.45	2.41	1	1
1:B:96:VAL:HB	1:B:98:TRP:CZ3	0.45	2.46	7	2
1:A:41:SER:CB	1:A:70:ILE:HD13	0.45	2.41	4	1
1:A:99:GLU:CG	1:A:104:TYR:CD1	0.45	3.00	4	3
1:B:4:VAL:HG22	1:B:101:LYS:HB3	0.45	1.88	7	1
1:A:108:THR:HG23	1:A:110:PHE:CE1	0.45	2.46	10	2
1:A:52:ILE:HB	1:B:83:SER:OG	0.45	2.11	11	1
1:B:51:CYS:HB3	1:B:66:VAL:HG21	0.45	1.88	11	1
1:A:76:ALA:HB1	1:B:76:ALA:CB	0.45	2.39	15	1
1:A:65:VAL:HA	1:B:84:CYS:HA	0.45	1.86	1	1
1:B:96:VAL:CG1	1:B:98:TRP:CZ3	0.45	2.99	1	2
1:B:99:GLU:CG	1:B:104:TYR:CD1	0.45	3.00	4	3
1:B:114:ILE:HG22	1:B:114:ILE:O	0.45	2.11	7	1
1:A:81:ALA:C	1:B:68:CYS:SG	0.45	3.00	3	1
1:B:65:VAL:CG1	1:B:110:PHE:CG	0.45	3.00	5	1
1:A:55:LEU:CB	1:A:64:TYR:CE1	0.45	2.99	13	2
1:A:67:THR:HG1	1:A:68:CYS:N	0.45	2.04	10	1
1:A:30:LEU:HD13	1:A:43:TRP:CD2	0.45	2.47	11	6
1:A:114:ILE:O	1:A:114:ILE:HG22	0.45	2.11	7	1
1:A:69:ILE:HA	1:B:80:THR:CB	0.45	2.42	3	1
1:B:71:MET:HE3	1:B:73:LYS:O	0.45	2.12	4	1
1:A:27:ASP:O	1:A:31:GLN:CB	0.45	2.65	3	14
1:B:39:LYS:HB3	1:B:43:TRP:CD1	0.45	2.47	5	4
1:B:97:ARG:HB2	1:B:106:ILE:HD12	0.45	1.88	2	1
1:A:68:CYS:SG	1:B:81:ALA:C	0.45	3.00	3	1
1:B:26:ILE:CG2	1:B:98:TRP:CD1	0.45	2.99	13	7
1:A:69:ILE:CG2	1:B:78:LEU:CG	0.45	2.90	8	1
1:A:63:LYS:CG	1:B:85:TRP:HB3	0.45	2.41	11	1
1:A:11:ALA:O	1:A:96:VAL:HG22	0.45	2.11	11	2
1:A:5:ASP:OD2	1:A:8:VAL:HG21	0.44	2.13	1	1
1:B:30:LEU:HD13	1:B:43:TRP:CD2	0.44	2.47	1	6
1:A:80:THR:HA	1:B:69:ILE:CG2	0.44	2.41	9	1
1:A:47:CYS:O	1:A:51:CYS:N	0.44	2.50	8	7
1:A:70:ILE:HD11	1:B:79:HIS:C	0.44	2.33	3	1
1:A:85:TRP:CZ2	1:B:56:THR:HB	0.44	2.48	12	1
1:B:47:CYS:O	1:B:51:CYS:N	0.44	2.50	8	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:96:VAL:CG1	1:B:98:TRP:CH2	0.44	3.00	1	1
1:A:62:PHE:O	1:B:85:TRP:CG	0.44	2.65	14	1
1:B:27:ASP:O	1:B:31:GLN:CB	0.44	2.65	3	13
1:B:65:VAL:HG23	1:B:110:PHE:HB2	0.44	1.89	4	4
1:A:97:ARG:HB2	1:A:106:ILE:HD12	0.44	1.88	2	1
1:B:21:ILE:HG23	1:B:54:ARG:CB	0.44	2.43	6	1
1:A:68:CYS:SG	1:B:81:ALA:CA	0.44	3.06	3	1
1:A:21:ILE:HG23	1:A:54:ARG:CB	0.44	2.43	6	1
1:A:65:VAL:CG1	1:A:110:PHE:CG	0.44	3.00	5	1
1:A:30:LEU:CD1	1:A:43:TRP:CD2	0.44	3.01	7	2
1:B:30:LEU:CD1	1:B:43:TRP:CD2	0.44	3.01	7	2
1:A:78:LEU:HB3	1:B:78:LEU:HB3	0.44	1.90	8	1
1:A:71:MET:HE3	1:A:73:LYS:O	0.44	2.12	4	1
1:A:85:TRP:CZ3	1:B:62:PHE:CE1	0.44	3.04	11	1
1:B:22:ILE:HG22	1:B:26:ILE:HD13	0.44	1.90	11	1
1:B:65:VAL:HG13	1:B:110:PHE:HB3	0.44	1.86	15	1
1:A:96:VAL:CG1	1:A:98:TRP:CH2	0.44	3.00	1	1
1:A:12:ALA:HB2	1:A:95:THR:O	0.44	2.13	2	1
1:B:7:ALA:C	1:B:8:VAL:CG2	0.44	2.91	10	6
1:B:22:ILE:HG23	1:B:23:LYS:N	0.44	2.28	8	5
1:A:78:LEU:HD13	1:A:79:HIS:H	0.44	1.73	11	2
1:A:63:LYS:CA	1:B:85:TRP:CE3	0.44	3.01	14	1
1:B:5:ASP:OD2	1:B:8:VAL:HG21	0.43	2.13	1	1
1:A:29:VAL:O	1:A:43:TRP:CG	0.43	2.71	3	6
1:A:7:ALA:C	1:A:8:VAL:CG2	0.43	2.91	3	7
1:A:22:ILE:HG23	1:A:23:LYS:N	0.43	2.28	8	5
1:A:79:HIS:CD2	1:B:41:SER:OG	0.43	2.71	3	1
1:A:65:VAL:HG23	1:A:110:PHE:HB2	0.43	1.90	13	2
1:A:65:VAL:CG1	1:A:110:PHE:HB2	0.43	2.43	12	3
1:B:65:VAL:CG1	1:B:110:PHE:HB2	0.43	2.43	12	4
1:B:56:THR:HG22	1:B:64:TYR:CD2	0.43	2.48	14	2
1:B:29:VAL:O	1:B:43:TRP:CG	0.43	2.71	3	7
1:A:80:THR:CB	1:B:69:ILE:HA	0.43	2.42	3	1
1:A:55:LEU:HD22	1:A:64:TYR:CE1	0.43	2.48	9	1
1:B:55:LEU:HD22	1:B:64:TYR:CE1	0.43	2.48	9	1
1:A:83:SER:HB3	1:B:66:VAL:H	0.43	1.73	11	1
1:A:56:THR:HB	1:B:85:TRP:CZ2	0.43	2.48	12	1
1:B:62:PHE:CB	1:B:114:ILE:HD13	0.43	2.43	13	1
1:B:5:ASP:HB3	1:B:8:VAL:HG22	0.43	1.91	9	2
1:A:64:TYR:CD1	1:A:64:TYR:N	0.43	2.87	5	1
1:A:63:LYS:HE3	1:B:87:ASP:CB	0.43	2.39	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:62:PHE:CB	1:A:114:ILE:HD13	0.43	2.43	13	1
1:B:71:MET:SD	1:B:78:LEU:HD12	0.43	2.54	1	1
1:B:65:VAL:HB	1:B:110:PHE:HB2	0.43	1.89	5	4
1:B:90:THR:O	1:B:112:LEU:HA	0.43	2.13	6	1
1:A:4:VAL:HG22	1:A:101:LYS:HB3	0.43	1.88	7	1
1:A:22:ILE:HG22	1:A:26:ILE:HD13	0.43	1.90	11	1
1:A:30:LEU:HD22	1:A:30:LEU:N	0.43	2.28	2	5
1:B:90:THR:O	1:B:112:LEU:HD12	0.43	2.14	6	1
1:A:66:VAL:H	1:B:83:SER:HB3	0.43	1.73	11	1
1:B:67:THR:CG2	1:B:110:PHE:CZ	0.43	3.02	14	1
1:B:22:ILE:HD13	1:B:22:ILE:O	0.43	2.14	15	1
1:B:12:ALA:HB2	1:B:95:THR:O	0.43	2.13	2	1
1:A:65:VAL:HB	1:A:110:PHE:HB2	0.43	1.91	6	5
1:A:48:LEU:HD12	1:A:66:VAL:CG1	0.43	2.44	12	1
1:A:22:ILE:HD13	1:A:22:ILE:O	0.43	2.14	15	1
1:B:52:ILE:C	1:B:52:ILE:CD1	0.43	2.92	8	5
1:A:5:ASP:HB3	1:A:8:VAL:HG22	0.43	1.89	3	2
1:A:85:TRP:HB3	1:B:63:LYS:CG	0.43	2.41	11	1
1:A:85:TRP:CE3	1:B:63:LYS:CA	0.43	3.01	14	1
1:A:78:LEU:HD13	1:B:78:LEU:CD2	0.43	2.39	15	1
1:A:52:ILE:C	1:A:52:ILE:CD1	0.43	2.92	8	9
1:A:62:PHE:CE2	1:B:85:TRP:HZ3	0.43	2.25	6	1
1:A:90:THR:O	1:A:112:LEU:HA	0.43	2.13	6	1
1:B:29:VAL:CG1	1:B:43:TRP:O	0.43	2.67	12	3
1:B:90:THR:HG22	1:B:114:ILE:HD13	0.43	1.90	8	1
1:A:41:SER:OG	1:B:79:HIS:CG	0.43	2.72	6	2
1:B:110:PHE:N	1:B:110:PHE:CD1	0.43	2.86	2	1
1:A:80:THR:CB	1:B:68:CYS:O	0.43	2.65	3	1
1:A:81:ALA:CA	1:B:68:CYS:SG	0.43	3.06	3	1
1:A:29:VAL:CG1	1:A:43:TRP:O	0.43	2.67	12	4
1:A:65:VAL:HG13	1:A:110:PHE:HB3	0.43	1.86	15	1
1:A:110:PHE:CD1	1:A:110:PHE:N	0.42	2.86	2	1
1:B:51:CYS:O	1:B:55:LEU:CD2	0.42	2.67	2	2
1:B:64:TYR:CD1	1:B:64:TYR:N	0.42	2.87	5	1
1:A:56:THR:HG22	1:A:64:TYR:CD2	0.42	2.48	14	2
1:A:71:MET:HE1	1:A:78:LEU:HB3	0.42	1.91	11	1
1:A:71:MET:SD	1:A:78:LEU:HD12	0.42	2.54	1	1
1:B:14:VAL:HG12	1:B:15:ALA:N	0.42	2.29	13	5
1:B:52:ILE:HD12	1:B:53:LYS:CE	0.42	2.44	5	1
1:A:65:VAL:HG12	1:A:110:PHE:O	0.42	2.14	14	2
1:B:14:VAL:O	1:B:15:ALA:HB2	0.42	2.14	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:71:MET:HE1	1:B:78:LEU:HB3	0.42	1.91	11	1
1:A:22:ILE:CD1	1:A:109:VAL:HG21	0.42	2.44	14	1
1:A:67:THR:CG2	1:A:108:THR:CG2	0.42	2.98	2	2
1:B:30:LEU:HD22	1:B:30:LEU:N	0.42	2.28	2	2
1:B:32:ASN:OD1	1:B:43:TRP:CH2	0.42	2.73	4	2
1:A:90:THR:O	1:A:112:LEU:HD12	0.42	2.14	6	1
1:B:90:THR:HG22	1:B:114:ILE:HG13	0.42	1.88	15	1
1:A:32:ASN:OD1	1:A:43:TRP:CH2	0.42	2.73	12	3
1:A:99:GLU:CG	1:A:104:TYR:CD2	0.42	3.02	2	1
1:B:99:GLU:CG	1:B:104:TYR:CD2	0.42	3.02	2	1
1:A:41:SER:OG	1:B:79:HIS:CD2	0.42	2.71	3	1
1:A:48:LEU:HD23	1:B:82:ALA:H	0.42	1.60	3	1
1:A:14:VAL:HG12	1:A:15:ALA:N	0.42	2.29	13	7
1:A:78:LEU:HD12	1:B:78:LEU:HD21	0.42	1.52	9	1
1:B:30:LEU:HD13	1:B:43:TRP:CG	0.42	2.50	14	1
1:A:90:THR:HG22	1:A:114:ILE:HD13	0.42	1.90	8	1
1:A:15:ALA:HB1	1:A:18:VAL:HB	0.42	1.91	11	1
1:B:48:LEU:HD12	1:B:66:VAL:CG1	0.42	2.44	12	1
1:A:85:TRP:HB2	1:B:63:LYS:C	0.42	2.37	14	1
1:A:64:TYR:CD1	1:B:85:TRP:CG	0.42	3.03	1	1
1:A:52:ILE:HD12	1:A:53:LYS:CE	0.42	2.44	5	1
1:B:65:VAL:HG12	1:B:110:PHE:O	0.42	2.15	14	2
1:A:43:TRP:O	1:A:46:SER:N	0.42	2.52	12	1
1:B:43:TRP:O	1:B:46:SER:N	0.42	2.52	12	1
1:A:67:THR:CG2	1:A:110:PHE:CZ	0.42	3.02	14	1
1:A:83:SER:HB2	1:B:48:LEU:CG	0.42	2.44	1	1
1:A:83:SER:N	1:B:48:LEU:HG	0.42	2.30	3	1
1:A:78:LEU:HD21	1:B:78:LEU:HD12	0.42	1.52	9	1
1:B:15:ALA:HB1	1:B:18:VAL:HB	0.42	1.91	11	1
1:A:93:SER:HB3	1:A:110:PHE:CE2	0.42	2.49	13	2
1:A:55:LEU:HD12	1:A:64:TYR:CD1	0.42	2.50	15	1
1:B:63:LYS:HB3	1:B:114:ILE:HD12	0.42	1.86	15	1
1:A:30:LEU:CD2	1:A:30:LEU:N	0.42	2.83	1	3
1:A:51:CYS:O	1:A:55:LEU:CD2	0.42	2.67	2	2
1:B:93:SER:HB2	1:B:110:PHE:CE2	0.42	2.50	9	1
1:B:11:ALA:HB3	1:B:96:VAL:HA	0.42	1.92	10	2
1:A:85:TRP:CG	1:B:64:TYR:CD1	0.42	3.03	1	1
1:B:39:LYS:O	1:B:43:TRP:CG	0.42	2.73	7	4
1:A:32:ASN:OD1	1:A:43:TRP:CZ2	0.42	2.73	2	2
1:B:93:SER:HB3	1:B:110:PHE:CE2	0.42	2.49	13	2
1:A:30:LEU:HD13	1:A:43:TRP:CG	0.42	2.50	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:22:ILE:CG2	1:B:23:LYS:N	0.42	2.83	15	1
1:A:79:HIS:CG	1:B:41:SER:OG	0.42	2.72	6	2
1:A:48:LEU:HG	1:B:83:SER:N	0.42	2.30	3	1
1:B:73:LYS:O	1:B:73:LYS:CG	0.42	2.68	3	1
1:A:85:TRP:NE1	1:B:64:TYR:OH	0.42	2.53	7	1
1:A:93:SER:HB2	1:A:110:PHE:CE2	0.42	2.50	9	1
1:B:18:VAL:HA	1:B:21:ILE:HD12	0.42	1.92	11	1
1:A:48:LEU:CG	1:B:83:SER:HB2	0.41	2.44	1	1
1:A:112:LEU:N	1:A:112:LEU:CD1	0.41	2.83	5	6
1:B:62:PHE:O	1:B:64:TYR:CE1	0.41	2.73	5	2
1:B:67:THR:CG2	1:B:108:THR:CG2	0.41	2.97	2	2
1:B:13:PHE:CD2	1:B:14:VAL:HG23	0.41	2.50	5	1
1:A:64:TYR:OH	1:B:85:TRP:NE1	0.41	2.53	7	1
1:A:18:VAL:HG12	1:A:109:VAL:HG11	0.41	1.91	13	1
1:B:22:ILE:CD1	1:B:109:VAL:HG21	0.41	2.44	14	1
1:A:55:LEU:CD1	1:A:64:TYR:CZ	0.41	3.03	15	1
1:B:55:LEU:CD1	1:B:64:TYR:CZ	0.41	3.03	15	1
1:B:22:ILE:CD1	1:B:109:VAL:CG2	0.41	2.98	11	2
1:B:29:VAL:HG11	1:B:47:CYS:SG	0.41	2.55	11	1
1:A:22:ILE:CG2	1:A:23:LYS:N	0.41	2.83	15	1
1:A:62:PHE:O	1:A:64:TYR:CE1	0.41	2.73	2	2
1:A:13:PHE:CD2	1:A:14:VAL:HG23	0.41	2.50	5	1
1:A:80:THR:CA	1:B:69:ILE:HG23	0.41	2.45	9	1
1:A:29:VAL:HG11	1:A:47:CYS:SG	0.41	2.55	11	1
1:B:7:ALA:N	1:B:98:TRP:CZ3	0.41	2.88	11	1
1:B:78:LEU:HD13	1:B:79:HIS:H	0.41	1.73	11	2
1:B:99:GLU:OE1	1:B:104:TYR:CG	0.41	2.73	13	1
1:B:64:TYR:CZ	1:B:109:VAL:HG13	0.41	2.51	15	1
1:A:39:LYS:O	1:A:43:TRP:CG	0.41	2.74	11	4
1:A:62:PHE:O	1:A:64:TYR:CZ	0.41	2.74	2	3
1:A:15:ALA:CB	1:A:94:ARG:NH1	0.41	2.84	3	1
1:A:68:CYS:SG	1:B:81:ALA:O	0.41	2.79	3	1
1:A:81:ALA:O	1:B:68:CYS:SG	0.41	2.79	3	1
1:B:93:SER:CB	1:B:110:PHE:CE1	0.41	3.04	4	1
1:A:69:ILE:HG23	1:B:80:THR:CA	0.41	2.45	9	1
1:A:11:ALA:HB3	1:A:96:VAL:HA	0.41	1.92	10	1
1:A:7:ALA:N	1:A:98:TRP:CZ3	0.41	2.89	11	1
1:A:78:LEU:CD2	1:B:70:ILE:O	0.41	2.49	13	1
1:A:22:ILE:O	1:A:26:ILE:CD1	0.41	2.69	14	1
1:B:46:SER:O	1:B:50:HIS:CD2	0.41	2.73	1	3
1:B:32:ASN:OD1	1:B:43:TRP:CZ2	0.41	2.73	8	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:73:LYS:O	1:A:73:LYS:CG	0.41	2.67	3	1
1:B:22:ILE:O	1:B:26:ILE:CD1	0.41	2.69	14	2
1:A:22:ILE:CD1	1:A:109:VAL:CG2	0.41	2.99	14	2
1:B:66:VAL:HG13	1:B:109:VAL:HG22	0.41	1.92	15	1
1:B:30:LEU:CD2	1:B:30:LEU:N	0.41	2.83	1	1
1:A:93:SER:HB3	1:A:110:PHE:CD1	0.41	2.50	10	1
1:A:29:VAL:O	1:A:43:TRP:CD2	0.41	2.73	4	3
1:B:62:PHE:O	1:B:64:TYR:CZ	0.41	2.74	2	1
1:A:93:SER:HB3	1:A:110:PHE:CD2	0.41	2.51	9	1
1:A:11:ALA:HB3	1:A:96:VAL:CA	0.41	2.45	10	1
1:A:67:THR:HG23	1:A:108:THR:HG23	0.41	1.90	10	1
1:B:37:GLU:HA	1:B:40:VAL:HG13	0.41	1.91	10	1
1:A:99:GLU:OE1	1:A:104:TYR:CG	0.41	2.73	13	1
1:B:18:VAL:HG12	1:B:109:VAL:HG11	0.41	1.91	13	1
1:A:51:CYS:O	1:A:55:LEU:HD22	0.41	2.16	14	1
1:A:85:TRP:CG	1:B:62:PHE:O	0.41	2.65	14	1
1:A:99:GLU:CD	1:A:104:TYR:CD2	0.41	2.99	2	1
1:B:29:VAL:O	1:B:43:TRP:CD2	0.41	2.73	4	3
1:B:93:SER:HB2	1:B:110:PHE:CE1	0.41	2.51	4	1
1:A:62:PHE:O	1:A:64:TYR:CE2	0.41	2.74	14	2
1:A:46:SER:O	1:A:50:HIS:CD2	0.41	2.74	9	2
1:A:99:GLU:HG2	1:A:104:TYR:CD2	0.41	2.51	2	1
1:B:99:GLU:CD	1:B:104:TYR:CD2	0.41	2.99	2	2
1:A:93:SER:CB	1:A:110:PHE:CE1	0.41	3.04	4	1
1:A:99:GLU:HG2	1:A:104:TYR:CD1	0.41	2.51	4	1
1:B:99:GLU:HG2	1:B:104:TYR:CD1	0.41	2.51	4	1
1:B:22:ILE:HG13	1:B:109:VAL:HG22	0.41	1.93	5	1
1:B:35:TYR:CD1	1:B:35:TYR:C	0.41	2.99	5	1
1:B:62:PHE:O	1:B:64:TYR:CE2	0.41	2.74	14	3
1:A:23:LYS:CG	1:A:96:VAL:HG11	0.41	2.45	8	1
1:A:43:TRP:CE3	1:A:43:TRP:HA	0.41	2.51	9	1
1:B:43:TRP:HA	1:B:43:TRP:CE3	0.41	2.51	9	1
1:A:37:GLU:HA	1:A:40:VAL:HG13	0.41	1.92	10	1
1:A:82:ALA:HA	1:B:66:VAL:C	0.41	2.39	10	1
1:A:65:VAL:HG13	1:A:65:VAL:O	0.41	2.16	11	1
1:B:65:VAL:HG13	1:B:65:VAL:O	0.41	2.16	11	1
1:A:70:ILE:O	1:B:78:LEU:CD2	0.41	2.49	13	1
1:B:99:GLU:OE1	1:B:104:TYR:CD2	0.41	2.74	13	1
1:B:55:LEU:HD12	1:B:64:TYR:CD1	0.41	2.50	15	1
1:A:102:SER:O	1:A:104:TYR:CE1	0.41	2.74	4	1
1:B:52:ILE:CD1	1:B:53:LYS:CE	0.41	2.99	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:21:ILE:CG2	1:B:54:ARG:CB	0.41	2.99	6	1
1:A:78:LEU:HD11	1:B:78:LEU:HD11	0.41	1.68	9	1
1:B:55:LEU:HB3	1:B:64:TYR:CE1	0.41	2.51	13	1
1:B:56:THR:HG22	1:B:64:TYR:HE2	0.41	1.70	14	1
1:A:22:ILE:CD1	1:A:26:ILE:CD1	0.41	2.99	15	1
1:A:71:MET:HG2	1:B:78:LEU:HD11	0.41	1.84	15	1
1:B:43:TRP:CE3	1:B:43:TRP:HA	0.41	2.51	15	1
1:A:95:THR:HA	1:A:108:THR:HA	0.40	1.93	3	1
1:A:112:LEU:CB	1:B:86:TRP:CZ2	0.40	3.04	4	1
1:B:23:LYS:CG	1:B:96:VAL:HG11	0.40	2.45	8	1
1:A:66:VAL:C	1:B:82:ALA:HA	0.40	2.39	10	1
1:A:99:GLU:OE1	1:A:104:TYR:CD1	0.40	2.74	10	1
1:A:14:VAL:O	1:A:15:ALA:HB2	0.40	2.15	11	1
1:B:51:CYS:O	1:B:55:LEU:HD22	0.40	2.16	14	1
1:A:66:VAL:HG13	1:A:109:VAL:HG22	0.40	1.92	15	1
1:A:93:SER:HB2	1:A:110:PHE:CE1	0.40	2.51	4	1
1:A:81:ALA:CB	1:B:68:CYS:C	0.40	2.70	9	1
1:A:51:CYS:SG	1:A:66:VAL:HG21	0.40	2.56	10	1
1:B:73:LYS:O	1:B:104:TYR:CD1	0.40	2.74	13	1
1:B:5:ASP:O	1:B:8:VAL:HG22	0.40	2.16	15	1
1:B:99:GLU:HG2	1:B:104:TYR:CD2	0.40	2.51	2	1
1:B:102:SER:O	1:B:104:TYR:CE1	0.40	2.74	4	1
1:A:55:LEU:HB2	1:A:64:TYR:CE1	0.40	2.51	7	1
1:A:93:SER:HB2	1:A:110:PHE:CZ	0.40	2.52	7	1
1:B:55:LEU:HB2	1:B:64:TYR:CE1	0.40	2.51	7	1
1:B:11:ALA:HB3	1:B:96:VAL:CA	0.40	2.45	10	1
1:A:78:LEU:CD1	1:B:69:ILE:HG23	0.40	2.46	11	1
1:B:93:SER:CB	1:B:110:PHE:CZ	0.40	3.04	11	1
1:B:22:ILE:CD1	1:B:26:ILE:CD1	0.40	2.99	15	1
1:A:68:CYS:O	1:B:80:THR:CB	0.40	2.65	3	1
1:A:98:TRP:CE3	1:A:98:TRP:HA	0.40	2.52	5	1
1:B:52:ILE:HG23	1:B:53:LYS:N	0.40	2.32	6	1
1:B:55:LEU:CB	1:B:64:TYR:CD2	0.40	3.04	12	1
1:A:78:LEU:HD12	1:B:78:LEU:HD12	0.40	1.93	2	1
1:B:95:THR:HA	1:B:108:THR:HA	0.40	1.93	2	2
1:A:52:ILE:CD1	1:A:53:LYS:CE	0.40	2.99	5	1
1:B:55:LEU:HB3	1:B:64:TYR:CE2	0.40	2.52	5	1
1:A:66:VAL:HG22	1:A:109:VAL:CG1	0.40	2.47	10	1
1:A:44:THR:OG1	1:A:68:CYS:CB	0.40	2.70	14	1
1:A:5:ASP:O	1:A:8:VAL:HG22	0.40	2.16	15	1

6.3 Torsion angles

6.3.1 Protein backbone

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	110/114 (96%)	89±2 (81±2%)	14±3 (13±2%)	6±2 (6±2%)	2	20
1	B	110/114 (96%)	89±2 (81±2%)	14±3 (13±2%)	6±2 (6±2%)	2	20
All	All	3300/3420 (96%)	2681 (81%)	429 (13%)	190 (6%)	2	20

All 38 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	87	ASP	14
1	B	87	ASP	14
1	A	12	ALA	11
1	B	12	ALA	11
1	A	61	PRO	10
1	B	61	PRO	10
1	A	93	SER	9
1	B	93	SER	9
1	A	92	GLY	8
1	B	92	GLY	8
1	A	73	LYS	6
1	B	73	LYS	6
1	A	59	ASN	5
1	B	59	ASN	5
1	A	75	GLY	5
1	A	113	ALA	5
1	B	75	GLY	5
1	B	113	ALA	5
1	A	7	ALA	4
1	A	101	LYS	4
1	B	7	ALA	4
1	B	101	LYS	4
1	A	32	ASN	2
1	A	74	ASN	2
1	B	32	ASN	2
1	B	74	ASN	2

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Mol	Chain	Res	Type	Models (Total)
1	A	63	LYS	2
1	B	63	LYS	2
1	A	8	VAL	2
1	B	8	VAL	2
1	A	15	ALA	2
1	A	60	LYS	2
1	B	15	ALA	2
1	B	60	LYS	2
1	A	6	PRO	1
1	B	6	PRO	1
1	A	72	GLN	1
1	B	72	GLN	1

6.3.2 Protein sidechains

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	96/98 (98%)	69±3 (72±4%)	27±3 (28±4%)	1	19
1	B	96/98 (98%)	69±3 (72±4%)	27±3 (28±4%)	1	19
All	All	2880/2940 (98%)	2062 (72%)	818 (28%)	1	19

All 134 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	8	VAL	15
1	A	29	VAL	15
1	A	48	LEU	15
1	A	52	ILE	15
1	A	85	TRP	15
1	B	8	VAL	15
1	B	29	VAL	15
1	B	48	LEU	15
1	B	52	ILE	15
1	B	85	TRP	15
1	A	53	LYS	14
1	B	53	LYS	14

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Mol	Chain	Res	Type	Models (Total)
1	A	54	ARG	13
1	A	65	VAL	13
1	A	109	VAL	13
1	B	54	ARG	13
1	B	65	VAL	13
1	B	109	VAL	13
1	A	33	GLN	11
1	A	37	GLU	11
1	A	112	LEU	11
1	B	33	GLN	11
1	B	37	GLU	11
1	B	112	LEU	11
1	A	34	GLN	11
1	B	34	GLN	11
1	A	9	GLU	10
1	B	9	GLU	10
1	A	40	VAL	9
1	A	58	LEU	9
1	A	101	LYS	9
1	B	40	VAL	9
1	B	58	LEU	9
1	B	101	LYS	9
1	A	98	TRP	9
1	B	98	TRP	9
1	A	24	GLU	8
1	A	46	SER	8
1	A	71	MET	8
1	A	73	LYS	8
1	A	106	ILE	8
1	B	24	GLU	8
1	B	46	SER	8
1	B	71	MET	8
1	B	73	LYS	8
1	B	106	ILE	8
1	A	100	ASN	8
1	B	100	ASN	8
1	A	26	ILE	7
1	A	103	MET	7
1	B	26	ILE	7
1	B	103	MET	7
1	A	45	SER	7
1	B	45	SER	7

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Mol	Chain	Res	Type	Models (Total)
1	A	22	ILE	6
1	A	44	THR	6
1	A	47	CYS	6
1	B	22	ILE	6
1	B	44	THR	6
1	B	47	CYS	6
1	A	10	GLU	6
1	B	10	GLU	6
1	A	66	VAL	5
1	B	66	VAL	5
1	A	39	LYS	5
1	A	42	GLN	5
1	A	64	TYR	5
1	B	39	LYS	5
1	B	42	GLN	5
1	B	64	TYR	5
1	A	63	LYS	5
1	A	94	ARG	5
1	B	63	LYS	5
1	B	94	ARG	5
1	A	36	SER	5
1	B	36	SER	5
1	A	60	LYS	5
1	B	60	LYS	5
1	A	88	SER	4
1	B	88	SER	4
1	A	110	PHE	4
1	B	110	PHE	4
1	A	97	ARG	4
1	B	97	ARG	4
1	A	78	LEU	3
1	B	78	LEU	3
1	A	55	LEU	3
1	A	87	ASP	3
1	B	55	LEU	3
1	B	87	ASP	3
1	A	20	ASN	3
1	A	70	ILE	3
1	A	72	GLN	3
1	A	84	CYS	3
1	B	20	ASN	3
1	B	70	ILE	3

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Mol	Chain	Res	Type	Models (Total)
1	B	72	GLN	3
1	B	84	CYS	3
1	A	43	TRP	3
1	B	43	TRP	3
1	A	95	THR	3
1	B	95	THR	3
1	A	74	ASN	2
1	B	74	ASN	2
1	A	99	GLU	2
1	B	99	GLU	2
1	A	25	SER	2
1	B	25	SER	2
1	A	17	ASP	1
1	B	17	ASP	1
1	A	93	SER	1
1	B	93	SER	1
1	A	79	HIS	1
1	B	79	HIS	1
1	A	104	TYR	1
1	B	104	TYR	1
1	A	89	THR	1
1	A	102	SER	1
1	B	89	THR	1
1	B	102	SER	1
1	A	5	ASP	1
1	A	107	CYS	1
1	B	5	ASP	1
1	B	107	CYS	1
1	A	19	SER	1
1	B	19	SER	1
1	A	56	THR	1
1	A	96	VAL	1
1	B	56	THR	1
1	B	96	VAL	1
1	A	23	LYS	1
1	A	108	THR	1
1	B	23	LYS	1
1	B	108	THR	1

6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

No chemical shift data were provided