



Full wwPDB NMR Structure Validation Report ⓘ

Mar 17, 2026 – 11:10 AM UTC

PDB ID : 2P80 / pdb_00002p80
Title : Solution structure of the complex between nitrite reductase and pseudoazurin from *A. faecalis*
Authors : Vlasie, M.D.; Ubbink, M.
Deposited on : 2007-03-21

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

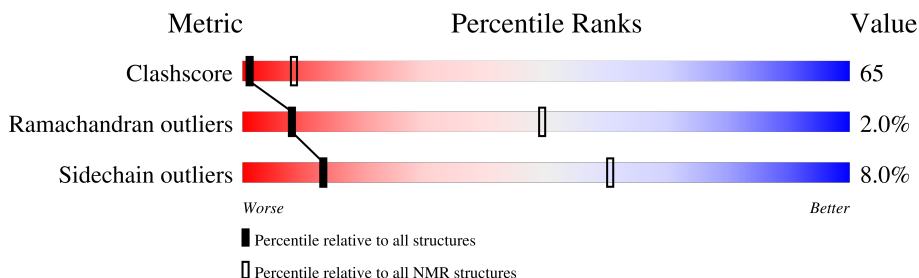
1 Overall quality at a glance

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	341	
1	B	341	
1	C	341	
2	D	123	

2 Ensemble composition and analysis

This entry contains 20 models. Model 1 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:5-A:339, B:4-B:339, C:4-C:339 (1007)	0.00	1
2	D:1-D:123 (123)	0.00	10

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

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

The models can be grouped into 3 clusters and 3 single-model clusters were found.

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

3 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 17072 atoms, of which 8444 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Copper-containing nitrite reductase.

Mol	Chain	Residues	Atoms						Trace
1	A	335	Total	C	H	N	O	S	0
			5045	1636	2490	429	479	11	
1	B	336	Total	C	H	N	O	S	0
			5055	1639	2495	430	480	11	
1	C	336	Total	C	H	N	O	S	0
			5055	1639	2495	430	480	11	

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	341	ILE	-	expression tag	UNP P38501
A	342	GLU	-	expression tag	UNP P38501
A	343	GLY	-	expression tag	UNP P38501
A	344	ARG	-	expression tag	UNP P38501
B	341	ILE	-	expression tag	UNP P38501
B	342	GLU	-	expression tag	UNP P38501
B	343	GLY	-	expression tag	UNP P38501
B	344	ARG	-	expression tag	UNP P38501
C	341	ILE	-	expression tag	UNP P38501
C	342	GLU	-	expression tag	UNP P38501
C	343	GLY	-	expression tag	UNP P38501
C	344	ARG	-	expression tag	UNP P38501

- Molecule 2 is a protein called Pseudoazurin.

Mol	Chain	Residues	Atoms						Trace
2	D	123	Total	C	H	N	O	S	0
			1901	598	964	155	178	6	

- Molecule 3 is COPPER (II) ION (CCD ID: CU) (formula: Cu).

Mol	Chain	Residues	Atoms	
3	A	2	Total	Cu
			2	2
3	B	2	Total	Cu
			2	2

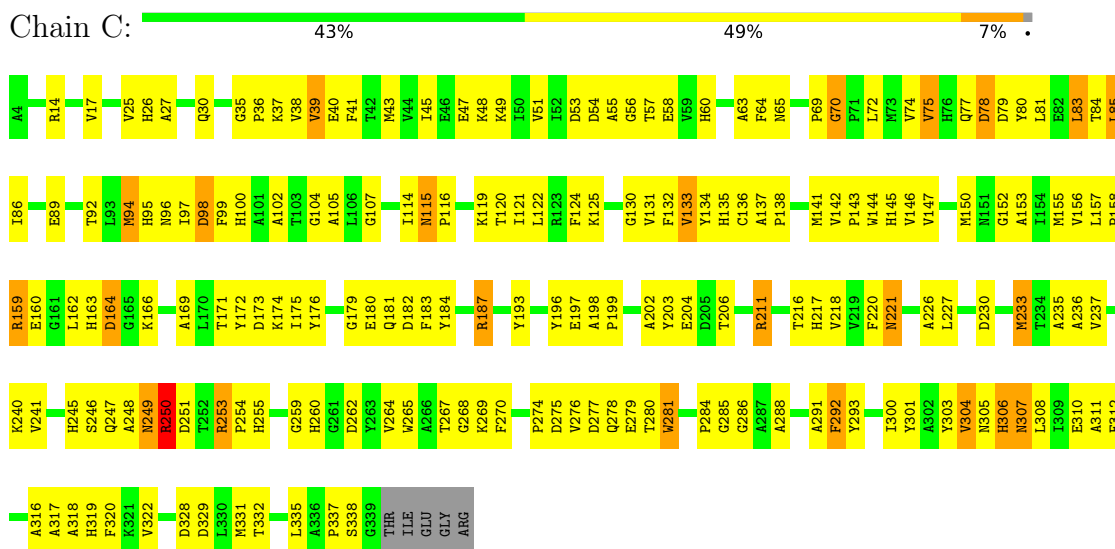
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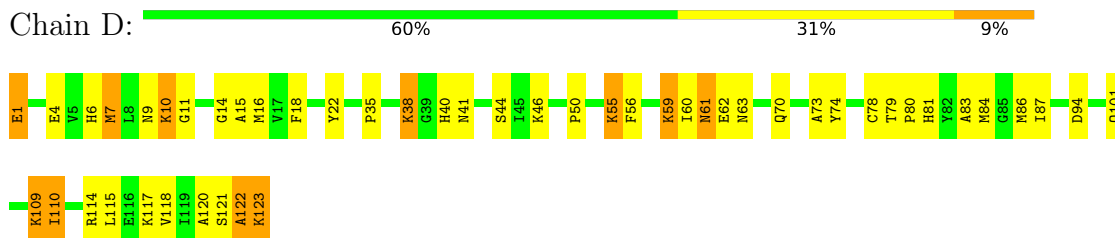
Mol	Chain	Residues	Atoms	
3	C	2	Total	Cu
			2	2
3	D	1	Total	Cu
			1	1

- Molecule 4 is GADOLINIUM ATOM (CCD ID: GD) (formula: Gd).

Mol	Chain	Residues	Atoms	
4	A	3	Total	Gd
			3	3
4	B	3	Total	Gd
			3	3
4	C	3	Total	Gd
			3	3



• Molecule 2: Pseudoazurin

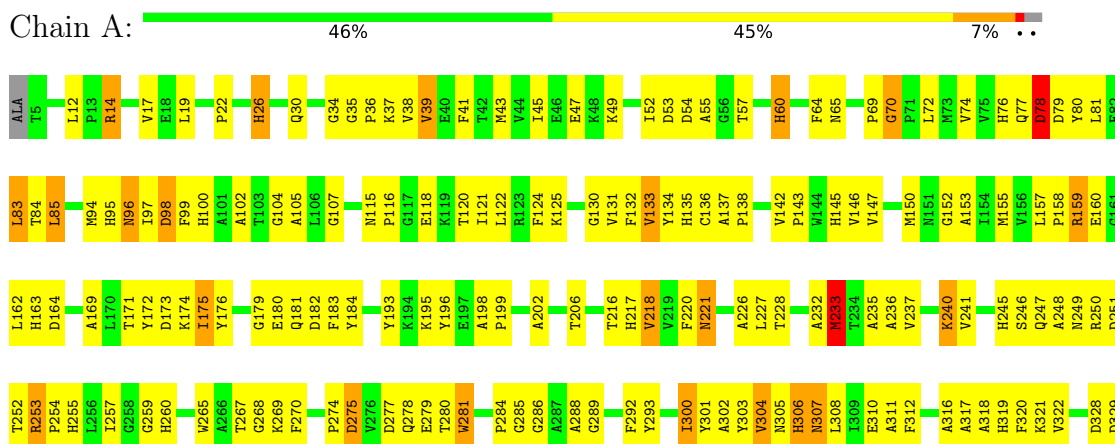


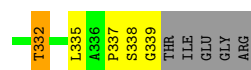
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1 (medoid)

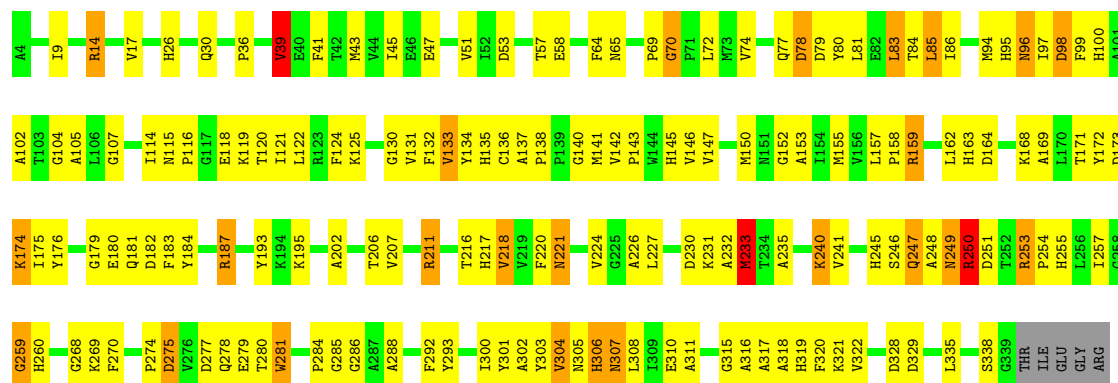
• Molecule 1: Copper-containing nitrite reductase





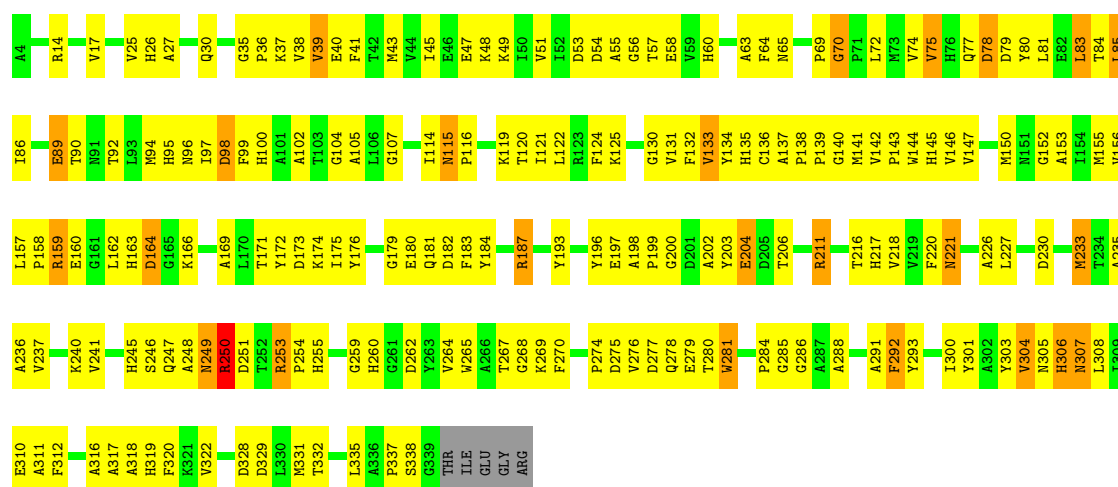
• Molecule 1: Copper-containing nitrite reductase

Chain B: 50% 40% 7% ..



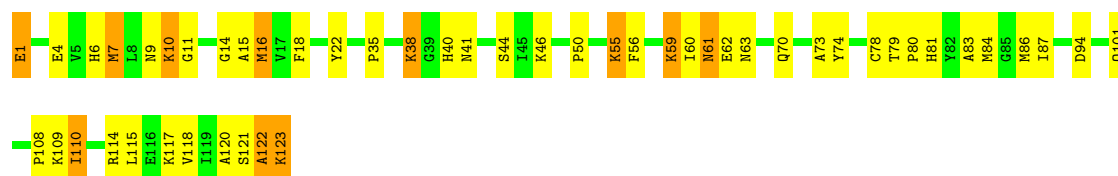
• Molecule 1: Copper-containing nitrite reductase

Chain C: 42% 50% 7% .



• Molecule 2: Pseudoazurin

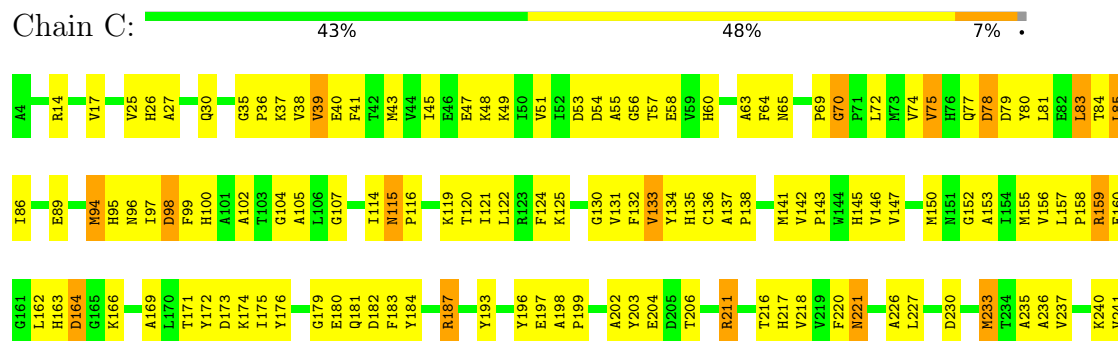
Chain D: 59% 32% 9%

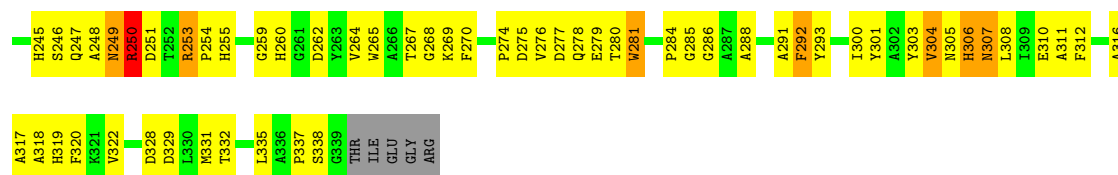


- Molecule 1: Copper-containing nitrite reductase

- Molecule 1: Copper-containing nitrite reductase

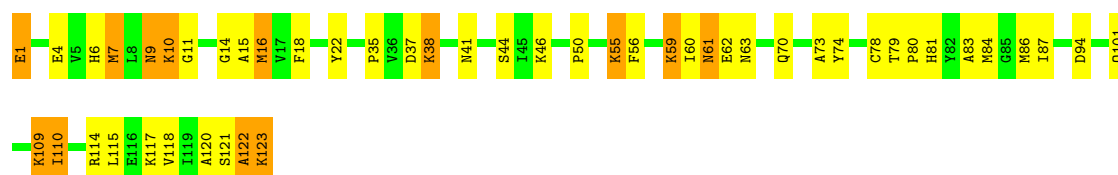
- Molecule 1: Copper-containing nitrite reductase





• Molecule 2: Pseudoazurin

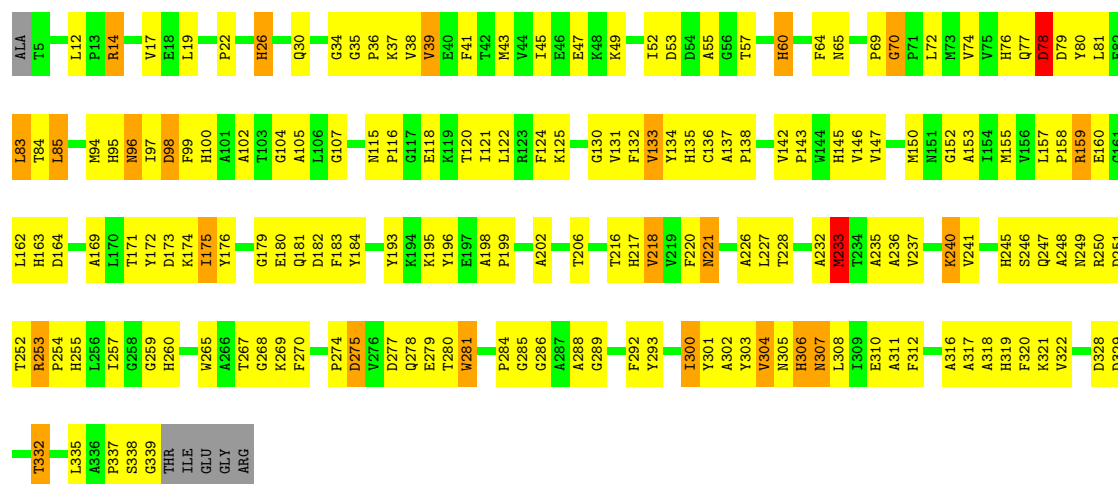
Chain D: 60% 29% 11%



4.2.3 Score per residue for model 3

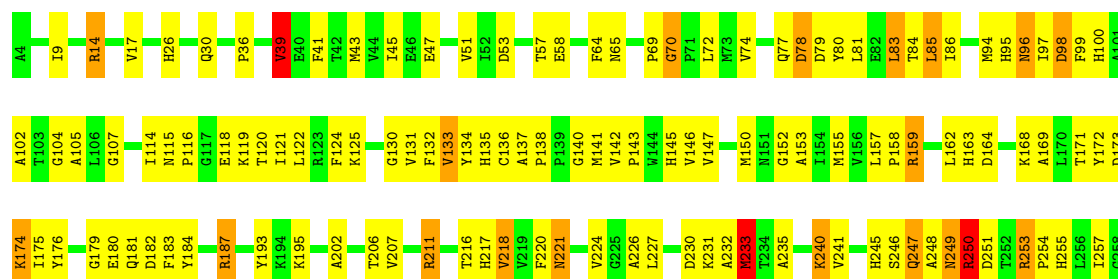
• Molecule 1: Copper-containing nitrite reductase

Chain A: 47% 44% 7% ..



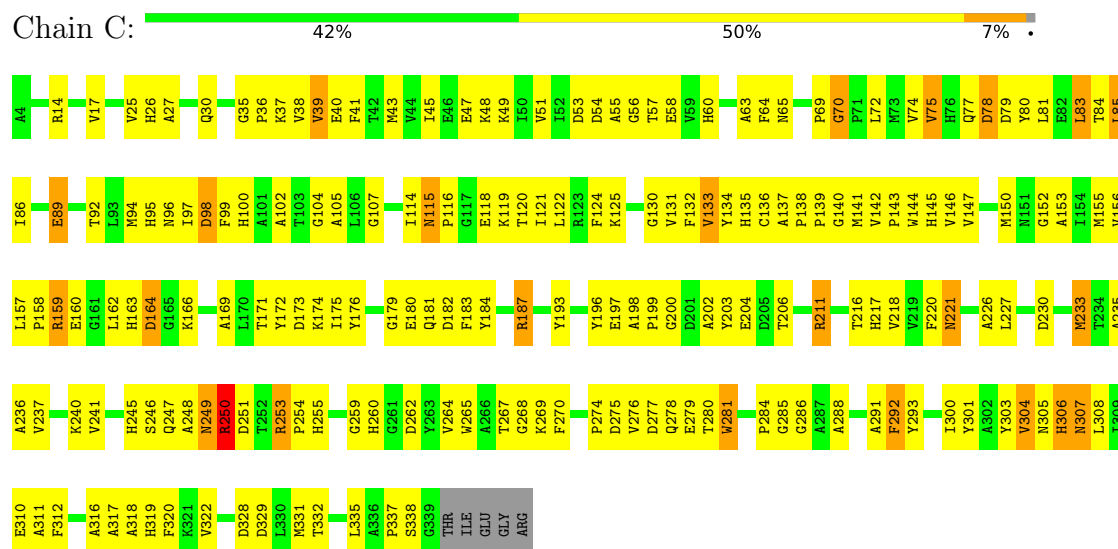
• Molecule 1: Copper-containing nitrite reductase

Chain B: 50% 40% 7% ..

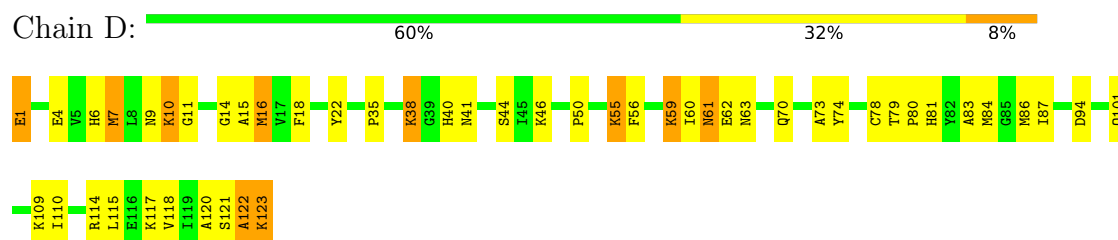




• Molecule 1: Copper-containing nitrite reductase

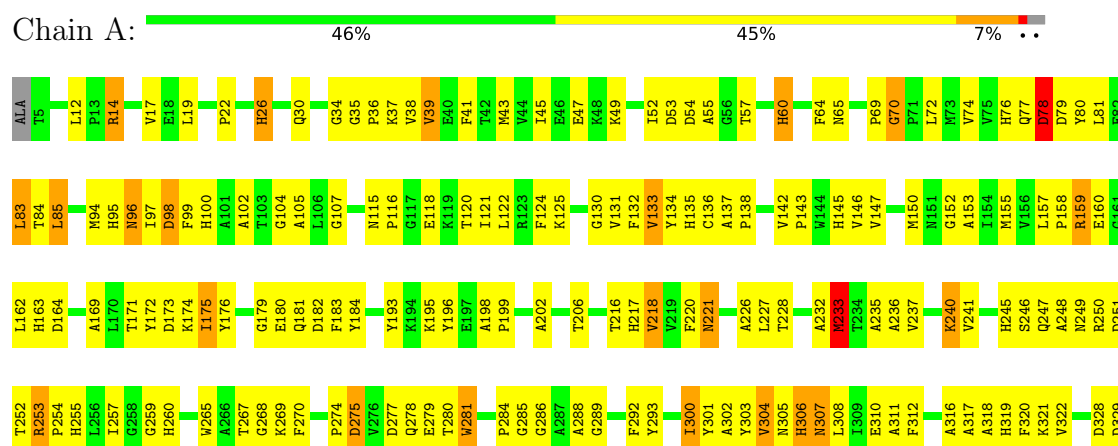


• Molecule 2: Pseudoazurin



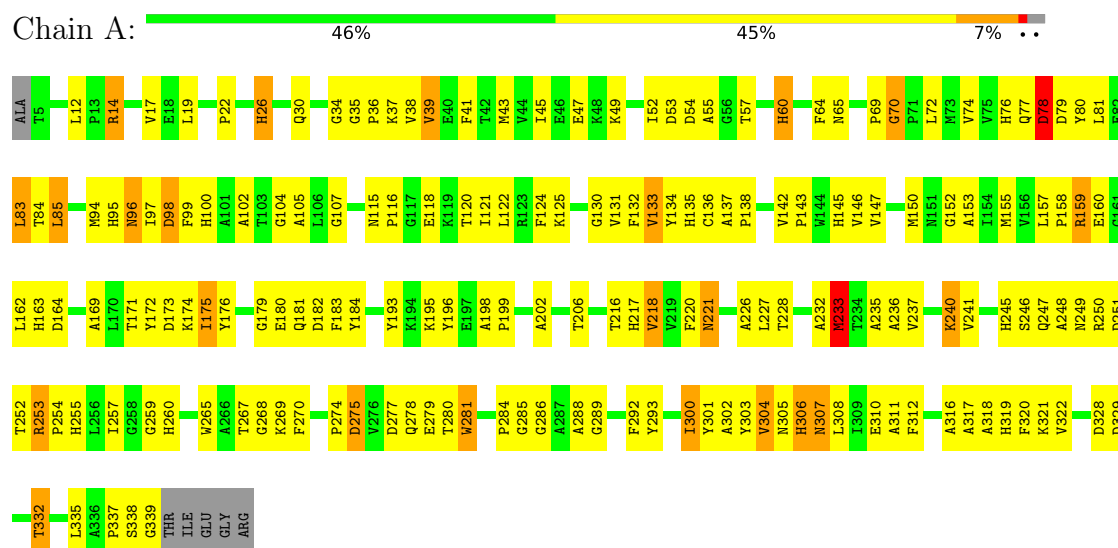
4.2.4 Score per residue for model 4

• Molecule 1: Copper-containing nitrite reductase

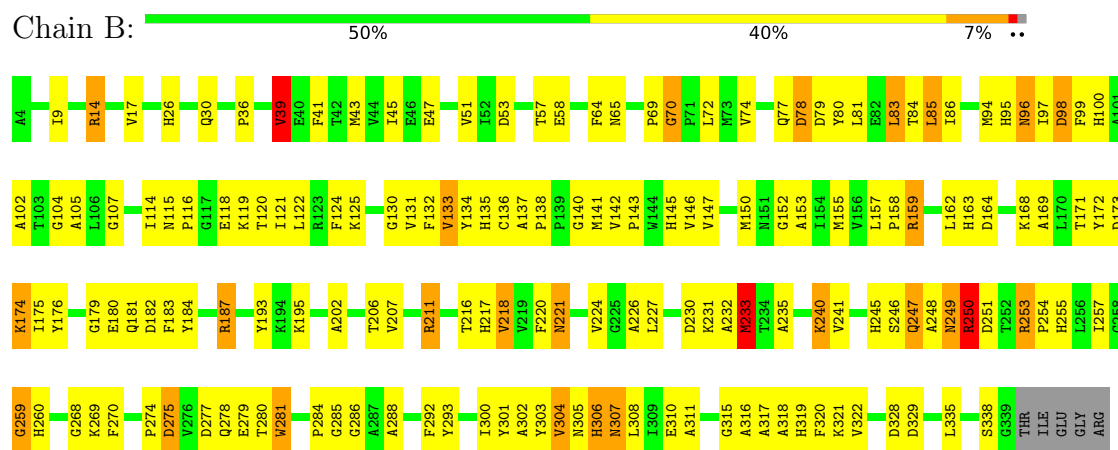


4.2.5 Score per residue for model 5

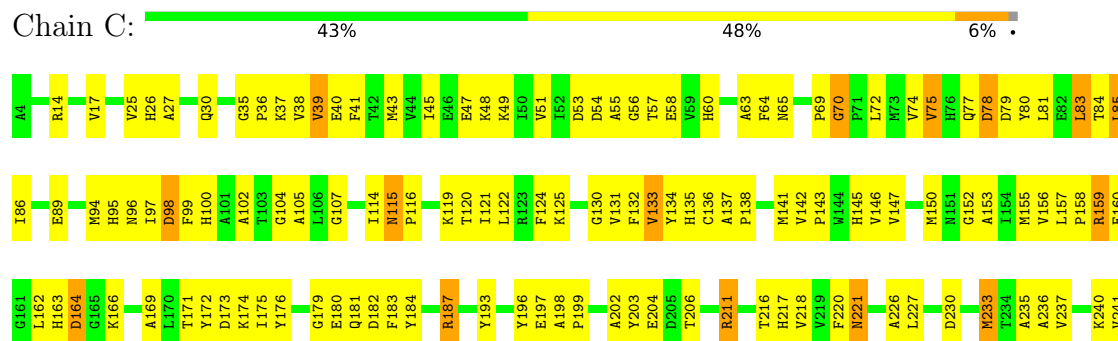
• Molecule 1: Copper-containing nitrite reductase

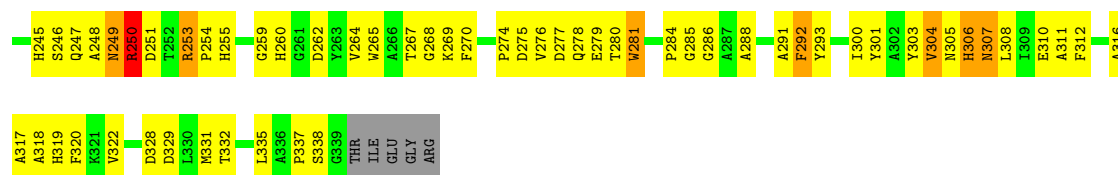


• Molecule 1: Copper-containing nitrite reductase

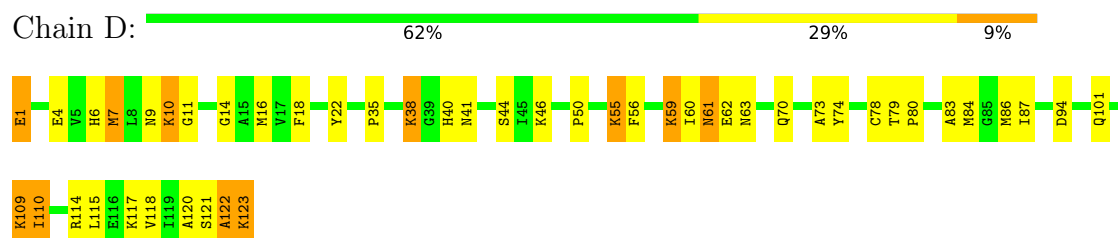


• Molecule 1: Copper-containing nitrite reductase



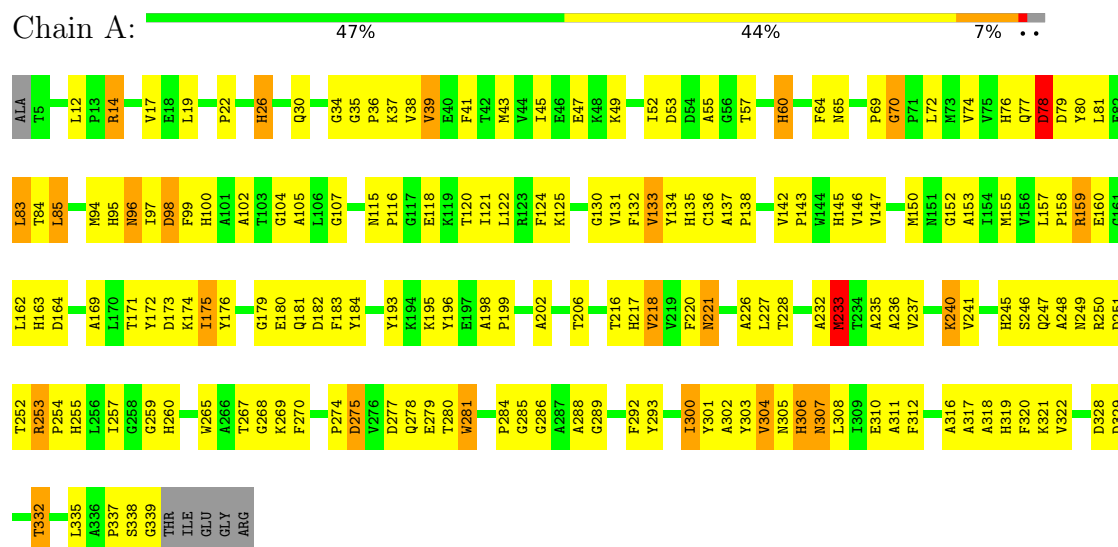


• Molecule 2: Pseudoazurin



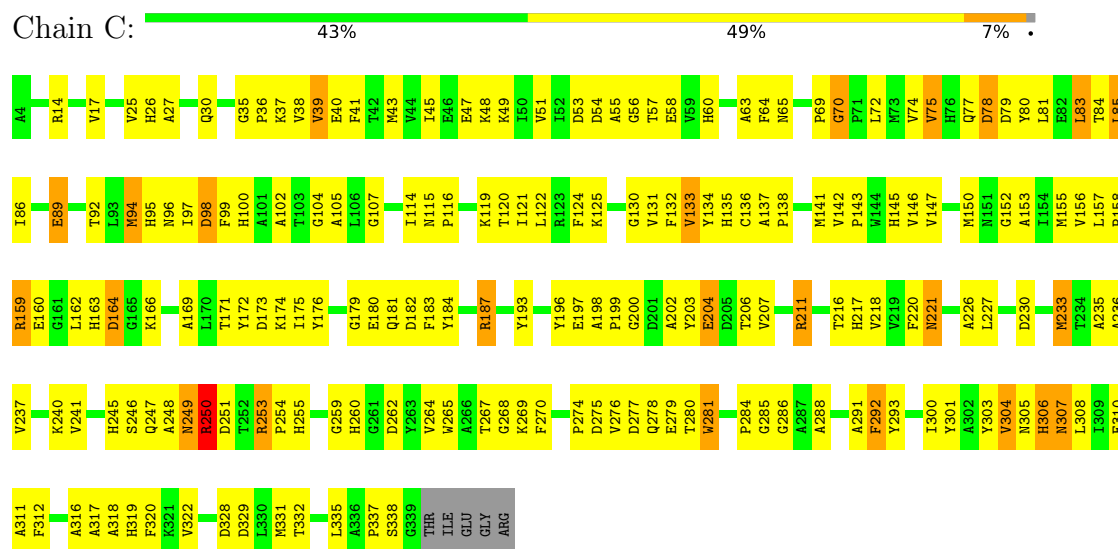
4.2.6 Score per residue for model 6

• Molecule 1: Copper-containing nitrite reductase

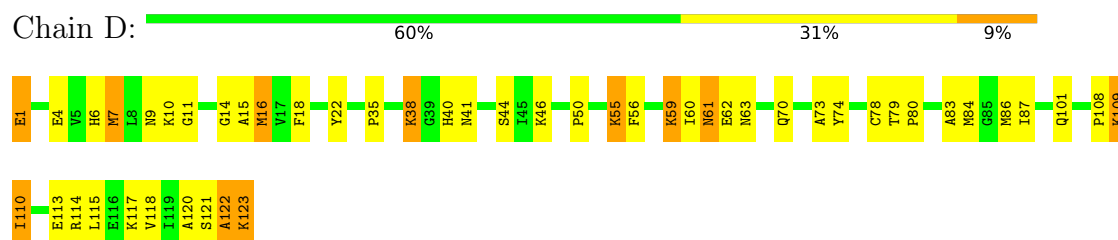




• Molecule 1: Copper-containing nitrite reductase

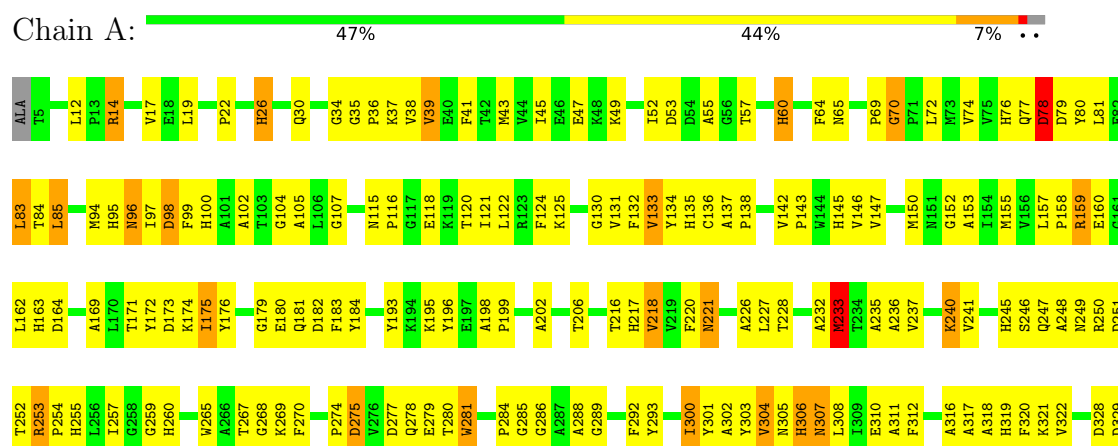


• Molecule 2: Pseudoazurin



4.2.7 Score per residue for model 7

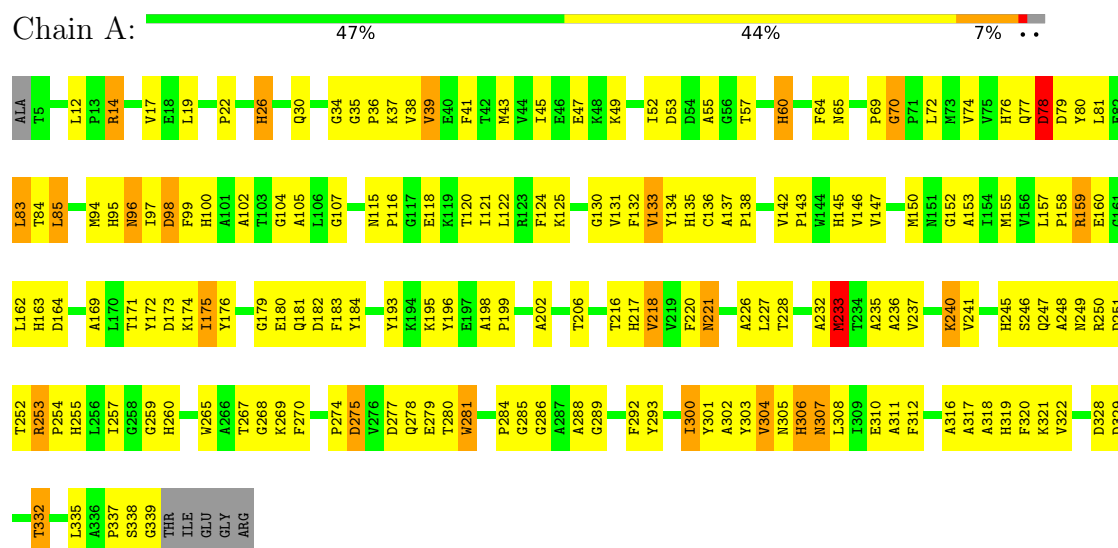
• Molecule 1: Copper-containing nitrite reductase



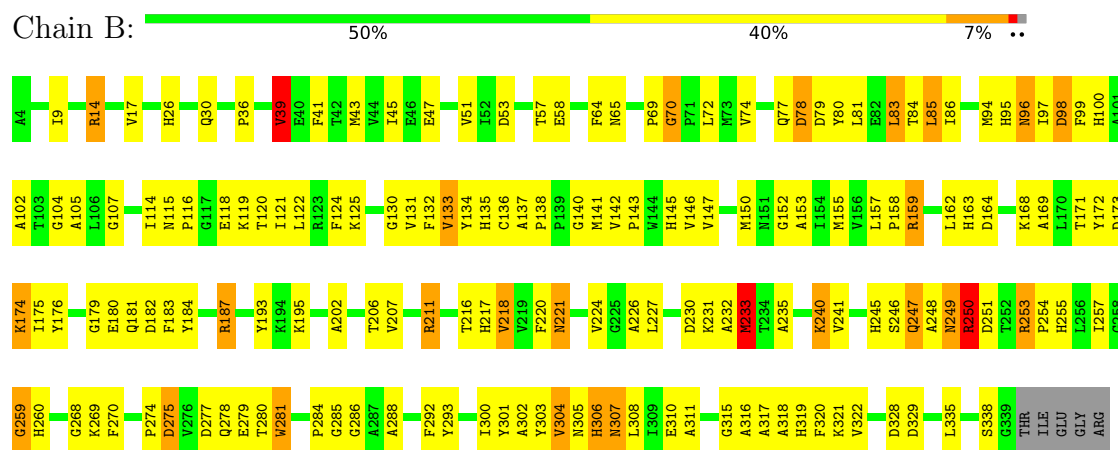


4.2.8 Score per residue for model 8

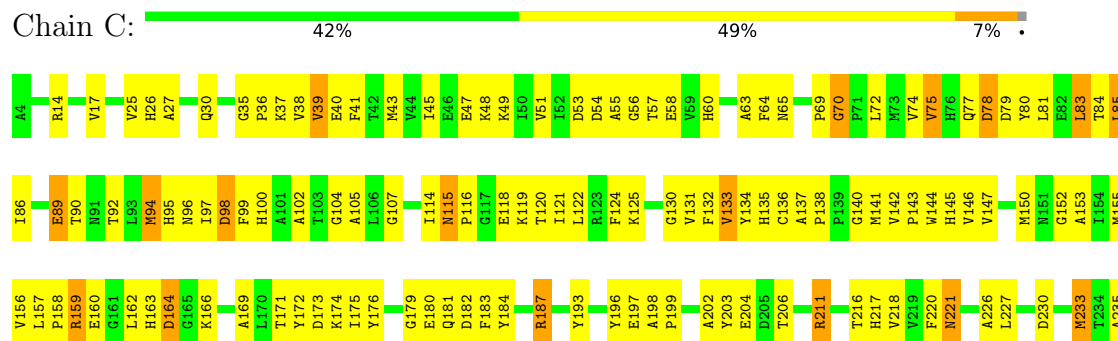
• Molecule 1: Copper-containing nitrite reductase

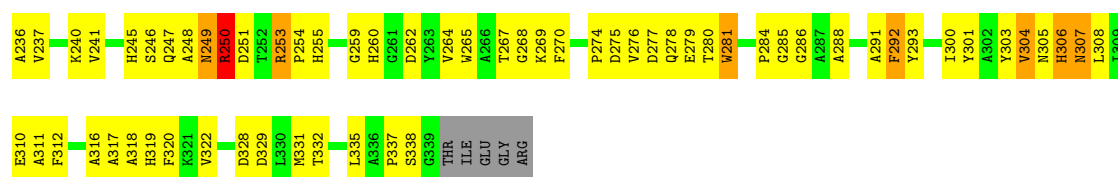


• Molecule 1: Copper-containing nitrite reductase



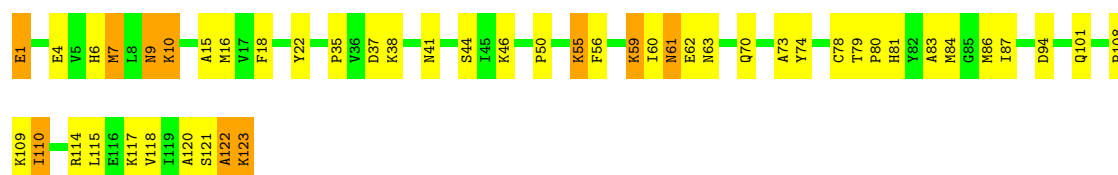
• Molecule 1: Copper-containing nitrite reductase





• Molecule 2: Pseudoazurin

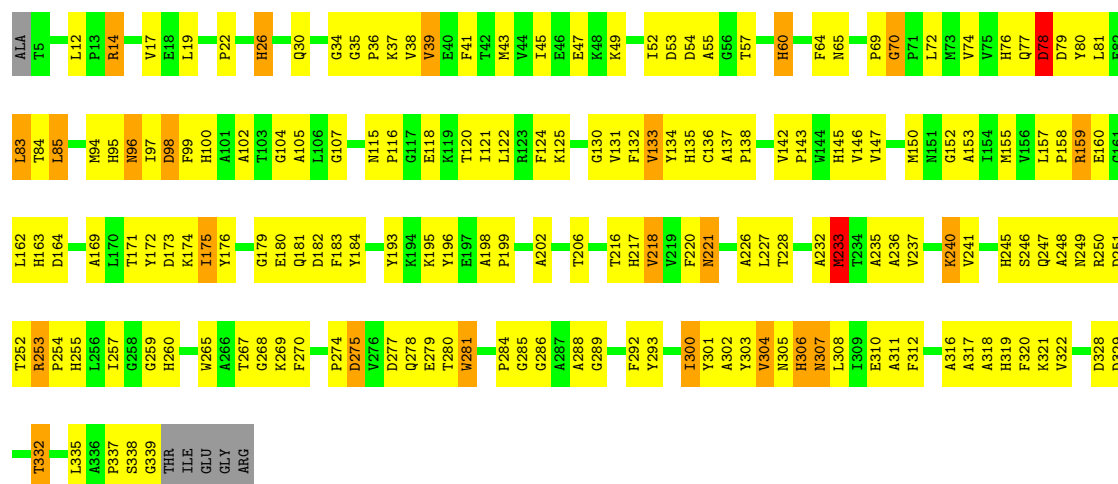
Chain D: 61% 31% 8%



4.2.9 Score per residue for model 9

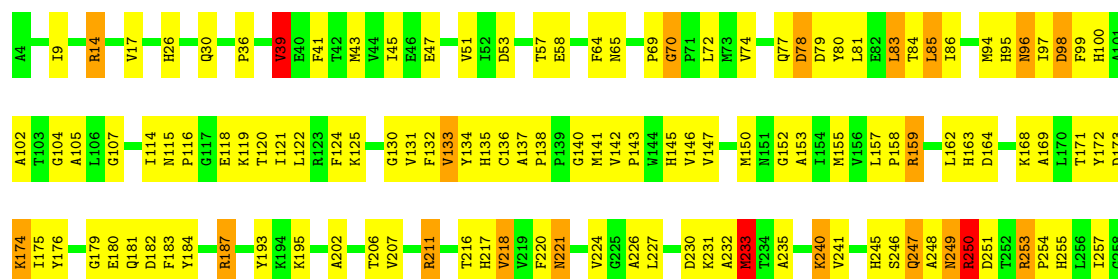
• Molecule 1: Copper-containing nitrite reductase

Chain A: 46% 45% 7% ..



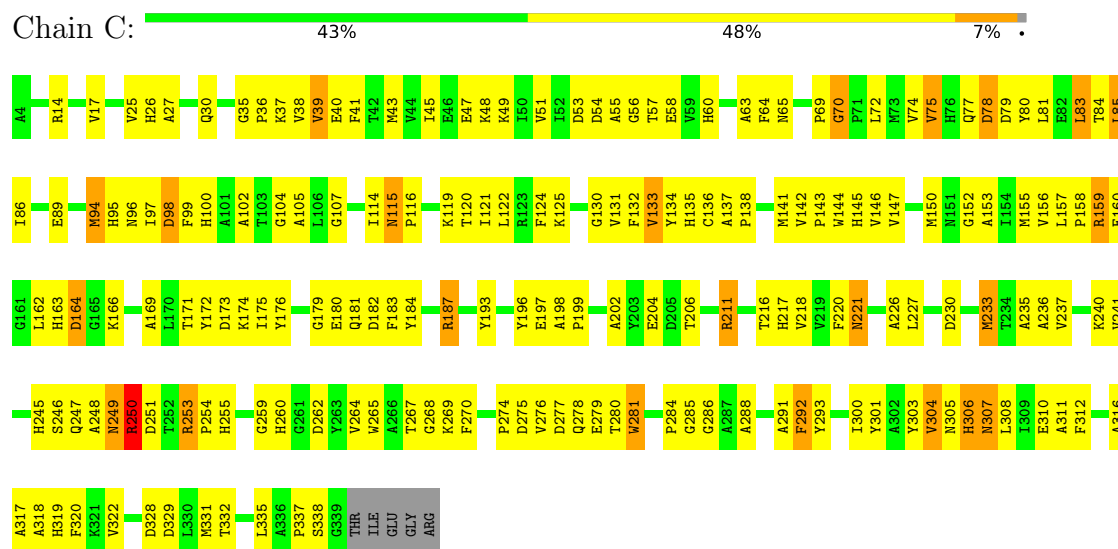
• Molecule 1: Copper-containing nitrite reductase

Chain B: 50% 40% 7% ..

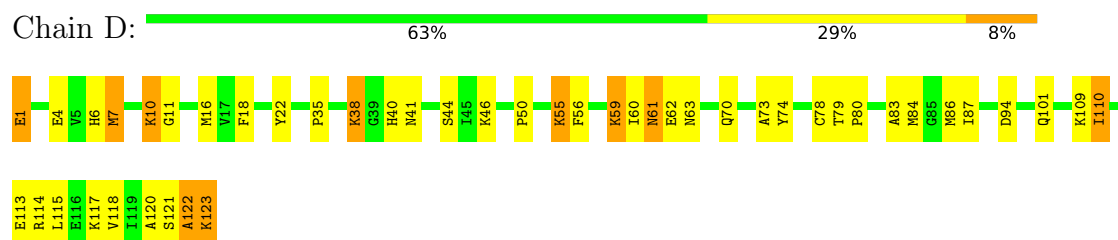




• Molecule 1: Copper-containing nitrite reductase

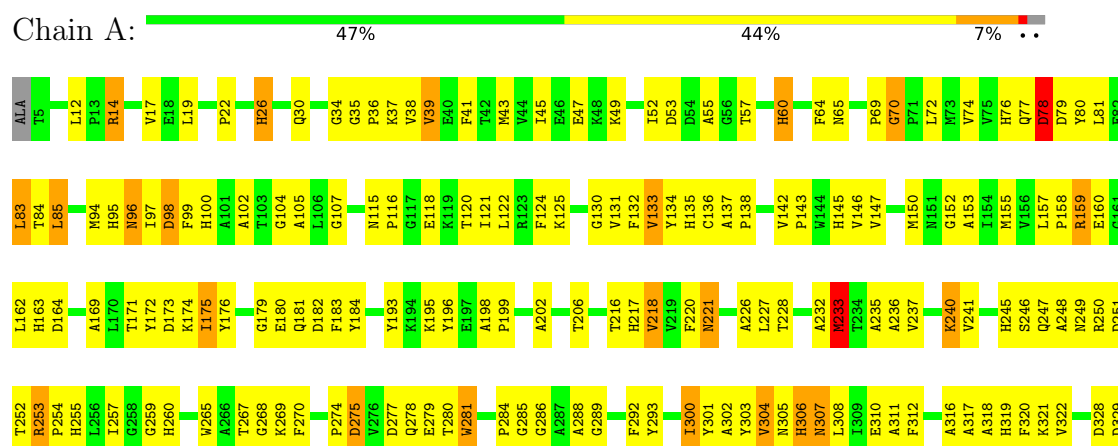


• Molecule 2: Pseudoazurin



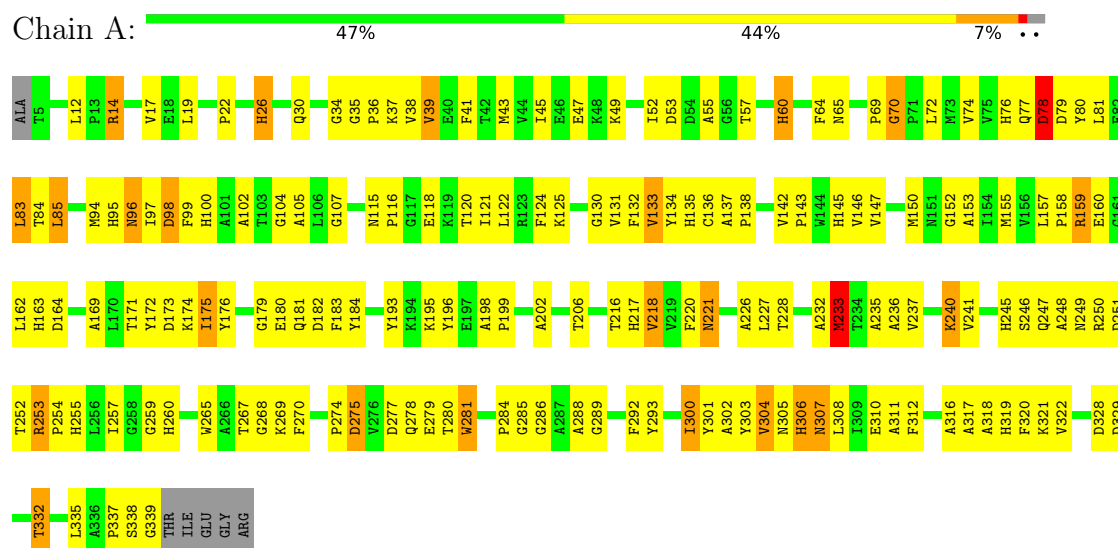
4.2.10 Score per residue for model 10

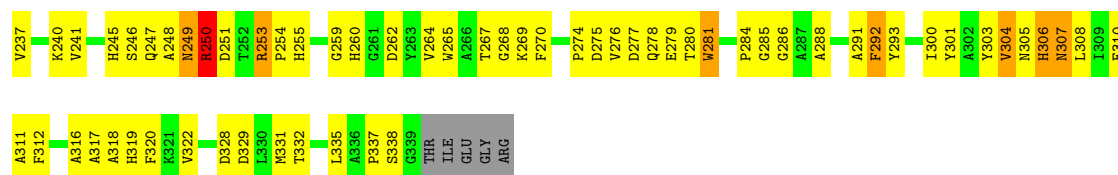
• Molecule 1: Copper-containing nitrite reductase



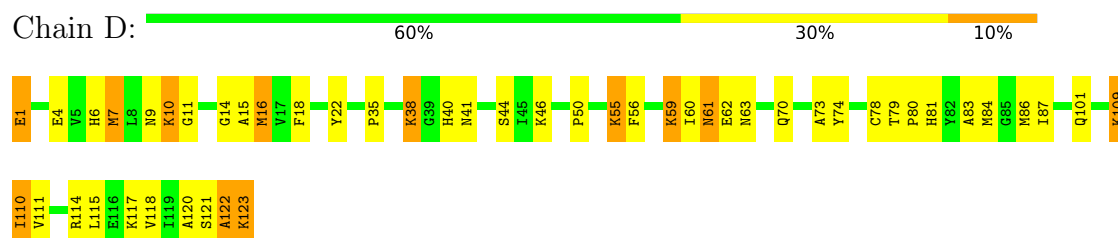
4.2.11 Score per residue for model 11

• Molecule 1: Copper-containing nitrite reductase



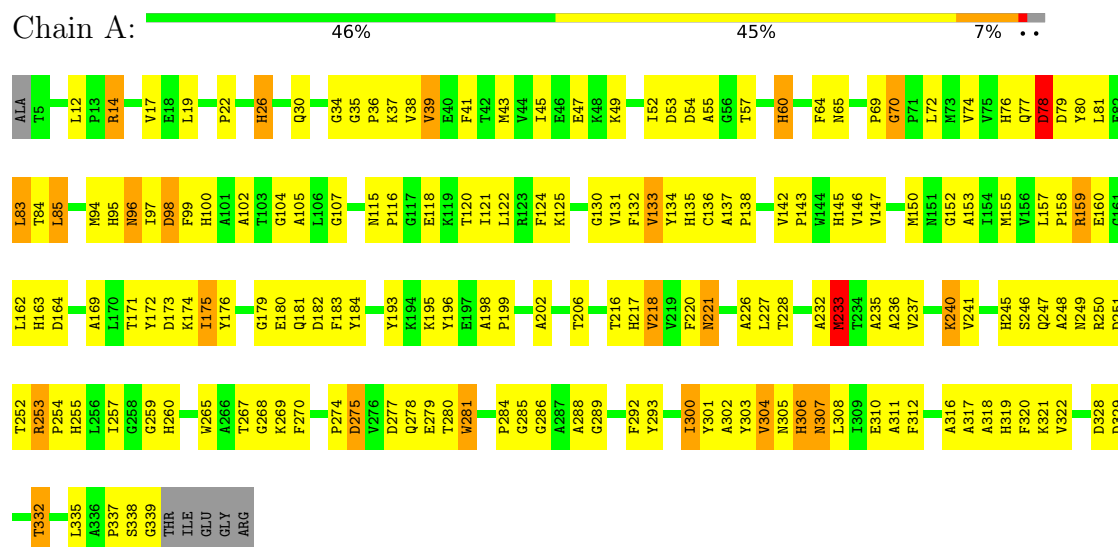


• Molecule 2: Pseudoazurin

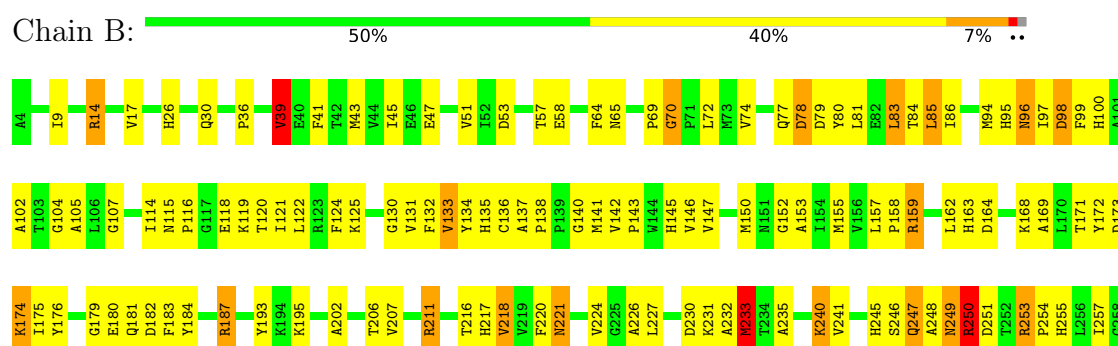


4.2.12 Score per residue for model 12

• Molecule 1: Copper-containing nitrite reductase



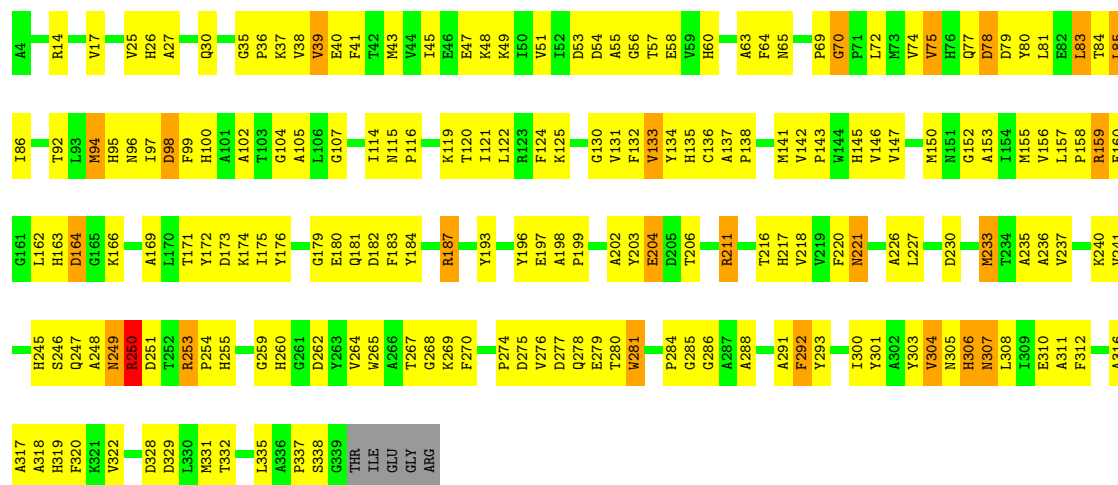
• Molecule 1: Copper-containing nitrite reductase





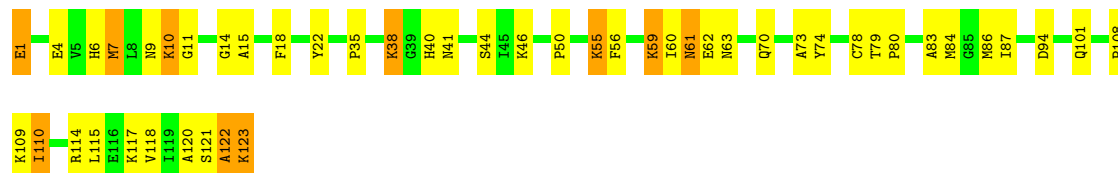
• Molecule 1: Copper-containing nitrite reductase

Chain C: 43% 48% 7%



• Molecule 2: Pseudoazurin

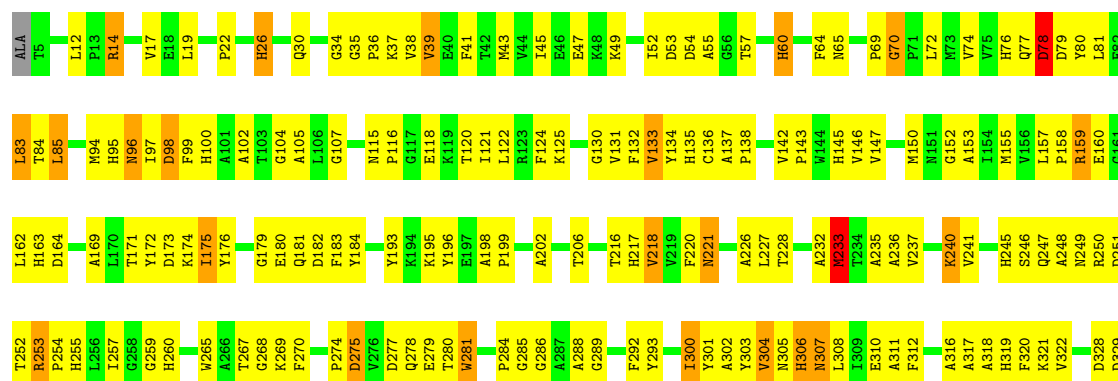
Chain D: 61% 31% 8%

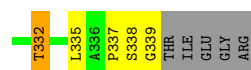


4.2.13 Score per residue for model 13

• Molecule 1: Copper-containing nitrite reductase

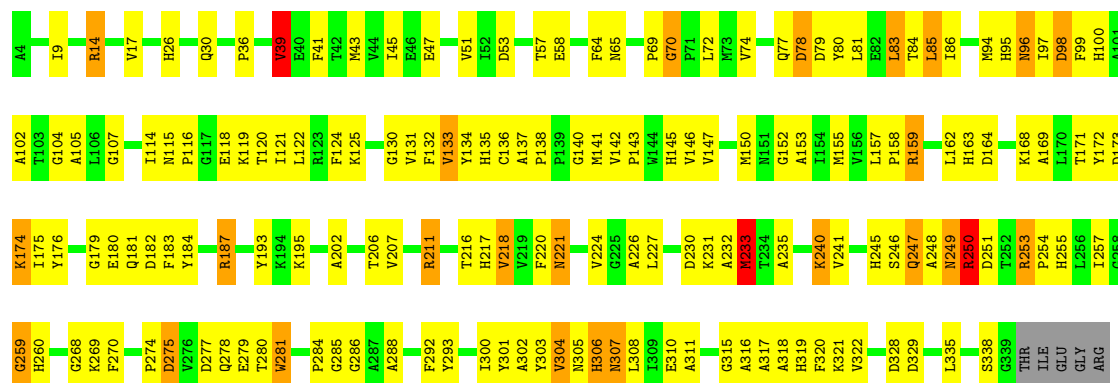
Chain A: 46% 45% 7% ..





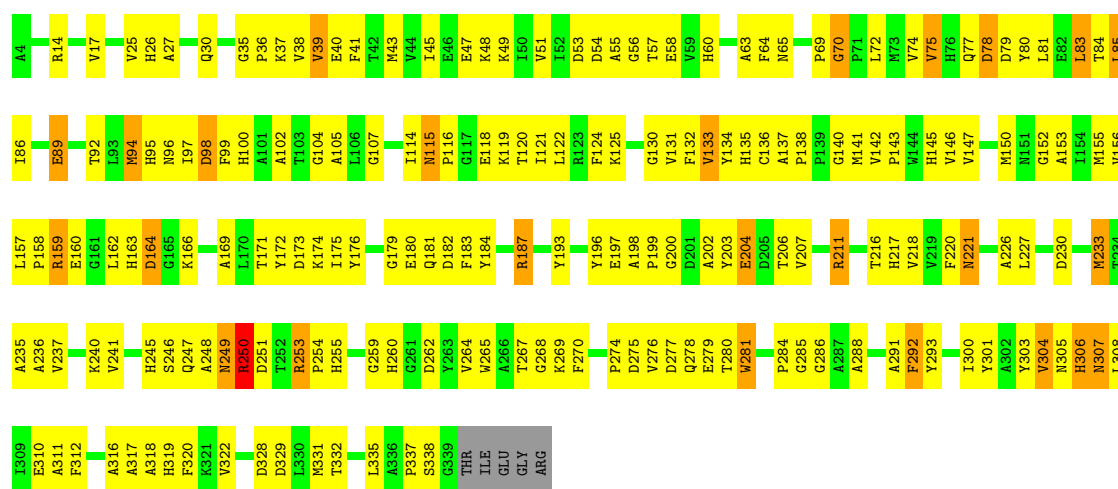
• Molecule 1: Copper-containing nitrite reductase

Chain B: 50% 40% 7% ..



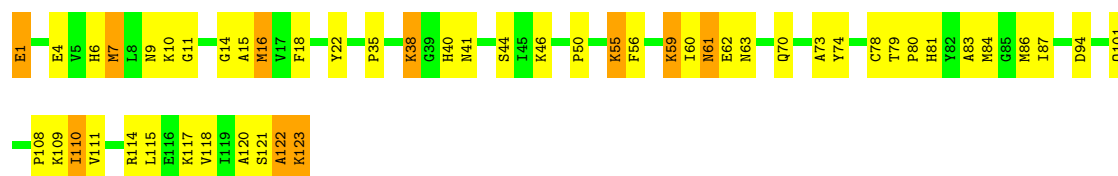
• Molecule 1: Copper-containing nitrite reductase

Chain C: 42% 49% 7% .

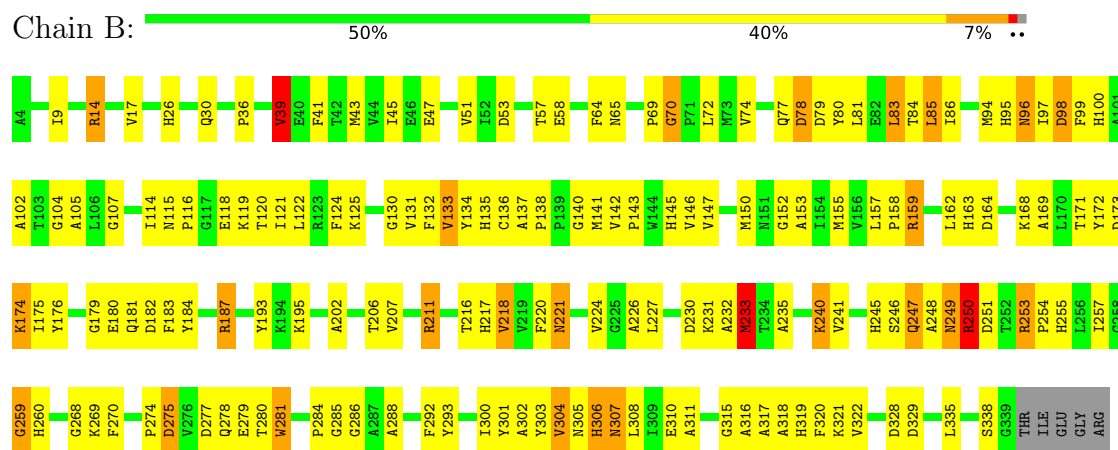
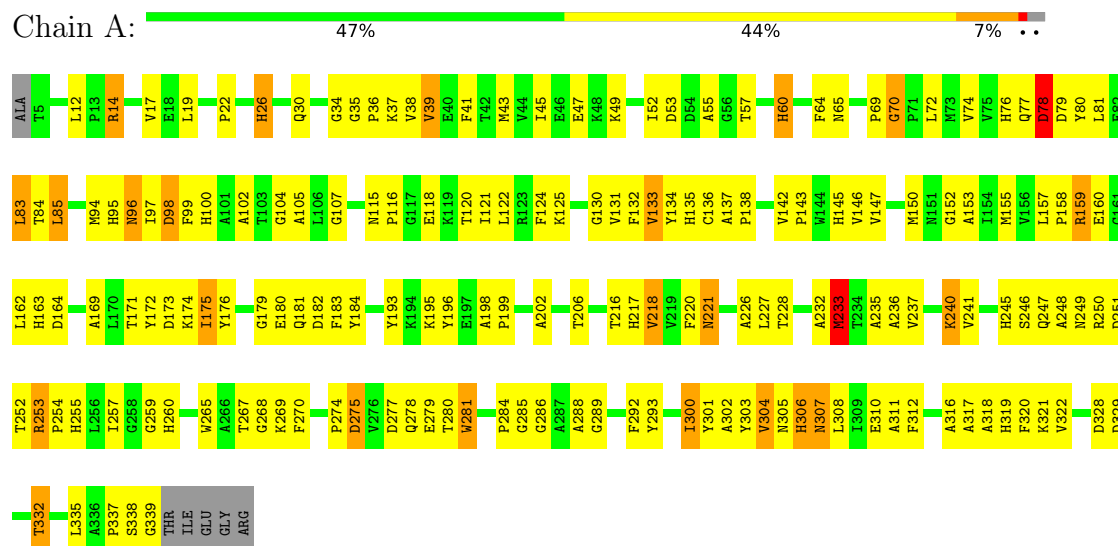


• Molecule 2: Pseudoazurin

Chain D: 59% 33% 8%



- Molecule 1: Copper-containing nitrite reductase

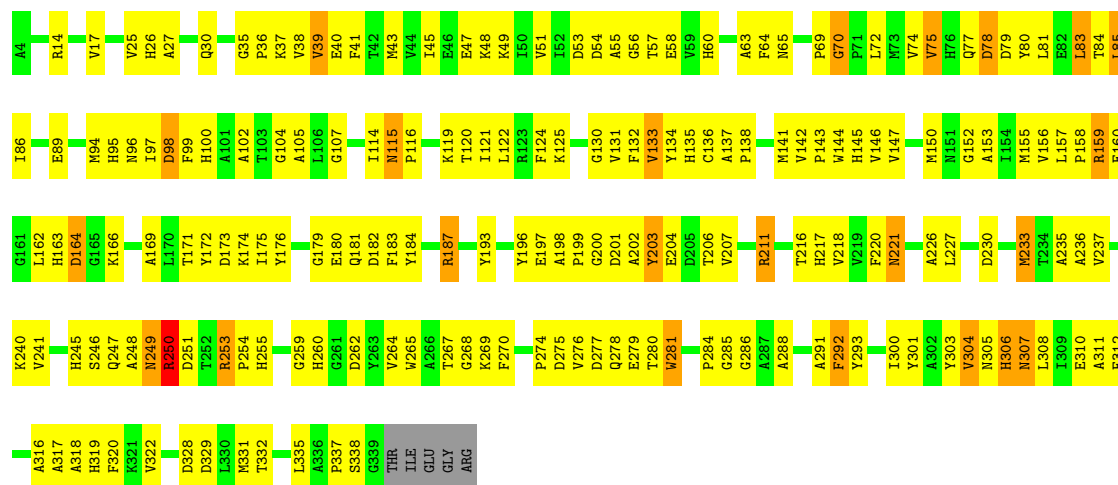






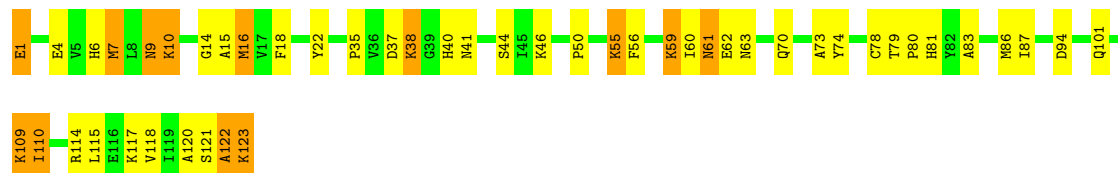
• Molecule 1: Copper-containing nitrite reductase

Chain C: 42% 49% 7%



• Molecule 2: Pseudoazurin

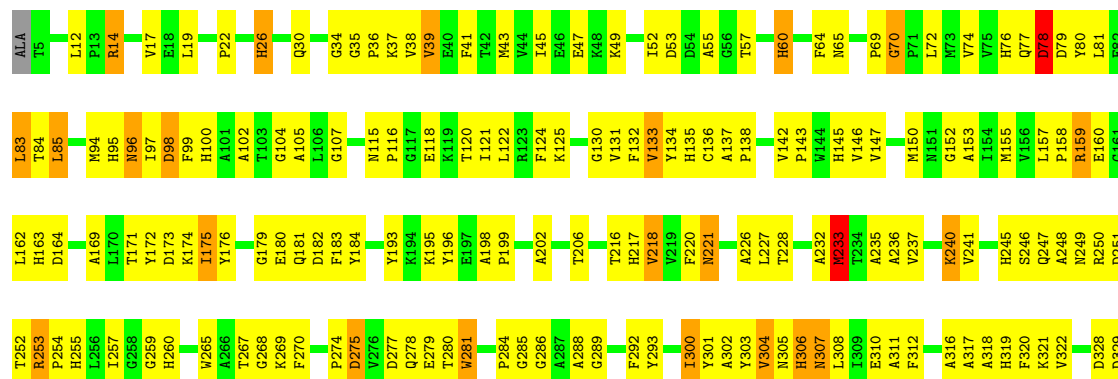
Chain D: 61% 28% 11%

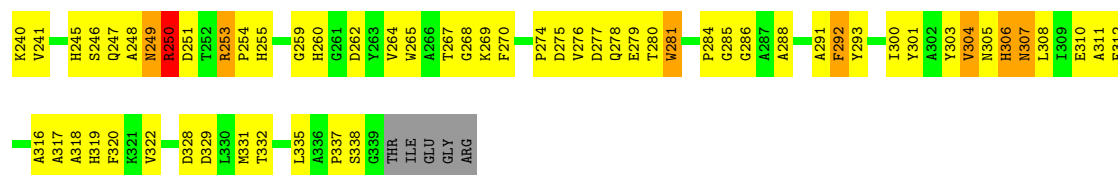


4.2.16 Score per residue for model 16

• Molecule 1: Copper-containing nitrite reductase

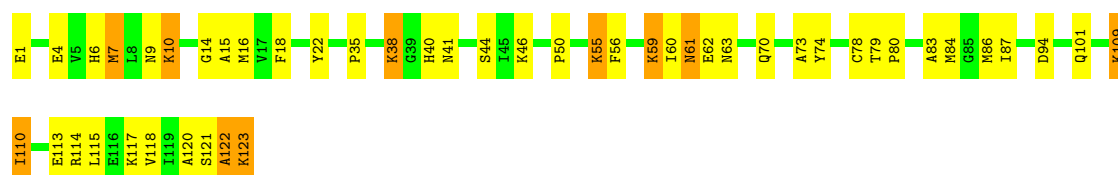
Chain A: 47% 44% 7%





• Molecule 2: Pseudoazurin

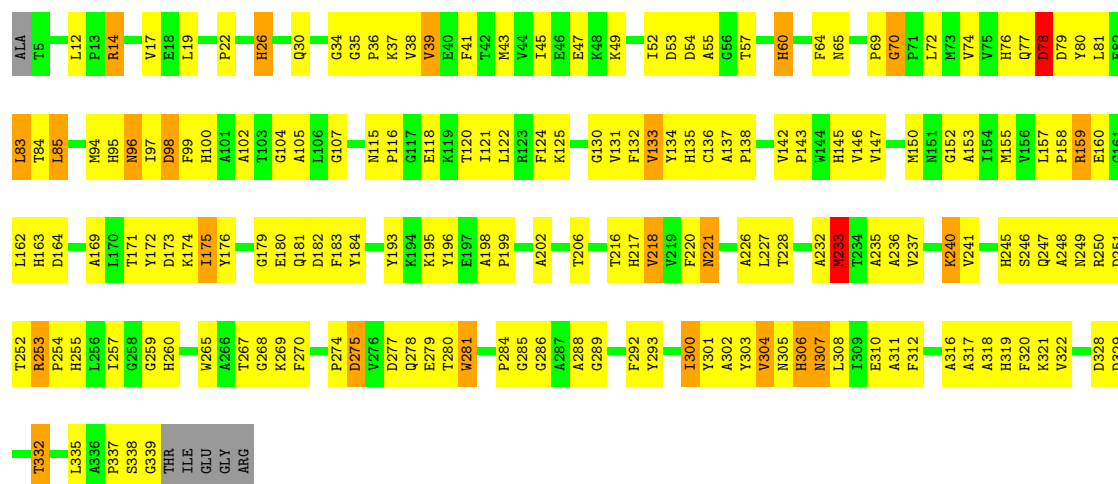
Chain D: 61% 31% 8%



4.2.18 Score per residue for model 18

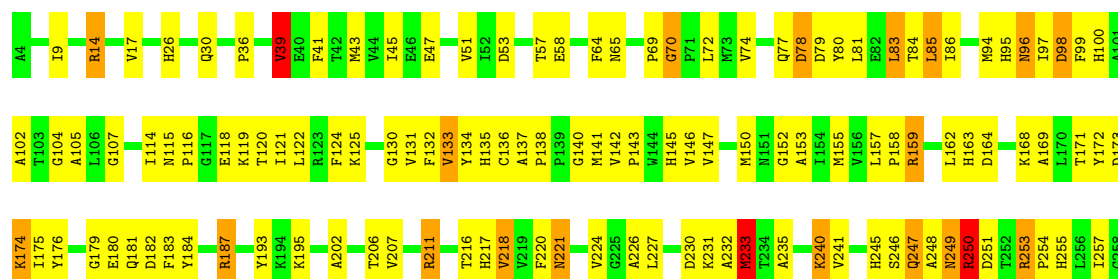
• Molecule 1: Copper-containing nitrite reductase

Chain A: 46% 45% 7% ..



• Molecule 1: Copper-containing nitrite reductase

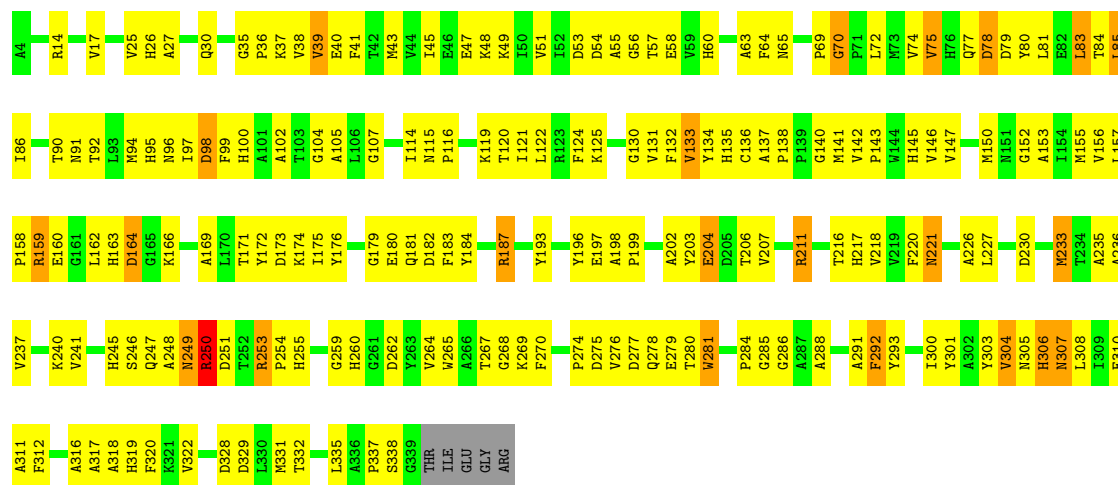
Chain B: 50% 40% 7% ..





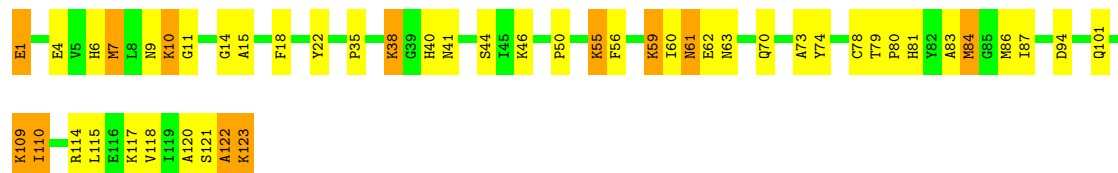
• Molecule 1: Copper-containing nitrite reductase

Chain C: 42% 50% 6% .



• Molecule 2: Pseudoazurin

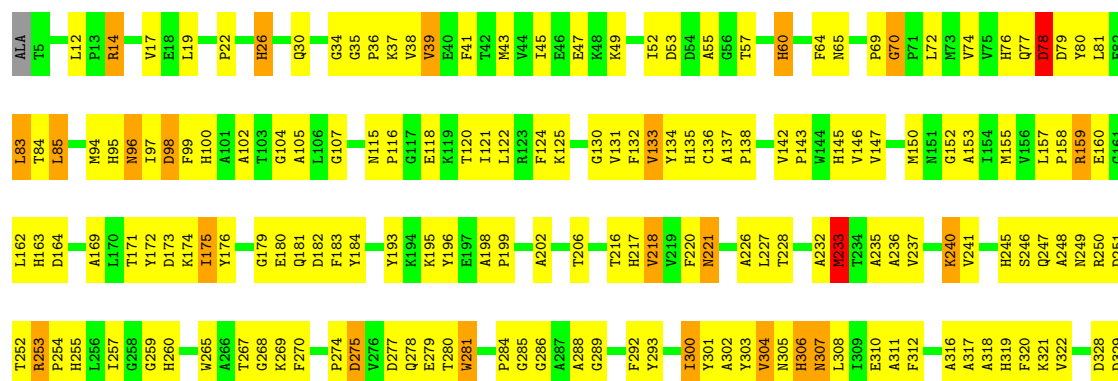
Chain D: 61% 29% 10%

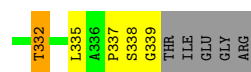


4.2.19 Score per residue for model 19

• Molecule 1: Copper-containing nitrite reductase

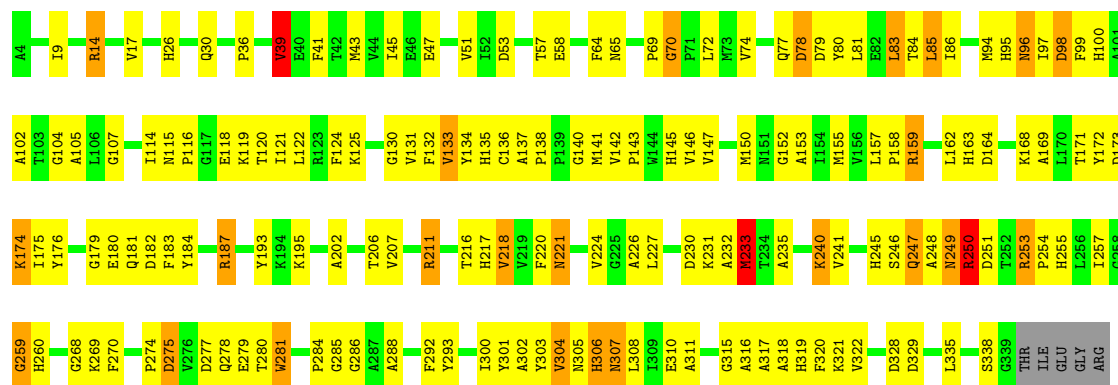
Chain A: 47% 44% 7% ..





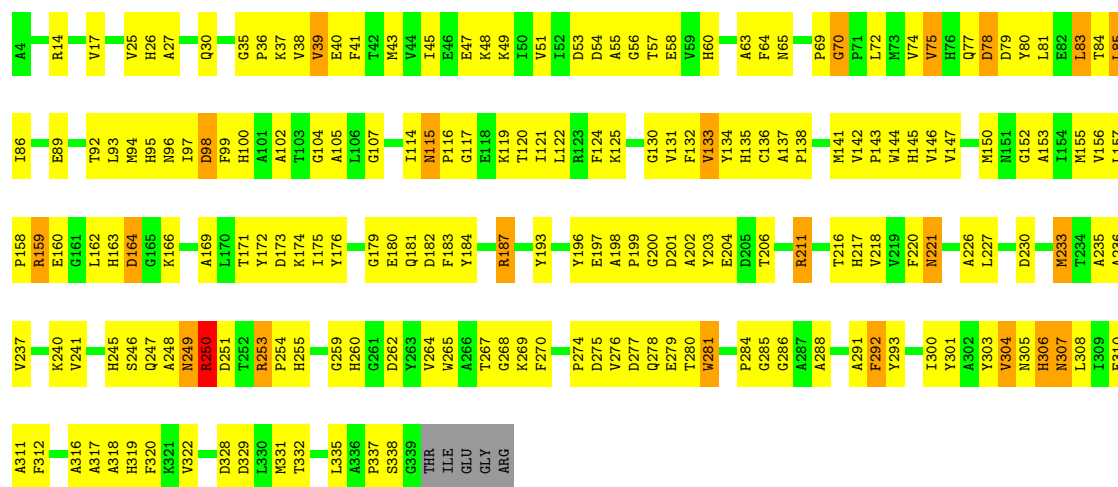
• Molecule 1: Copper-containing nitrite reductase

Chain B: 50% 40% 7% ..



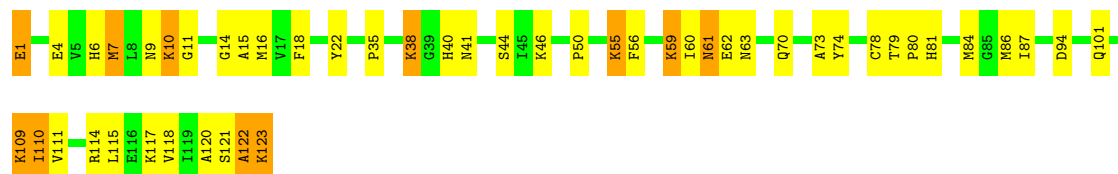
• Molecule 1: Copper-containing nitrite reductase

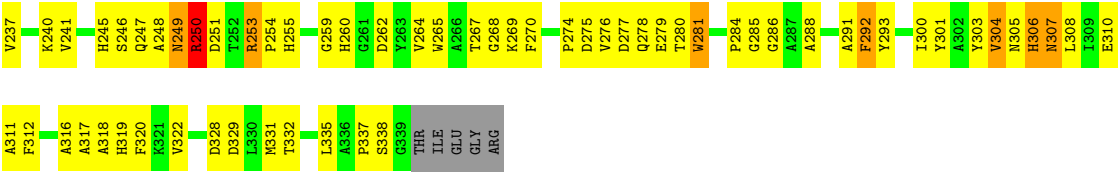
Chain C: 42% 50% 6% .



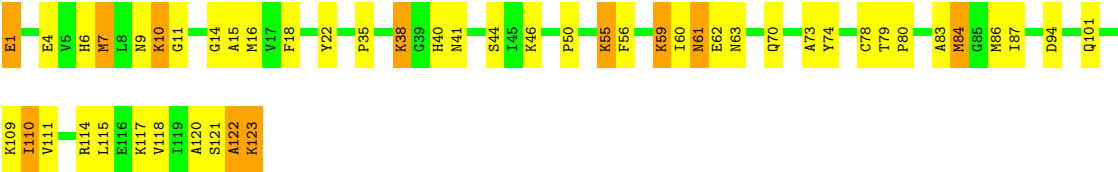
• Molecule 2: Pseudoazurin

Chain D: 60% 31% 9%





• Molecule 2: Pseudoazurin



5 Refinement protocol and experimental data overview

The models were refined using the following method: *distance geometry, rigid body molecular dynamics, restrained side-chains energy minimization*.

Of the 134 calculated structures, 20 were deposited, based on the following criterion: *structures closest to the average*.

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

Software name	Classification	Version
X-PLOR	structure solution	2.9.9
X-PLOR	refinement	2.9.9

No chemical shift data was provided.

6 Model quality

6.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GD, CU

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	1.56±0.00	2±0/2626 (0.1± 0.0%)	1.30±0.00	3±0/3581 (0.1± 0.0%)
1	B	1.55±0.00	4±0/2631 (0.2± 0.0%)	1.31±0.00	3±0/3588 (0.1± 0.0%)
1	C	1.56±0.00	4±0/2631 (0.2± 0.0%)	1.30±0.00	1±0/3588 (0.0± 0.0%)
2	D	0.66±0.00	0±0/954 (0.0± 0.0%)	1.50±0.00	3±0/1289 (0.2± 0.0%)
All	All	1.49	200/176840 (0.1%)	1.32	200/240920 (0.1%)

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	C	51	VAL	C-N	-7.05	1.25	1.33	1	20
1	B	51	VAL	C-N	-6.57	1.26	1.33	1	20
1	A	289	GLY	N-CA	5.79	1.49	1.44	1	20
1	B	85	LEU	C-N	-5.56	1.26	1.33	1	20
1	C	85	LEU	C-N	-5.50	1.26	1.33	1	20
1	A	85	LEU	C-N	-5.45	1.26	1.33	1	20
1	C	63	ALA	C-N	-5.21	1.26	1.33	1	20
1	B	39	VAL	C-N	-5.18	1.26	1.33	1	20
1	C	39	VAL	C-N	-5.11	1.26	1.33	1	20
1	B	259	GLY	N-CA	5.08	1.49	1.44	1	20

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
2	D	120	ALA	CA-C-N	7.93	133.41	122.79	12	20
2	D	120	ALA	C-N-CA	7.93	133.41	122.79	12	20
1	B	218	VAL	CA-C-N	-5.90	115.38	123.46	1	20
1	B	218	VAL	C-N-CA	-5.90	115.38	123.46	1	20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	C	306	HIS	CA-CB-CG	-5.73	108.07	113.80	20	20
1	A	218	VAL	CA-C-N	-5.63	115.75	123.46	1	20
1	A	218	VAL	C-N-CA	-5.63	115.75	123.46	1	20
1	A	306	HIS	CA-CB-CG	-5.35	108.45	113.80	1	20
2	D	61	ASN	N-CA-CB	-5.30	108.13	114.17	20	20
1	B	306	HIS	CA-CB-CG	-5.29	108.51	113.80	1	20

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	2555	2490	2480	358±2
1	B	2560	2495	2485	364±0
1	C	2560	2495	2485	415±30
2	D	937	964	963	107±29
All	All	172560	168880	168259	22208

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 65.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:94:MET:CB	2:D:83:ALA:HB1	1.43	1.43	7	9
1:C:141:MET:HE3	2:D:16:MET:SD	1.37	1.59	6	2
1:C:203:TYR:CG	2:D:15:ALA:HB2	1.36	1.54	18	7
1:C:94:MET:HE1	1:C:95:HIS:O	1.33	1.22	7	1
1:C:141:MET:SD	2:D:84:MET:SD	1.31	2.28	8	12
1:C:141:MET:SD	2:D:84:MET:HE1	1.30	1.66	2	11
1:A:255:HIS:CE1	1:C:100:HIS:CE1	1.29	2.21	19	20
1:C:92:THR:O	2:D:110:ILE:CG2	1.27	1.83	17	2
1:C:89:GLU:C	2:D:109:LYS:HZ3	1.26	1.37	1	7
1:B:233:MET:SD	1:B:320:PHE:CZ	1.26	2.28	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:92:THR:O	2:D:110:ILE:HB	1.25	1.31	7	9
1:C:94:MET:SD	2:D:84:MET:CG	1.24	2.25	6	3
1:C:92:THR:O	2:D:110:ILE:CB	1.23	1.86	7	8
1:C:94:MET:SD	1:C:94:MET:O	1.22	1.97	6	10
1:C:92:THR:OG1	2:D:110:ILE:HD13	1.22	1.29	7	3
1:C:141:MET:SD	2:D:16:MET:HE1	1.21	1.74	16	1
1:C:204:GLU:N	2:D:10:LYS:HG2	1.21	1.47	11	2
1:C:204:GLU:CD	2:D:10:LYS:NZ	1.21	1.98	18	1
1:C:141:MET:SD	2:D:84:MET:CE	1.20	2.29	1	13
1:C:203:TYR:CD1	2:D:15:ALA:HB2	1.20	1.70	17	3
2:D:10:LYS:NZ	2:D:14:GLY:O	1.20	1.71	20	1
1:C:89:GLU:C	2:D:109:LYS:NZ	1.19	1.99	1	5
1:C:203:TYR:CD2	2:D:15:ALA:HB2	1.18	1.71	12	7
1:B:233:MET:SD	1:B:320:PHE:CE1	1.17	2.37	1	20
2:D:10:LYS:NZ	2:D:11:GLY:O	1.17	1.78	11	11
1:C:204:GLU:H	2:D:10:LYS:CE	1.17	1.52	11	1
1:C:115:ASN:OD1	2:D:83:ALA:CB	1.16	1.91	6	3
1:C:94:MET:CB	2:D:83:ALA:CB	1.15	2.22	7	7
1:A:54:ASP:OD2	2:D:38:LYS:CD	1.15	1.94	17	5
1:C:115:ASN:ND2	2:D:83:ALA:HB1	1.15	1.57	6	8
1:C:94:MET:HB2	1:C:115:ASN:ND2	1.15	1.55	6	2
1:C:94:MET:CE	1:C:95:HIS:O	1.14	1.95	7	1
1:C:141:MET:SD	2:D:15:ALA:HB1	1.14	1.82	11	2
1:C:94:MET:CB	1:C:115:ASN:ND2	1.14	2.10	6	2
1:C:204:GLU:CB	2:D:10:LYS:HZ3	1.14	1.56	18	1
1:C:116:PRO:O	2:D:109:LYS:CB	1.13	1.95	13	3
1:C:115:ASN:CG	2:D:83:ALA:HB1	1.13	1.69	6	5
1:C:115:ASN:ND2	2:D:83:ALA:O	1.13	1.81	11	1
1:A:54:ASP:OD2	2:D:38:LYS:CG	1.13	1.96	17	5
1:C:89:GLU:O	2:D:109:LYS:NZ	1.12	1.83	8	6
1:C:233:MET:SD	1:C:320:PHE:CZ	1.12	2.43	1	20
1:C:201:ASP:OD1	2:D:10:LYS:NZ	1.11	1.83	16	1
1:C:92:THR:O	2:D:110:ILE:CG1	1.11	1.96	7	8
1:A:259:GLY:C	1:A:260:HIS:ND1	1.11	2.07	1	20
2:D:10:LYS:CD	2:D:11:GLY:N	1.10	2.14	11	5
1:C:141:MET:HE1	2:D:15:ALA:HB1	1.09	1.16	13	5
1:C:200:GLY:CA	2:D:14:GLY:HA2	1.09	1.75	11	2
2:D:50:PRO:CD	2:D:74:TYR:CZ	1.09	2.35	9	20
1:C:204:GLU:N	2:D:10:LYS:HG3	1.09	1.61	2	7
1:A:54:ASP:OD2	2:D:38:LYS:NZ	1.08	1.85	18	4
2:D:50:PRO:CG	2:D:74:TYR:CE1	1.08	2.37	3	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:155:MET:HE3	1:B:157:LEU:HD11	1.07	1.08	1	20
1:C:94:MET:SD	1:C:94:MET:C	1.07	2.38	12	16
1:C:203:TYR:CD2	2:D:15:ALA:CB	1.06	2.38	7	7
1:A:77:GLN:O	1:A:78:ASP:CG	1.06	1.98	1	20
1:C:115:ASN:ND2	2:D:83:ALA:CB	1.06	2.16	6	11
1:C:115:ASN:HD21	2:D:83:ALA:CB	1.06	1.63	11	4
1:C:94:MET:CG	2:D:83:ALA:HB1	1.06	1.79	7	5
1:C:116:PRO:O	2:D:109:LYS:HB3	1.06	1.49	13	5
1:A:306:HIS:O	1:A:308:LEU:N	1.05	1.90	1	20
1:C:92:THR:OG1	2:D:110:ILE:CD1	1.05	2.05	4	3
1:C:94:MET:HB2	2:D:83:ALA:CB	1.05	1.81	7	3
1:B:286:GLY:CA	1:C:306:HIS:ND1	1.04	2.19	1	20
1:C:94:MET:HB3	2:D:83:ALA:HB1	1.04	1.12	8	4
1:B:307:ASN:CB	1:B:310:GLU:CD	1.04	2.31	1	20
1:C:203:TYR:CD2	2:D:10:LYS:HB2	1.04	1.87	11	2
1:C:92:THR:O	2:D:110:ILE:HG22	1.04	1.53	17	2
1:B:306:HIS:O	1:B:308:LEU:N	1.04	1.90	1	20
1:C:94:MET:O	1:C:94:MET:SD	1.04	2.15	13	4
2:D:10:LYS:CD	2:D:10:LYS:C	1.03	2.27	11	5
1:A:233:MET:SD	1:A:320:PHE:CZ	1.03	2.51	1	20
1:A:307:ASN:ND2	1:A:310:GLU:OE2	1.03	1.91	1	20
1:B:77:GLN:O	1:B:78:ASP:CG	1.03	2.00	1	20
1:A:306:HIS:ND1	1:C:286:GLY:CA	1.03	2.22	1	20
1:C:94:MET:HB3	2:D:83:ALA:CB	1.03	1.84	8	5
1:C:141:MET:HE2	1:C:203:TYR:CE2	1.03	1.88	16	3
1:C:91:ASN:O	2:D:109:LYS:CB	1.03	2.06	17	2
1:C:94:MET:HB2	2:D:83:ALA:HB1	1.03	1.03	7	8
1:C:141:MET:CE	2:D:15:ALA:HB1	1.03	1.83	7	6
1:A:286:GLY:CA	1:B:306:HIS:ND1	1.03	2.21	1	20
1:B:100:HIS:CE1	1:C:255:HIS:CE1	1.03	2.47	1	20
1:C:306:HIS:O	1:C:308:LEU:N	1.02	1.93	1	20
1:B:72:LEU:HD12	1:B:153:ALA:O	1.02	1.53	1	20
1:C:115:ASN:HD21	2:D:83:ALA:HB1	1.02	0.88	11	1
1:C:77:GLN:O	1:C:78:ASP:CG	1.01	2.02	1	20
1:A:159:ARG:HH11	1:A:159:ARG:CG	1.01	1.67	1	20
2:D:10:LYS:NZ	2:D:11:GLY:H	1.01	1.53	20	1
2:D:50:PRO:HD2	2:D:74:TYR:CZ	1.01	1.90	9	20
1:B:304:VAL:HB	1:B:316:ALA:O	1.00	1.56	1	20
1:C:115:ASN:HD22	2:D:83:ALA:CB	1.00	1.69	14	3
1:C:204:GLU:CB	2:D:10:LYS:HE2	1.00	1.86	20	3
1:B:100:HIS:O	1:C:260:HIS:NE2	1.00	1.95	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:141:MET:CE	2:D:16:MET:SD	1.00	2.48	6	3
1:C:204:GLU:N	2:D:10:LYS:CG	1.00	2.25	1	5
1:A:304:VAL:HB	1:A:316:ALA:O	0.99	1.57	1	20
1:C:141:MET:HE1	2:D:9:ASN:O	0.99	1.57	11	2
1:C:92:THR:CB	2:D:110:ILE:HD13	0.99	1.87	7	3
1:C:94:MET:SD	2:D:84:MET:HG3	0.99	1.97	6	1
1:C:307:ASN:ND2	1:C:310:GLU:OE2	0.99	1.94	1	20
1:C:203:TYR:CG	2:D:15:ALA:CB	0.99	2.45	18	2
1:C:115:ASN:CG	2:D:83:ALA:CB	0.99	2.33	6	4
1:C:94:MET:SD	1:C:95:HIS:N	0.98	2.35	7	9
1:A:233:MET:SD	1:A:320:PHE:CE2	0.98	2.57	1	20
1:C:304:VAL:HB	1:C:316:ALA:O	0.98	1.58	1	20
2:D:10:LYS:HD2	2:D:11:GLY:N	0.98	1.74	3	14
1:C:94:MET:SD	2:D:84:MET:HG2	0.98	1.97	6	3
2:D:9:ASN:OD1	2:D:37:ASP:CB	0.98	2.12	15	3
1:C:94:MET:HE1	1:C:95:HIS:C	0.97	1.82	7	1
1:C:115:ASN:OD1	1:C:118:GLU:OE1	0.97	1.82	14	6
1:A:174:LYS:HG2	1:A:241:VAL:HG22	0.97	1.36	1	20
1:C:162:LEU:HD22	1:C:270:PHE:CE1	0.97	1.94	1	20
1:A:162:LEU:HD22	1:A:270:PHE:CE1	0.97	1.95	1	20
1:B:162:LEU:HD22	1:B:270:PHE:CE1	0.96	1.95	1	20
1:C:200:GLY:HA3	2:D:14:GLY:CA	0.96	1.90	11	3
1:A:286:GLY:HA3	1:B:306:HIS:ND1	0.96	1.76	1	20
1:C:204:GLU:HB3	2:D:10:LYS:CD	0.96	1.90	18	2
2:D:50:PRO:HG2	2:D:74:TYR:CZ	0.96	1.96	6	20
2:D:109:LYS:NZ	2:D:113:GLU:OE2	0.96	1.97	10	1
1:C:91:ASN:O	2:D:109:LYS:HB3	0.96	1.59	17	2
1:A:259:GLY:O	1:A:260:HIS:ND1	0.96	1.99	1	20
1:A:306:HIS:O	1:A:307:ASN:C	0.96	2.08	1	20
1:C:203:TYR:CD1	2:D:15:ALA:CB	0.96	2.48	17	2
1:B:286:GLY:HA2	1:C:306:HIS:CE1	0.95	1.94	1	20
1:C:47:GLU:OE2	1:C:95:HIS:NE2	0.95	1.98	2	20
1:C:115:ASN:N	1:C:115:ASN:HD22	0.95	1.59	15	1
1:A:306:HIS:CE1	1:C:286:GLY:HA2	0.95	1.97	1	20
1:A:286:GLY:HA2	1:B:306:HIS:CE1	0.95	1.96	1	20
1:C:200:GLY:O	2:D:10:LYS:CG	0.95	2.15	19	3
2:D:10:LYS:CE	2:D:11:GLY:O	0.95	2.14	16	3
1:C:204:GLU:N	2:D:10:LYS:CE	0.95	2.30	11	1
1:C:201:ASP:O	2:D:10:LYS:NZ	0.95	2.00	15	1
2:D:50:PRO:CG	2:D:74:TYR:CZ	0.94	2.51	6	20
1:A:306:HIS:ND1	1:C:286:GLY:HA3	0.94	1.77	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:D:10:LYS:HD3	2:D:11:GLY:N	0.94	1.77	11	3
1:A:64:PHE:CZ	1:A:150:MET:HE2	0.94	1.97	1	20
2:D:10:LYS:HZ2	2:D:14:GLY:CA	0.94	1.75	12	3
1:A:307:ASN:CG	1:A:310:GLU:CD	0.94	2.35	1	20
2:D:50:PRO:HG2	2:D:74:TYR:CE1	0.94	1.98	8	20
1:C:89:GLU:O	2:D:109:LYS:CE	0.94	2.15	6	5
1:B:193:TYR:OH	1:B:217:HIS:CE1	0.93	2.21	1	20
1:B:286:GLY:HA3	1:C:306:HIS:ND1	0.93	1.76	1	20
1:C:141:MET:HE2	1:C:203:TYR:CZ	0.93	1.97	16	2
1:A:251:ASP:OD1	1:A:285:GLY:N	0.93	2.01	1	20
1:C:233:MET:SD	1:C:320:PHE:CE2	0.93	2.62	1	20
1:C:115:ASN:OD1	1:C:115:ASN:N	0.93	2.02	16	9
1:C:92:THR:C	2:D:110:ILE:HB	0.93	1.88	7	2
1:B:64:PHE:CZ	1:B:150:MET:HE2	0.93	1.99	1	20
1:C:141:MET:CG	2:D:16:MET:HE2	0.93	1.94	15	5
1:B:233:MET:CE	1:B:233:MET:H	0.92	1.77	1	20
1:B:306:HIS:O	1:B:307:ASN:C	0.92	2.06	1	20
2:D:10:LYS:C	2:D:10:LYS:HE3	0.92	1.89	20	1
1:C:45:ILE:HD11	1:C:85:LEU:HD21	0.92	1.40	1	20
1:C:204:GLU:H	2:D:10:LYS:HE2	0.92	1.23	11	5
1:C:141:MET:SD	2:D:16:MET:CE	0.92	2.56	16	2
2:D:50:PRO:HD2	2:D:74:TYR:CE2	0.92	1.99	16	20
1:B:307:ASN:ND2	1:B:310:GLU:OE2	0.92	2.03	1	20
1:C:203:TYR:CZ	2:D:9:ASN:HB3	0.92	1.99	15	1
1:C:115:ASN:ND2	2:D:83:ALA:CA	0.91	2.33	13	4
1:C:203:TYR:CD1	2:D:10:LYS:HB2	0.91	2.00	6	3
1:B:307:ASN:CG	1:B:310:GLU:CD	0.91	2.38	1	20
1:C:94:MET:C	1:C:94:MET:HE3	0.91	1.89	7	1
1:C:115:ASN:OD1	2:D:83:ALA:CA	0.91	2.19	6	1
1:C:200:GLY:CA	2:D:14:GLY:CA	0.91	2.47	11	2
1:C:94:MET:CG	2:D:83:ALA:CB	0.91	2.47	8	3
1:C:144:TRP:CG	1:C:203:TYR:CE1	0.91	2.59	11	4
1:B:259:GLY:O	1:B:260:HIS:CG	0.91	2.23	1	20
1:C:92:THR:HG22	2:D:109:LYS:HG2	0.91	1.37	17	2
1:C:116:PRO:HB2	2:D:109:LYS:CG	0.91	1.96	6	3
2:D:16:MET:HE3	2:D:81:HIS:CE1	0.91	2.01	19	5
1:C:115:ASN:CG	2:D:83:ALA:CA	0.91	2.44	6	1
1:C:203:TYR:CE1	2:D:9:ASN:HB2	0.91	2.01	15	1
1:C:306:HIS:O	1:C:307:ASN:C	0.90	2.07	1	20
1:C:318:ALA:O	1:C:319:HIS:CD2	0.90	2.24	1	20
2:D:10:LYS:NZ	2:D:14:GLY:CA	0.90	2.34	7	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:130:GLY:O	1:A:132:PHE:CD1	0.90	2.25	1	20
1:A:54:ASP:OD2	2:D:38:LYS:CE	0.90	2.19	17	3
1:C:259:GLY:C	1:C:260:HIS:ND1	0.90	2.29	1	20
1:C:204:GLU:HB3	2:D:10:LYS:CE	0.90	1.97	17	3
1:A:30:GLN:OE1	1:A:171:THR:HG23	0.90	1.67	1	20
1:A:235:ALA:O	1:A:322:VAL:HG13	0.90	1.66	1	20
1:A:45:ILE:HD11	1:A:85:LEU:HD21	0.89	1.43	1	20
1:C:145:HIS:HE2	2:D:84:MET:HE1	0.89	1.26	18	4
1:B:45:ILE:HG12	1:B:64:PHE:CE1	0.89	2.02	1	20
1:C:72:LEU:HD12	1:C:153:ALA:O	0.89	1.68	1	20
1:C:204:GLU:CG	2:D:10:LYS:HD3	0.89	1.96	18	1
1:C:92:THR:O	2:D:110:ILE:HG12	0.89	1.65	7	6
1:B:45:ILE:HG12	1:B:64:PHE:CD1	0.89	2.02	1	20
1:C:116:PRO:HB2	2:D:109:LYS:CB	0.89	1.98	6	11
1:B:155:MET:HE3	1:B:157:LEU:CD1	0.89	1.97	1	20
1:C:92:THR:HG22	2:D:109:LYS:CG	0.89	1.97	17	2
1:C:204:GLU:CA	2:D:10:LYS:HG2	0.89	1.97	11	1
2:D:50:PRO:CD	2:D:74:TYR:CE1	0.89	2.56	3	20
1:C:203:TYR:CE1	2:D:15:ALA:HB2	0.89	2.01	20	2
1:B:174:LYS:CG	1:B:241:VAL:HG22	0.88	1.97	1	20
2:D:10:LYS:NZ	2:D:14:GLY:HA2	0.88	1.83	7	4
1:C:90:THR:HA	2:D:109:LYS:HZ1	0.88	1.26	4	2
1:A:155:MET:HE3	1:A:157:LEU:HD11	0.88	1.44	1	20
1:B:193:TYR:CZ	1:B:217:HIS:CE1	0.88	2.61	1	20
1:A:318:ALA:O	1:A:319:HIS:CD2	0.88	2.26	1	20
1:A:120:THR:OG1	1:B:335:LEU:O	0.88	1.92	1	20
1:B:17:VAL:HB	1:B:41:PHE:CE2	0.88	2.03	1	20
1:C:200:GLY:O	2:D:14:GLY:HA2	0.88	1.66	1	4
2:D:44:SER:HB3	2:D:56:PHE:CZ	0.88	2.04	9	20
1:C:130:GLY:O	1:C:132:PHE:CD1	0.88	2.27	1	20
1:C:116:PRO:C	2:D:109:LYS:HB3	0.88	1.93	13	3
1:C:89:GLU:CB	2:D:109:LYS:NZ	0.87	2.37	11	3
1:C:45:ILE:HG12	1:C:64:PHE:CE1	0.87	2.03	1	20
1:C:204:GLU:CA	2:D:10:LYS:HG3	0.87	1.99	3	5
1:C:204:GLU:OE2	2:D:10:LYS:CD	0.87	2.22	18	1
1:A:17:VAL:HB	1:A:41:PHE:CE2	0.87	2.04	1	20
1:A:130:GLY:O	1:A:132:PHE:CE1	0.87	2.27	1	20
1:A:286:GLY:CA	1:B:306:HIS:CE1	0.87	2.57	1	20
1:C:204:GLU:CB	2:D:10:LYS:HG3	0.87	1.98	4	7
1:C:64:PHE:CZ	1:C:150:MET:HE2	0.87	2.05	2	20
1:C:141:MET:CE	2:D:15:ALA:CB	0.87	2.52	7	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:54:ASP:OD2	2:D:38:LYS:HG2	0.87	1.70	17	6
1:C:141:MET:CG	2:D:84:MET:SD	0.87	2.63	17	2
1:B:286:GLY:CA	1:C:306:HIS:CE1	0.86	2.57	1	20
1:A:259:GLY:O	1:A:260:HIS:CG	0.86	2.28	1	20
1:C:141:MET:SD	2:D:16:MET:HE2	0.86	2.10	15	2
1:C:307:ASN:CB	1:C:310:GLU:CD	0.86	2.49	1	20
1:C:204:GLU:HB2	2:D:10:LYS:CG	0.86	2.01	8	2
1:C:94:MET:CE	2:D:84:MET:SD	0.86	2.64	6	2
1:C:115:ASN:CG	2:D:108:PRO:HB3	0.86	1.95	13	1
1:C:203:TYR:HB3	2:D:10:LYS:CD	0.86	2.01	1	3
1:C:304:VAL:HG21	1:C:311:ALA:HB1	0.86	1.48	1	20
1:C:90:THR:HA	2:D:109:LYS:NZ	0.86	1.86	4	2
1:C:203:TYR:CZ	2:D:9:ASN:CB	0.86	2.58	15	1
1:B:251:ASP:OD1	1:B:285:GLY:N	0.86	2.09	1	20
1:C:94:MET:SD	1:C:114:ILE:O	0.85	2.34	7	1
1:C:17:VAL:HB	1:C:41:PHE:CZ	0.85	2.06	1	20
1:C:130:GLY:O	1:C:132:PHE:CE1	0.85	2.29	1	20
2:D:10:LYS:HE3	2:D:11:GLY:N	0.85	1.86	18	2
1:B:146:VAL:HG21	1:C:308:LEU:CD1	0.85	2.01	1	20
1:C:116:PRO:O	2:D:109:LYS:HB2	0.85	1.70	13	1
1:A:304:VAL:HG21	1:A:311:ALA:HB1	0.85	1.46	1	20
1:B:97:ILE:HD11	1:B:99:PHE:CZ	0.85	2.07	1	20
1:C:116:PRO:CB	2:D:109:LYS:CG	0.85	2.54	6	2
1:C:203:TYR:CE2	2:D:15:ALA:HB2	0.85	2.07	12	3
1:A:45:ILE:HG12	1:A:64:PHE:CD1	0.85	2.07	1	20
1:B:77:GLN:O	1:B:78:ASP:OD2	0.85	1.93	1	20
1:B:97:ILE:HG12	1:B:99:PHE:CE2	0.85	2.06	1	20
1:B:174:LYS:HG2	1:B:241:VAL:HG22	0.85	1.45	1	20
1:C:140:GLY:HA3	2:D:81:HIS:HE2	0.85	1.31	7	7
1:C:292:PHE:C	1:C:292:PHE:CD1	0.85	2.53	1	20
1:A:174:LYS:CG	1:A:241:VAL:HG22	0.85	2.01	1	20
1:C:204:GLU:OE2	2:D:11:GLY:O	0.85	1.94	18	1
1:A:306:HIS:CE1	1:C:286:GLY:CA	0.85	2.57	1	20
1:C:251:ASP:OD1	1:C:285:GLY:N	0.85	2.09	1	20
1:C:90:THR:O	2:D:109:LYS:NZ	0.85	2.09	18	1
1:C:204:GLU:CD	2:D:10:LYS:HZ3	0.85	1.70	18	1
1:B:58:GLU:OE1	1:B:195:LYS:CE	0.85	2.24	1	20
1:A:307:ASN:CB	1:A:310:GLU:CD	0.84	2.49	1	20
1:C:279:GLU:C	1:C:281:TRP:CZ3	0.84	2.56	8	20
1:C:115:ASN:HD22	2:D:83:ALA:CA	0.84	1.84	13	2
1:C:141:MET:SD	2:D:16:MET:HG2	0.84	2.12	13	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:D:10:LYS:HE3	2:D:10:LYS:CA	0.84	2.02	20	1
1:A:39:VAL:HG12	1:A:41:PHE:CE1	0.84	2.08	1	20
2:D:10:LYS:CD	2:D:14:GLY:O	0.84	2.25	1	6
1:C:94:MET:HE1	2:D:84:MET:SD	0.84	2.12	6	2
1:C:115:ASN:N	1:C:115:ASN:ND2	0.84	2.20	15	1
1:C:92:THR:HA	2:D:109:LYS:CG	0.84	2.03	17	1
1:C:204:GLU:HB3	2:D:10:LYS:NZ	0.84	1.88	17	2
2:D:10:LYS:HD3	2:D:10:LYS:C	0.84	1.97	6	1
1:C:204:GLU:CB	2:D:10:LYS:NZ	0.84	2.40	18	2
1:C:204:GLU:N	2:D:10:LYS:HE2	0.84	1.84	11	3
1:C:204:GLU:CG	2:D:10:LYS:HG3	0.84	2.02	4	4
1:C:204:GLU:OE1	2:D:10:LYS:NZ	0.84	2.03	18	1
1:A:232:ALA:HB1	1:A:319:HIS:O	0.83	1.71	1	20
1:A:255:HIS:CE1	1:C:100:HIS:ND1	0.83	2.45	19	20
1:C:141:MET:HG2	2:D:16:MET:HE2	0.83	1.47	1	5
1:C:203:TYR:HB3	2:D:10:LYS:CG	0.83	2.03	15	10
1:C:203:TYR:C	2:D:10:LYS:HG2	0.83	1.98	11	2
1:C:204:GLU:HB2	2:D:10:LYS:CE	0.83	2.02	6	7
1:C:204:GLU:HB3	2:D:10:LYS:CG	0.83	2.03	18	1
2:D:10:LYS:NZ	2:D:11:GLY:N	0.83	2.26	20	1
1:B:216:THR:C	1:B:217:HIS:ND1	0.83	2.37	1	20
1:C:200:GLY:O	2:D:10:LYS:HE2	0.83	1.74	1	1
1:C:235:ALA:O	1:C:322:VAL:HG13	0.83	1.74	1	20
2:D:4:GLU:OE2	2:D:6:HIS:NE2	0.83	2.12	11	20
2:D:10:LYS:NZ	2:D:14:GLY:C	0.83	2.37	20	2
1:C:203:TYR:CG	2:D:10:LYS:HB2	0.83	2.08	11	4
1:A:157:LEU:HD23	1:A:162:LEU:HD21	0.83	1.49	1	20
1:A:159:ARG:HG3	1:A:159:ARG:NH1	0.83	1.85	1	20
1:C:136:CYS:SG	1:C:138:PRO:HD3	0.82	2.14	1	20
1:B:77:GLN:O	1:B:78:ASP:CB	0.82	2.26	1	20
1:B:304:VAL:HG21	1:B:311:ALA:HB1	0.82	1.49	1	20
1:C:89:GLU:HB2	2:D:109:LYS:CE	0.82	2.03	1	3
1:C:115:ASN:ND2	2:D:83:ALA:HA	0.82	1.89	13	3
1:C:204:GLU:CG	2:D:10:LYS:HD2	0.82	2.04	6	1
1:C:204:GLU:H	2:D:10:LYS:HE3	0.82	1.33	11	1
1:C:204:GLU:CG	2:D:10:LYS:HE2	0.82	2.04	20	1
1:B:64:PHE:CZ	1:B:150:MET:CE	0.82	2.62	1	20
1:B:94:MET:SD	1:B:94:MET:C	0.82	2.62	1	20
1:C:162:LEU:CD2	1:C:270:PHE:CE1	0.82	2.61	1	20
1:C:115:ASN:ND2	2:D:83:ALA:HB2	0.82	1.88	3	6
1:C:94:MET:CE	1:C:94:MET:C	0.82	2.53	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:94:MET:CB	2:D:83:ALA:O	0.82	2.27	13	1
1:B:39:VAL:HG12	1:B:41:PHE:CE1	0.82	2.10	1	20
1:B:97:ILE:CD1	1:B:99:PHE:CZ	0.82	2.63	1	20
1:B:155:MET:CE	1:B:157:LEU:HD11	0.82	2.00	1	20
1:C:116:PRO:CB	2:D:109:LYS:HB3	0.82	2.05	7	8
1:A:143:PRO:O	1:A:147:VAL:HG22	0.82	1.75	1	20
2:D:10:LYS:CE	2:D:11:GLY:N	0.82	2.43	20	2
1:B:307:ASN:CB	1:B:310:GLU:OE1	0.82	2.27	1	20
1:C:115:ASN:CB	2:D:108:PRO:HB3	0.82	2.04	13	6
1:A:77:GLN:O	1:A:78:ASP:CB	0.81	2.27	1	20
1:A:260:HIS:NE2	1:C:100:HIS:O	0.81	2.12	1	20
1:C:203:TYR:CD1	1:C:203:TYR:C	0.81	2.58	15	8
1:C:203:TYR:CD2	2:D:10:LYS:HG2	0.81	2.10	3	5
1:C:307:ASN:CG	1:C:310:GLU:CD	0.81	2.49	1	20
1:C:30:GLN:OE1	1:C:171:THR:HG23	0.81	1.73	1	20
1:C:91:ASN:O	2:D:109:LYS:CG	0.81	2.29	17	1
1:C:94:MET:SD	1:C:95:HIS:O	0.81	2.39	16	11
1:C:254:PRO:HB2	1:C:281:TRP:NE1	0.81	1.91	1	20
2:D:10:LYS:HD2	2:D:11:GLY:H	0.81	1.35	3	12
1:A:307:ASN:ND2	1:A:310:GLU:CD	0.81	2.38	1	20
1:B:47:GLU:OE2	1:B:95:HIS:NE2	0.81	2.14	1	20
1:C:204:GLU:CD	2:D:10:LYS:HZ2	0.81	1.71	18	1
1:C:77:GLN:O	1:C:78:ASP:CB	0.81	2.25	1	20
1:C:204:GLU:H	2:D:10:LYS:HG3	0.81	1.34	2	6
1:B:233:MET:H	1:B:233:MET:HE3	0.80	1.36	1	20
1:C:133:VAL:HG11	1:C:248:ALA:HB2	0.80	1.53	1	20
1:C:115:ASN:CB	2:D:83:ALA:HB1	0.80	2.06	16	1
1:C:116:PRO:HG2	2:D:109:LYS:H	0.80	1.36	17	1
1:C:138:PRO:HG2	1:C:145:HIS:CE1	0.80	2.12	1	20
1:C:94:MET:HB3	1:C:115:ASN:ND2	0.80	1.88	6	1
1:C:92:THR:O	2:D:110:ILE:HG13	0.80	1.77	13	1
1:C:17:VAL:HB	1:C:41:PHE:CE2	0.80	2.12	1	20
1:C:204:GLU:HB2	2:D:10:LYS:CB	0.80	2.06	8	1
1:C:94:MET:HG3	1:C:115:ASN:ND2	0.80	1.92	17	1
1:B:133:VAL:CG2	1:B:246:SER:HB2	0.80	2.05	1	20
1:C:97:ILE:HG12	1:C:99:PHE:CE1	0.80	2.10	1	20
1:A:198:ALA:HB1	1:A:199:PRO:HD2	0.80	1.52	1	20
1:B:279:GLU:C	1:B:281:TRP:CZ3	0.80	2.60	1	20
1:C:116:PRO:HD2	2:D:110:ILE:HG22	0.80	1.53	6	2
1:C:117:GLY:HA3	2:D:109:LYS:NZ	0.80	1.92	19	1
1:C:141:MET:HE1	2:D:15:ALA:CB	0.80	2.06	7	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:94:MET:HB3	2:D:83:ALA:O	0.80	1.77	13	2
1:C:204:GLU:OE1	2:D:11:GLY:C	0.80	2.25	20	1
1:C:89:GLU:HB2	2:D:109:LYS:CD	0.79	2.07	1	2
1:C:116:PRO:HB2	2:D:109:LYS:HB3	0.79	1.54	13	10
1:C:94:MET:CE	1:C:138:PRO:HB3	0.79	2.07	6	1
1:A:304:VAL:CG1	1:A:317:ALA:HA	0.79	2.07	1	20
1:B:45:ILE:HD11	1:B:85:LEU:HD21	0.79	1.54	1	20
1:C:203:TYR:CE2	2:D:15:ALA:CB	0.79	2.65	12	5
1:C:204:GLU:CB	2:D:10:LYS:CE	0.79	2.59	8	4
1:B:120:THR:OG1	1:C:335:LEU:O	0.79	2.00	1	20
1:B:254:PRO:HB2	1:B:281:TRP:NE1	0.79	1.91	1	20
1:C:307:ASN:ND2	1:C:310:GLU:CD	0.79	2.40	1	20
2:D:10:LYS:HE3	2:D:11:GLY:O	0.79	1.77	16	3
1:B:45:ILE:CG1	1:B:64:PHE:CE1	0.79	2.66	1	20
1:C:204:GLU:CD	2:D:10:LYS:HD3	0.79	2.02	18	1
1:C:204:GLU:CG	2:D:10:LYS:HZ3	0.79	1.90	18	1
1:B:281:TRP:N	1:B:281:TRP:CE3	0.79	2.51	1	20
1:A:254:PRO:HB2	1:A:281:TRP:NE1	0.79	1.91	1	20
1:B:130:GLY:O	1:B:132:PHE:CE1	0.79	2.36	1	20
1:B:162:LEU:CD2	1:B:270:PHE:CE1	0.79	2.66	1	20
1:B:233:MET:CE	1:B:320:PHE:CE1	0.79	2.66	1	20
1:C:45:ILE:HG12	1:C:64:PHE:CD1	0.79	2.12	1	20
1:A:39:VAL:CG1	1:A:41:PHE:CE1	0.79	2.66	1	20
1:A:94:MET:HB2	1:A:115:ASN:ND2	0.79	1.92	1	20
1:A:281:TRP:N	1:A:281:TRP:CE3	0.79	2.50	1	20
2:D:50:PRO:HG2	2:D:74:TYR:OH	0.79	1.78	10	20
1:A:47:GLU:OE2	1:A:95:HIS:NE2	0.78	2.13	1	20
1:A:97:ILE:HG12	1:A:99:PHE:CE1	0.78	2.13	1	20
1:B:39:VAL:CG1	1:B:41:PHE:CE1	0.78	2.66	1	20
1:C:203:TYR:HB3	2:D:10:LYS:CE	0.78	2.08	1	2
1:C:92:THR:CG2	2:D:109:LYS:HG2	0.78	2.07	17	2
1:C:144:TRP:CD2	1:C:203:TYR:CE2	0.78	2.71	20	1
2:D:109:LYS:HE3	2:D:113:GLU:CD	0.78	2.03	10	2
1:A:162:LEU:CD2	1:A:270:PHE:CZ	0.78	2.67	1	20
1:B:307:ASN:HB3	1:B:310:GLU:CD	0.78	2.02	1	20
1:A:279:GLU:C	1:A:281:TRP:CZ3	0.78	2.62	1	20
1:B:281:TRP:N	1:B:281:TRP:CD2	0.78	2.52	1	20
1:A:162:LEU:CD2	1:A:270:PHE:CE1	0.78	2.67	1	20
1:A:307:ASN:CB	1:A:310:GLU:OE1	0.78	2.31	1	20
1:C:200:GLY:O	2:D:10:LYS:NZ	0.78	2.16	11	1
1:A:98:ASP:C	1:A:98:ASP:OD1	0.78	2.27	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:D:110:ILE:HD12	2:D:110:ILE:O	0.78	1.79	2	15
1:C:144:TRP:CD2	1:C:203:TYR:CE1	0.78	2.72	11	4
1:C:200:GLY:O	2:D:10:LYS:CD	0.78	2.31	19	3
1:C:201:ASP:HA	2:D:10:LYS:NZ	0.78	1.94	14	2
1:A:133:VAL:CG2	1:A:246:SER:HB2	0.78	2.08	1	20
1:B:318:ALA:O	1:B:319:HIS:CD2	0.78	2.37	1	20
1:C:204:GLU:CA	2:D:10:LYS:CG	0.78	2.61	11	2
1:C:115:ASN:HB3	2:D:83:ALA:O	0.77	1.80	16	2
1:C:204:GLU:HB3	2:D:10:LYS:HG3	0.77	1.56	18	1
1:A:306:HIS:CG	1:C:286:GLY:HA3	0.77	2.15	1	20
1:C:281:TRP:CE3	1:C:281:TRP:N	0.77	2.52	1	20
1:C:64:PHE:CZ	1:C:150:MET:CE	0.77	2.66	2	20
1:C:115:ASN:OD1	2:D:83:ALA:HB1	0.77	1.78	10	2
2:D:10:LYS:C	2:D:10:LYS:HD2	0.77	1.99	11	2
1:A:134:TYR:CE2	1:A:153:ALA:N	0.77	2.53	1	20
1:C:162:LEU:CD2	1:C:270:PHE:CZ	0.77	2.67	1	20
2:D:109:LYS:CE	2:D:113:GLU:OE2	0.77	2.32	14	2
2:D:10:LYS:HZ2	2:D:11:GLY:H	0.77	1.21	20	1
1:A:45:ILE:HG12	1:A:64:PHE:CE1	0.77	2.14	1	20
1:A:281:TRP:N	1:A:281:TRP:CD2	0.77	2.52	1	20
1:C:203:TYR:CZ	2:D:15:ALA:HB2	0.77	2.14	20	1
1:A:220:PHE:CZ	1:A:316:ALA:HB1	0.77	2.15	1	20
1:B:259:GLY:C	1:B:260:HIS:CG	0.77	2.62	1	20
1:B:286:GLY:HA3	1:C:306:HIS:CG	0.77	2.14	1	20
1:C:94:MET:SD	1:C:114:ILE:N	0.77	2.58	7	2
1:A:77:GLN:C	1:A:78:ASP:CG	0.77	2.48	1	20
1:C:200:GLY:O	2:D:10:LYS:HG3	0.77	1.79	19	1
1:C:133:VAL:CG2	1:C:246:SER:HB2	0.76	2.09	1	20
1:C:281:TRP:N	1:C:281:TRP:CD2	0.76	2.53	1	20
1:B:130:GLY:O	1:B:132:PHE:CD1	0.76	2.37	1	20
1:C:233:MET:CB	1:C:320:PHE:CD2	0.76	2.68	1	20
1:C:89:GLU:CB	2:D:109:LYS:HZ3	0.76	1.91	11	1
1:C:204:GLU:OE1	2:D:11:GLY:O	0.76	2.02	20	1
1:B:162:LEU:HD21	1:B:270:PHE:CZ	0.76	2.15	1	20
2:D:9:ASN:OD1	2:D:9:ASN:N	0.76	2.19	15	3
1:C:91:ASN:O	2:D:109:LYS:HG2	0.76	1.81	17	3
1:C:141:MET:HE2	1:C:203:TYR:CE1	0.76	2.16	5	2
1:C:204:GLU:OE2	2:D:11:GLY:HA2	0.76	1.81	20	1
1:A:308:LEU:CD1	1:C:146:VAL:HG21	0.76	2.11	1	20
1:C:203:TYR:CE2	2:D:9:ASN:O	0.76	2.38	1	4
1:C:204:GLU:HB3	2:D:10:LYS:HZ3	0.76	1.39	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:204:GLU:OE2	2:D:10:LYS:HD3	0.76	1.79	18	1
1:C:134:TYR:CZ	1:C:152:GLY:HA3	0.76	2.16	1	20
2:D:10:LYS:HD2	2:D:14:GLY:O	0.76	1.81	18	11
1:B:259:GLY:C	1:B:260:HIS:ND1	0.76	2.44	1	20
2:D:9:ASN:OD1	2:D:37:ASP:HB2	0.76	1.80	15	3
1:A:307:ASN:CG	1:A:310:GLU:CG	0.76	2.59	1	20
1:C:49:LYS:HE3	1:C:60:HIS:CE1	0.76	2.16	1	20
1:A:240:LYS:HB3	1:A:292:PHE:CZ	0.75	2.15	1	20
1:C:141:MET:CE	1:C:203:TYR:CE2	0.75	2.67	16	4
1:B:235:ALA:O	1:B:322:VAL:HA	0.75	1.80	1	20
1:B:136:CYS:SG	1:B:138:PRO:HD3	0.75	2.21	1	20
1:C:49:LYS:HE3	1:C:60:HIS:NE2	0.75	1.95	1	20
2:D:10:LYS:HD3	2:D:14:GLY:C	0.75	2.07	4	6
1:C:115:ASN:ND2	2:D:83:ALA:C	0.75	2.44	11	1
1:C:141:MET:HE3	2:D:15:ALA:HB1	0.75	1.59	7	3
1:C:115:ASN:OD1	2:D:83:ALA:HA	0.75	1.80	6	1
1:C:94:MET:CE	1:C:95:HIS:N	0.75	2.49	7	1
2:D:16:MET:HE3	2:D:81:HIS:CD2	0.75	2.17	19	2
1:C:89:GLU:O	2:D:109:LYS:HD3	0.75	1.80	1	3
1:C:62:MET:CE	1:C:144:TRP:CZ3	0.75	2.70	20	1
1:B:98:ASP:OD1	1:B:98:ASP:C	0.75	2.30	1	20
1:C:17:VAL:CB	1:C:41:PHE:CZ	0.74	2.70	1	20
1:C:98:ASP:OD1	1:C:98:ASP:C	0.74	2.29	1	20
1:C:144:TRP:CG	1:C:203:TYR:HE1	0.74	2.00	11	4
1:C:92:THR:CA	2:D:109:LYS:CG	0.74	2.65	17	1
1:C:94:MET:HG3	1:C:115:ASN:CG	0.74	2.05	17	1
1:A:136:CYS:SG	1:A:138:PRO:HD3	0.74	2.22	1	20
1:A:240:LYS:CB	1:A:292:PHE:CZ	0.74	2.70	1	20
1:A:249:ASN:O	1:A:249:ASN:ND2	0.74	2.19	1	20
1:C:77:GLN:C	1:C:78:ASP:CG	0.74	2.54	1	20
1:C:99:PHE:CD2	1:C:134:TYR:HB3	0.74	2.17	1	20
1:C:200:GLY:C	2:D:14:GLY:HA2	0.74	2.06	6	4
1:C:94:MET:HB2	1:C:115:ASN:HD22	0.74	1.43	11	2
2:D:16:MET:CE	2:D:81:HIS:CE1	0.74	2.71	19	1
1:A:64:PHE:CZ	1:A:150:MET:CE	0.74	2.70	1	20
1:C:92:THR:O	2:D:110:ILE:HD13	0.74	1.83	6	3
1:C:134:TYR:CE2	1:C:153:ALA:N	0.74	2.55	1	20
1:C:278:GLN:O	1:C:281:TRP:CZ3	0.74	2.40	8	20
1:C:141:MET:HE3	2:D:16:MET:CG	0.74	2.11	6	1
1:C:247:GLN:NE2	1:C:250:ARG:HB3	0.74	1.98	1	20
2:D:10:LYS:HZ3	2:D:14:GLY:HA2	0.74	1.40	7	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:94:MET:SD	1:C:114:ILE:C	0.74	2.71	7	1
1:C:200:GLY:C	2:D:10:LYS:HD3	0.74	2.07	16	2
2:D:15:ALA:C	2:D:16:MET:HG2	0.74	2.08	16	1
1:C:204:GLU:CB	2:D:10:LYS:CD	0.74	2.66	18	3
1:C:62:MET:HE1	1:C:144:TRP:CE3	0.74	2.18	20	1
1:A:94:MET:C	1:A:94:MET:SD	0.73	2.71	1	20
1:B:77:GLN:C	1:B:78:ASP:CG	0.73	2.50	1	20
1:B:240:LYS:HB3	1:B:292:PHE:CZ	0.73	2.17	1	20
1:B:304:VAL:CG1	1:B:317:ALA:HA	0.73	2.12	1	20
1:B:58:GLU:CD	1:B:195:LYS:HE3	0.73	2.08	1	20
1:C:89:GLU:CB	2:D:109:LYS:CD	0.73	2.66	1	2
1:C:216:THR:C	1:C:217:HIS:ND1	0.73	2.46	1	20
1:A:259:GLY:C	1:A:260:HIS:CG	0.73	2.67	1	20
1:C:155:MET:HE3	1:C:157:LEU:HD11	0.73	1.58	1	20
1:C:204:GLU:CB	2:D:10:LYS:HD3	0.73	2.13	18	1
1:C:62:MET:SD	1:C:148:SER:HB2	0.73	2.23	20	1
1:C:116:PRO:HG2	2:D:110:ILE:CB	0.73	2.14	6	3
1:A:100:HIS:O	1:B:260:HIS:NE2	0.73	2.21	1	20
1:A:307:ASN:CG	1:A:310:GLU:HG3	0.73	2.08	1	20
1:C:143:PRO:O	1:C:147:VAL:HG22	0.73	1.83	1	20
1:C:90:THR:CA	2:D:109:LYS:HZ3	0.73	1.96	7	2
1:C:94:MET:CG	2:D:83:ALA:HB3	0.73	2.13	8	1
1:B:58:GLU:OE1	1:B:195:LYS:HE2	0.73	1.83	1	20
1:C:203:TYR:CD2	2:D:10:LYS:CG	0.73	2.72	1	2
1:A:97:ILE:CD1	1:A:99:PHE:CZ	0.73	2.72	1	20
1:B:240:LYS:CB	1:B:292:PHE:CZ	0.73	2.72	1	20
1:C:49:LYS:CE	1:C:60:HIS:NE2	0.73	2.52	1	20
1:A:251:ASP:O	1:A:253:ARG:NH2	0.72	2.22	1	20
1:C:89:GLU:HB2	2:D:109:LYS:NZ	0.72	1.99	1	7
1:C:94:MET:HG3	2:D:83:ALA:CB	0.72	2.13	8	5
1:C:200:GLY:HA3	2:D:14:GLY:HA3	0.72	1.60	11	2
2:D:55:LYS:HG3	2:D:56:PHE:N	0.72	2.00	10	20
1:A:307:ASN:HB3	1:A:310:GLU:OE1	0.72	1.82	1	20
1:A:54:ASP:OD2	2:D:38:LYS:HD3	0.72	1.84	18	5
2:D:109:LYS:HE2	2:D:113:GLU:OE2	0.72	1.83	14	2
1:C:89:GLU:HB3	2:D:109:LYS:NZ	0.72	1.99	13	3
2:D:10:LYS:HD2	2:D:11:GLY:CA	0.72	2.15	11	1
1:B:45:ILE:CG1	1:B:64:PHE:CD1	0.72	2.72	1	20
1:B:162:LEU:CD2	1:B:270:PHE:CZ	0.72	2.72	1	20
1:C:204:GLU:H	2:D:10:LYS:CG	0.72	1.96	15	2
1:C:141:MET:HE3	1:C:203:TYR:CE2	0.72	2.20	18	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:116:PRO:HD2	2:D:110:ILE:CG2	0.72	2.14	6	2
1:A:286:GLY:HA3	1:B:306:HIS:CG	0.72	2.19	1	20
1:A:134:TYR:CZ	1:A:152:GLY:HA3	0.71	2.20	1	20
1:A:216:THR:C	1:A:217:HIS:ND1	0.71	2.48	1	20
1:B:69:PRO:O	1:B:70:GLY:O	0.71	2.08	1	20
1:C:203:TYR:OH	2:D:9:ASN:HB3	0.71	1.83	15	1
1:C:240:LYS:HB2	1:C:292:PHE:CZ	0.71	2.21	1	20
2:D:16:MET:HE3	2:D:81:HIS:NE2	0.71	2.00	19	6
1:B:134:TYR:CZ	1:B:152:GLY:HA3	0.71	2.20	1	20
1:C:94:MET:HG2	1:C:114:ILE:C	0.71	2.10	17	4
1:C:141:MET:HE3	2:D:16:MET:CE	0.71	2.14	11	2
1:A:99:PHE:CD2	1:A:134:TYR:HB3	0.71	2.20	1	20
1:A:233:MET:CE	1:A:320:PHE:CZ	0.71	2.72	1	20
1:C:89:GLU:CB	2:D:109:LYS:HZ2	0.71	1.99	1	2
1:C:89:GLU:O	2:D:109:LYS:HE2	0.71	1.85	6	2
1:A:247:GLN:NE2	1:A:250:ARG:HB3	0.71	2.00	1	20
1:C:162:LEU:HD21	1:C:270:PHE:CZ	0.71	2.19	1	20
1:C:62:MET:SD	1:C:148:SER:CB	0.71	2.78	20	1
1:C:89:GLU:CD	2:D:109:LYS:HZ1	0.71	1.94	16	1
1:C:204:GLU:CD	2:D:10:LYS:CE	0.71	2.64	18	1
1:B:304:VAL:HG11	1:B:317:ALA:CB	0.71	2.16	1	20
1:B:307:ASN:HB3	1:B:310:GLU:CG	0.71	2.15	1	20
1:C:69:PRO:CG	1:C:179:GLY:HA3	0.71	2.16	1	20
2:D:16:MET:HE2	2:D:84:MET:CE	0.71	2.15	16	1
1:A:303:TYR:C	1:A:304:VAL:CG1	0.71	2.64	1	20
1:C:254:PRO:HB2	1:C:281:TRP:CD1	0.71	2.21	8	20
1:A:228:THR:CG2	1:A:319:HIS:CE1	0.70	2.75	1	20
1:B:133:VAL:HG11	1:B:248:ALA:HB2	0.70	1.63	1	20
1:C:220:PHE:CZ	1:C:316:ALA:HB1	0.70	2.21	1	20
2:D:10:LYS:HZ3	2:D:14:GLY:CA	0.70	2.00	20	3
1:B:142:VAL:HB	1:B:143:PRO:CD	0.70	2.16	1	20
1:C:90:THR:CA	2:D:109:LYS:NZ	0.70	2.53	4	2
1:C:141:MET:HG3	2:D:16:MET:HE2	0.70	1.62	15	2
1:B:17:VAL:CB	1:B:41:PHE:CE2	0.70	2.75	1	20
2:D:16:MET:HE3	2:D:84:MET:SD	0.70	2.27	16	1
1:C:204:GLU:HG3	2:D:10:LYS:CE	0.70	2.16	20	1
1:B:70:GLY:HA3	1:B:134:TYR:OH	0.70	1.87	1	20
1:B:278:GLN:O	1:B:281:TRP:CZ3	0.70	2.45	1	20
1:C:204:GLU:CG	2:D:10:LYS:HB3	0.70	2.17	1	5
1:C:204:GLU:CA	2:D:10:LYS:HE2	0.70	2.16	20	1
1:B:134:TYR:CE2	1:B:153:ALA:N	0.70	2.59	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:204:GLU:HB2	2:D:10:LYS:HE2	0.70	1.63	20	6
2:D:10:LYS:C	2:D:10:LYS:HD3	0.70	2.11	13	2
1:C:45:ILE:CG1	1:C:64:PHE:CE1	0.70	2.74	1	20
1:A:255:HIS:HE1	1:C:100:HIS:ND1	0.69	1.85	19	20
1:A:255:HIS:ND1	1:C:100:HIS:CE1	0.69	2.60	19	20
1:A:304:VAL:HG11	1:A:317:ALA:CB	0.69	2.17	1	20
2:D:9:ASN:OD1	2:D:37:ASP:OD2	0.69	2.11	15	1
1:A:69:PRO:O	1:A:70:GLY:O	0.69	2.10	1	20
1:B:94:MET:SD	1:B:95:HIS:O	0.69	2.50	1	20
1:B:216:THR:C	1:B:217:HIS:HD1	0.69	1.94	1	20
2:D:118:VAL:O	2:D:122:ALA:HB3	0.69	1.88	15	20
1:C:204:GLU:OE2	2:D:10:LYS:HB3	0.69	1.87	9	2
1:C:115:ASN:HD22	2:D:83:ALA:HB1	0.69	1.44	14	2
1:C:69:PRO:O	1:C:70:GLY:O	0.69	2.10	1	20
1:A:97:ILE:HD11	1:A:99:PHE:CZ	0.69	2.23	1	20
1:C:204:GLU:OE2	2:D:10:LYS:O	0.69	2.10	13	3
1:C:204:GLU:HG3	2:D:10:LYS:CG	0.69	2.17	3	3
1:C:204:GLU:OE2	2:D:10:LYS:CE	0.69	2.40	18	1
1:A:158:PRO:HD3	1:A:270:PHE:CD2	0.69	2.23	1	20
1:B:193:TYR:CZ	1:B:217:HIS:HE1	0.69	2.05	1	20
1:C:204:GLU:HB2	2:D:10:LYS:CD	0.69	2.18	8	3
1:B:58:GLU:OE1	1:B:195:LYS:HE3	0.69	1.86	1	20
1:C:89:GLU:C	2:D:109:LYS:HZ2	0.69	1.94	1	2
1:C:235:ALA:O	1:C:322:VAL:HA	0.69	1.87	1	20
1:C:303:TYR:C	1:C:304:VAL:CG1	0.69	2.64	1	20
1:C:94:MET:SD	2:D:84:MET:SD	0.69	2.91	6	1
1:C:116:PRO:HG2	2:D:110:ILE:HB	0.69	1.62	6	5
1:C:145:HIS:NE2	2:D:84:MET:HE1	0.69	2.03	18	2
1:C:144:TRP:CE3	1:C:203:TYR:CE2	0.69	2.81	20	1
1:A:235:ALA:O	1:A:322:VAL:HA	0.69	1.87	1	20
1:A:278:GLN:O	1:A:281:TRP:CZ3	0.69	2.46	1	20
1:B:159:ARG:HH11	1:B:159:ARG:CG	0.69	2.01	1	20
1:B:303:TYR:C	1:B:304:VAL:CG1	0.69	2.66	1	20
1:B:307:ASN:CG	1:B:310:GLU:OE2	0.69	2.35	1	20
1:C:203:TYR:CE1	2:D:9:ASN:CB	0.69	2.74	15	2
1:B:307:ASN:HB2	1:B:310:GLU:OE1	0.69	1.88	1	20
1:C:89:GLU:HB2	2:D:109:LYS:HZ2	0.69	1.46	1	3
1:C:203:TYR:CE1	1:C:207:VAL:HG21	0.69	2.23	6	4
1:C:204:GLU:OE2	2:D:10:LYS:HD2	0.69	1.88	13	1
1:A:304:VAL:HG21	1:A:311:ALA:CB	0.68	2.18	1	20
1:B:259:GLY:O	1:B:260:HIS:CD2	0.68	2.46	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:72:LEU:HD12	1:A:153:ALA:O	0.68	1.88	1	20
1:C:141:MET:HE3	2:D:16:MET:HE2	0.68	1.66	5	2
1:C:62:MET:HE1	1:C:144:TRP:CZ3	0.68	2.24	20	1
1:A:308:LEU:HD13	1:C:142:VAL:HG12	0.68	1.64	1	20
1:C:94:MET:HB3	2:D:83:ALA:C	0.68	2.14	13	3
1:C:115:ASN:HD22	2:D:83:ALA:HB2	0.68	1.48	14	2
1:C:204:GLU:CD	2:D:10:LYS:CD	0.68	2.66	18	1
2:D:16:MET:CE	2:D:81:HIS:NE2	0.68	2.57	19	1
1:B:45:ILE:HD11	1:B:64:PHE:HE1	0.68	1.47	1	20
2:D:59:LYS:HG3	2:D:62:GLU:OE2	0.68	1.89	6	20
1:C:307:ASN:CB	1:C:310:GLU:OE1	0.68	2.42	1	20
2:D:10:LYS:C	2:D:10:LYS:CD	0.68	2.66	6	1
2:D:9:ASN:OD1	2:D:37:ASP:CG	0.68	2.36	15	1
2:D:10:LYS:NZ	2:D:14:GLY:N	0.68	2.42	1	4
2:D:50:PRO:CD	2:D:74:TYR:CE2	0.68	2.73	17	20
1:C:116:PRO:CB	2:D:109:LYS:HG2	0.68	2.19	10	2
1:C:146:VAL:HG11	1:C:248:ALA:O	0.68	1.87	1	20
1:A:77:GLN:O	1:A:78:ASP:OD2	0.68	2.12	1	20
1:A:240:LYS:HB3	1:A:292:PHE:CE1	0.68	2.24	1	20
1:A:307:ASN:OD1	1:A:310:GLU:HG3	0.68	1.88	1	20
1:C:53:ASP:OD2	1:C:57:THR:OG1	0.68	2.08	1	20
1:C:94:MET:HG2	1:C:115:ASN:CA	0.68	2.19	7	2
1:C:158:PRO:HD3	1:C:270:PHE:CD2	0.67	2.24	1	20
1:C:307:ASN:HB3	1:C:310:GLU:CG	0.67	2.19	1	20
1:B:158:PRO:HD3	1:B:270:PHE:CD2	0.67	2.25	1	20
1:A:259:GLY:O	1:A:260:HIS:CE1	0.67	2.46	1	20
1:C:144:TRP:CD2	1:C:203:TYR:CD1	0.67	2.82	4	5
1:C:94:MET:CE	2:D:84:MET:CG	0.67	2.72	11	2
1:C:201:ASP:HA	2:D:10:LYS:CE	0.67	2.18	16	1
1:B:97:ILE:CG1	1:B:99:PHE:CE2	0.67	2.77	1	20
1:C:115:ASN:HB2	2:D:108:PRO:HB3	0.67	1.66	10	5
1:C:193:TYR:OH	1:C:217:HIS:CE1	0.67	2.47	1	20
1:C:142:VAL:HB	1:C:143:PRO:CD	0.67	2.18	1	20
2:D:10:LYS:HD2	2:D:10:LYS:C	0.67	2.06	3	8
1:C:115:ASN:HD22	2:D:108:PRO:CG	0.67	2.00	10	1
1:C:203:TYR:CD1	2:D:9:ASN:HB3	0.67	2.24	16	1
1:A:77:GLN:HG2	1:A:78:ASP:OD1	0.67	1.89	1	20
1:A:193:TYR:OH	1:A:217:HIS:CE1	0.67	2.48	1	20
1:B:240:LYS:HB3	1:B:292:PHE:CE1	0.67	2.25	1	20
2:D:10:LYS:HD3	2:D:14:GLY:O	0.67	1.90	12	5
1:A:142:VAL:HB	1:A:143:PRO:CD	0.67	2.20	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:36:PRO:HA	1:B:79:ASP:OD1	0.67	1.89	1	20
2:D:10:LYS:HZ3	2:D:14:GLY:N	0.67	1.88	1	1
1:C:92:THR:CG2	2:D:109:LYS:CG	0.67	2.70	17	1
1:C:141:MET:CB	2:D:84:MET:SD	0.67	2.83	17	1
1:C:204:GLU:CG	2:D:10:LYS:CE	0.66	2.72	20	1
2:D:10:LYS:HZ1	2:D:11:GLY:C	0.66	1.95	20	1
1:C:304:VAL:HG21	1:C:311:ALA:CB	0.66	2.19	3	20
1:C:304:VAL:CG1	1:C:317:ALA:HA	0.66	2.19	1	20
1:C:92:THR:C	2:D:110:ILE:HG12	0.66	2.15	13	1
1:C:92:THR:CA	2:D:109:LYS:HG2	0.66	2.21	17	1
1:A:132:PHE:CE2	1:A:269:LYS:HE3	0.66	2.24	1	20
1:B:69:PRO:CG	1:B:179:GLY:HA3	0.66	2.20	1	20
1:B:254:PRO:HB2	1:B:281:TRP:CD1	0.66	2.25	1	20
1:A:159:ARG:HH11	1:A:159:ARG:HG2	0.66	1.48	1	20
1:B:9:ILE:O	1:B:14:ARG:NH2	0.66	2.29	1	20
1:C:233:MET:HB2	1:C:320:PHE:CD2	0.66	2.25	1	20
1:C:307:ASN:CG	1:C:310:GLU:HG3	0.66	2.14	1	20
1:C:200:GLY:O	2:D:10:LYS:HB2	0.66	1.90	16	1
1:A:162:LEU:HD21	1:A:270:PHE:CZ	0.66	2.26	1	20
1:B:100:HIS:ND1	1:C:255:HIS:CE1	0.66	2.63	1	20
1:C:203:TYR:CB	2:D:10:LYS:HG2	0.66	2.21	1	3
1:C:259:GLY:O	1:C:260:HIS:CG	0.66	2.49	1	20
1:C:259:GLY:O	1:C:260:HIS:ND1	0.66	2.28	1	20
1:C:144:TRP:CE2	1:C:203:TYR:HD1	0.66	2.08	7	3
1:C:144:TRP:CE3	1:C:203:TYR:HE2	0.66	2.08	20	1
1:C:141:MET:SD	2:D:84:MET:HE2	0.66	2.30	1	2
1:C:116:PRO:C	2:D:109:LYS:CB	0.66	2.62	13	1
1:A:70:GLY:HA3	1:A:134:TYR:OH	0.66	1.91	1	20
1:C:40:GLU:C	1:C:41:PHE:CD1	0.66	2.74	1	20
1:C:77:GLN:O	1:C:78:ASP:OD2	0.66	2.12	1	20
1:C:303:TYR:O	1:C:304:VAL:HG12	0.66	1.91	1	20
2:D:44:SER:HB3	2:D:56:PHE:CE2	0.66	2.26	18	20
1:C:193:TYR:CZ	1:C:217:HIS:CE1	0.66	2.84	1	20
1:C:200:GLY:O	2:D:10:LYS:HD3	0.66	1.91	19	2
1:B:157:LEU:HD23	1:B:162:LEU:HD21	0.66	1.67	1	20
1:C:280:THR:C	1:C:281:TRP:CE3	0.66	2.74	1	20
1:A:220:PHE:CE2	1:A:316:ALA:C	0.65	2.74	1	20
1:B:97:ILE:CD1	1:B:99:PHE:CE2	0.65	2.79	1	20
1:A:138:PRO:HG2	1:A:145:HIS:CE1	0.65	2.27	1	20
1:A:303:TYR:O	1:A:304:VAL:HG12	0.65	1.90	1	20
1:C:171:THR:O	1:C:240:LYS:HD2	0.65	1.91	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:203:TYR:CD2	2:D:15:ALA:HA	0.65	2.25	11	2
1:B:233:MET:CE	1:B:233:MET:N	0.65	2.57	1	20
1:B:304:VAL:CG2	1:B:311:ALA:HB1	0.65	2.20	1	20
1:C:70:GLY:HA3	1:C:134:TYR:OH	0.65	1.91	1	20
1:C:204:GLU:CG	2:D:10:LYS:CG	0.65	2.74	7	3
1:C:203:TYR:CD1	2:D:10:LYS:CB	0.65	2.77	6	2
1:C:201:ASP:HA	2:D:10:LYS:CD	0.65	2.20	16	1
1:C:17:VAL:CB	1:C:41:PHE:CE2	0.65	2.80	1	20
1:C:203:TYR:CD2	2:D:10:LYS:CB	0.65	2.79	1	2
1:C:279:GLU:C	1:C:281:TRP:HZ3	0.65	2.00	8	20
1:C:132:PHE:CE2	1:C:269:LYS:HE3	0.65	2.27	1	20
2:D:18:PHE:CE2	2:D:86:MET:HG2	0.65	2.27	15	20
1:C:141:MET:HE1	2:D:15:ALA:HB3	0.65	1.69	7	1
1:C:203:TYR:HD2	2:D:10:LYS:CG	0.65	2.04	1	1
1:C:94:MET:SD	2:D:83:ALA:HB3	0.65	2.32	8	2
1:C:116:PRO:CB	2:D:109:LYS:HG3	0.65	2.22	6	1
1:A:304:VAL:CG2	1:A:311:ALA:CB	0.65	2.75	1	20
1:B:39:VAL:CG1	1:B:41:PHE:HE1	0.65	2.04	1	20
1:B:247:GLN:NE2	1:B:250:ARG:HB3	0.65	2.06	1	20
1:B:304:VAL:HG12	1:B:317:ALA:HA	0.65	1.69	1	20
1:A:146:VAL:HG21	1:B:308:LEU:CD1	0.64	2.22	1	20
1:B:99:PHE:CD1	1:B:134:TYR:HB3	0.64	2.27	1	20
1:A:26:HIS:CE1	1:A:74:VAL:HB	0.64	2.27	1	20
1:C:49:LYS:NZ	1:C:196:TYR:O	0.64	2.25	1	20
1:C:89:GLU:CB	2:D:109:LYS:HD2	0.64	2.21	1	2
1:B:159:ARG:CG	1:B:159:ARG:NH1	0.64	2.59	1	20
1:C:157:LEU:HD23	1:C:162:LEU:HD21	0.64	1.69	1	20
1:C:304:VAL:CG2	1:C:311:ALA:CB	0.64	2.75	1	20
2:D:7:MET:CG	2:D:18:PHE:CE1	0.64	2.81	8	20
1:C:94:MET:CE	2:D:84:MET:HG2	0.64	2.23	11	1
1:A:233:MET:CB	1:A:320:PHE:CD2	0.64	2.80	1	20
1:A:249:ASN:O	1:A:249:ASN:CG	0.64	2.39	1	20
1:C:115:ASN:CG	2:D:83:ALA:HA	0.64	2.16	6	1
1:A:53:ASP:OD1	1:A:53:ASP:O	0.64	2.15	1	20
1:C:159:ARG:CG	1:C:159:ARG:HH11	0.64	2.05	1	20
1:C:116:PRO:HB2	2:D:109:LYS:HG3	0.64	1.69	6	1
1:C:92:THR:O	2:D:110:ILE:CD1	0.64	2.46	11	4
1:C:141:MET:CE	1:C:203:TYR:CZ	0.64	2.80	4	1
2:D:10:LYS:CA	2:D:10:LYS:CE	0.64	2.73	20	1
1:A:335:LEU:O	1:C:120:THR:OG1	0.64	2.08	20	20
1:C:36:PRO:HA	1:C:79:ASP:OD1	0.64	1.93	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:268:GLY:O	1:C:269:LYS:HD3	0.64	1.92	1	20
1:A:45:ILE:CG1	1:A:64:PHE:CE1	0.64	2.81	1	20
1:A:255:HIS:CE1	1:C:100:HIS:HE1	0.64	2.01	19	20
1:B:253:ARG:NH1	1:B:307:ASN:HD22	0.64	1.91	1	20
1:B:303:TYR:O	1:B:304:VAL:HG12	0.64	1.93	1	20
1:B:132:PHE:CE2	1:B:269:LYS:HE3	0.64	2.28	1	20
1:C:115:ASN:HB3	2:D:83:ALA:HB1	0.64	1.70	16	1
1:C:203:TYR:CZ	2:D:15:ALA:CB	0.64	2.81	20	2
2:D:16:MET:HE3	2:D:81:HIS:CG	0.64	2.28	19	1
1:A:304:VAL:CG2	1:A:311:ALA:HB1	0.64	2.20	1	20
1:C:307:ASN:CG	1:C:310:GLU:CG	0.64	2.71	1	20
1:C:89:GLU:CA	2:D:109:LYS:HD3	0.63	2.22	1	2
1:C:201:ASP:HA	2:D:10:LYS:HZ3	0.63	1.52	19	2
1:C:304:VAL:CG2	1:C:311:ALA:HB1	0.63	2.21	1	20
1:C:92:THR:C	2:D:110:ILE:CG1	0.63	2.71	13	1
1:C:240:LYS:CB	1:C:292:PHE:CZ	0.63	2.81	1	20
1:C:203:TYR:C	1:C:203:TYR:HD1	0.63	2.01	6	4
1:C:204:GLU:OE1	2:D:10:LYS:O	0.63	2.16	15	1
1:B:268:GLY:O	1:B:269:LYS:HD3	0.63	1.93	1	20
1:C:89:GLU:O	2:D:109:LYS:CD	0.63	2.47	1	4
2:D:10:LYS:HZ2	2:D:14:GLY:C	0.63	2.01	7	3
1:C:204:GLU:CG	1:C:205:ASP:N	0.63	2.61	17	1
1:B:26:HIS:CE1	1:B:74:VAL:HB	0.63	2.28	1	20
1:C:173:ASP:OD2	1:C:240:LYS:HG2	0.63	1.92	1	20
1:C:203:TYR:HB3	2:D:10:LYS:HG2	0.63	1.69	6	6
1:C:233:MET:HB3	1:C:320:PHE:CD2	0.63	2.28	1	20
2:D:10:LYS:HZ3	2:D:14:GLY:H	0.63	1.35	1	1
1:A:130:GLY:C	1:A:132:PHE:CE1	0.63	2.77	1	20
1:B:142:VAL:HG12	1:C:308:LEU:HD13	0.63	1.71	1	20
1:C:54:ASP:OD1	1:C:55:ALA:N	0.63	2.31	1	20
1:C:141:MET:HE1	2:D:9:ASN:C	0.63	2.18	11	1
1:B:187:ARG:NH1	1:B:216:THR:HG22	0.63	2.07	1	20
1:C:17:VAL:CG1	1:C:41:PHE:CE2	0.63	2.82	1	20
1:A:69:PRO:CG	1:A:179:GLY:HA3	0.63	2.22	1	20
1:B:17:VAL:CG1	1:B:41:PHE:CE2	0.63	2.82	1	20
2:D:10:LYS:HZ2	2:D:14:GLY:N	0.63	1.91	7	3
1:C:141:MET:SD	2:D:16:MET:CG	0.63	2.87	15	2
1:A:36:PRO:HA	1:A:79:ASP:OD1	0.62	1.93	1	20
1:B:142:VAL:CB	1:B:143:PRO:CD	0.62	2.77	1	20
1:B:279:GLU:C	1:B:281:TRP:HZ3	0.62	2.02	1	20
1:C:204:GLU:CB	2:D:10:LYS:HD2	0.62	2.23	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:203:TYR:HB3	2:D:10:LYS:CB	0.62	2.22	15	1
1:C:117:GLY:CA	2:D:109:LYS:HZ3	0.62	2.08	19	1
1:B:248:ALA:O	1:B:249:ASN:HB2	0.62	1.94	1	20
1:C:92:THR:CB	2:D:109:LYS:CG	0.62	2.77	17	1
1:A:174:LYS:HG3	1:A:241:VAL:HG13	0.62	1.70	1	20
1:B:304:VAL:HG11	1:B:317:ALA:HB1	0.62	1.71	1	20
1:C:135:HIS:O	1:C:135:HIS:ND1	0.62	2.31	5	2
1:C:94:MET:HE3	2:D:84:MET:CG	0.62	2.25	11	1
1:A:54:ASP:CG	2:D:38:LYS:HZ2	0.62	2.02	17	1
1:B:193:TYR:OH	1:B:217:HIS:NE2	0.62	2.30	1	20
1:C:77:GLN:O	1:C:159:ARG:NH1	0.62	2.33	1	20
1:C:130:GLY:C	1:C:132:PHE:CE1	0.62	2.78	1	20
1:B:304:VAL:CG2	1:B:311:ALA:CB	0.62	2.78	1	20
1:C:43:MET:O	1:C:85:LEU:HD12	0.62	1.95	1	20
1:C:69:PRO:HG3	1:C:179:GLY:HA3	0.62	1.72	1	20
1:C:90:THR:N	2:D:109:LYS:HZ3	0.62	1.93	7	2
1:B:304:VAL:HG21	1:B:311:ALA:CB	0.62	2.24	1	20
1:C:141:MET:CE	2:D:84:MET:SD	0.62	2.87	17	1
1:A:17:VAL:CB	1:A:41:PHE:CE2	0.61	2.82	1	20
1:A:97:ILE:CD1	1:A:99:PHE:CE1	0.61	2.83	1	20
1:A:235:ALA:O	1:A:322:VAL:CG1	0.61	2.47	1	20
1:B:17:VAL:CG1	1:B:41:PHE:HE2	0.61	2.08	1	20
1:B:251:ASP:O	1:B:253:ARG:NH2	0.61	2.33	1	20
1:C:233:MET:CB	1:C:320:PHE:CE2	0.61	2.82	1	20
1:C:253:ARG:HH12	1:C:307:ASN:HD22	0.61	1.38	1	20
2:D:9:ASN:HA	2:D:16:MET:SD	0.61	2.35	2	12
1:C:116:PRO:HB2	2:D:109:LYS:H	0.61	1.55	7	1
1:A:97:ILE:CG1	1:A:99:PHE:CE1	0.61	2.82	1	20
1:C:135:HIS:ND1	1:C:135:HIS:O	0.61	2.31	8	18
2:D:109:LYS:CE	2:D:113:GLU:CD	0.61	2.73	10	1
1:A:254:PRO:HB2	1:A:281:TRP:CD1	0.61	2.29	1	20
1:A:39:VAL:CG1	1:A:41:PHE:HE1	0.61	2.05	1	20
1:A:80:TYR:CE2	1:A:125:LYS:HB2	0.61	2.30	1	20
1:A:99:PHE:CD2	1:A:134:TYR:CB	0.61	2.83	1	20
1:A:172:TYR:HB3	1:A:292:PHE:CE2	0.61	2.31	1	20
1:B:280:THR:C	1:B:281:TRP:CE3	0.61	2.78	1	20
1:C:94:MET:CE	2:D:84:MET:HG3	0.61	2.25	6	1
1:C:115:ASN:OD1	2:D:83:ALA:HB2	0.61	1.93	6	1
1:C:200:GLY:HA2	2:D:14:GLY:HA2	0.61	1.68	11	1
1:C:203:TYR:CB	2:D:10:LYS:HE2	0.61	2.26	11	1
1:A:45:ILE:HD11	1:A:64:PHE:HE1	0.61	1.56	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:280:THR:C	1:A:281:TRP:CE3	0.61	2.78	1	20
1:A:284:PRO:O	1:A:285:GLY:C	0.61	2.44	1	20
1:C:203:TYR:HD2	2:D:10:LYS:CB	0.61	2.08	1	1
1:C:141:MET:CE	1:C:203:TYR:CE1	0.61	2.83	5	2
2:D:16:MET:HE2	2:D:84:MET:HE1	0.61	1.70	16	1
1:A:131:VAL:HG23	1:A:288:ALA:O	0.61	1.95	1	20
1:B:96:ASN:C	1:B:96:ASN:OD1	0.61	2.43	1	20
1:B:130:GLY:C	1:B:132:PHE:CE1	0.61	2.78	1	20
2:D:115:LEU:O	2:D:118:VAL:HG22	0.61	1.96	3	20
1:C:89:GLU:HB3	2:D:109:LYS:HZ3	0.61	1.52	11	1
1:A:94:MET:HB2	1:A:115:ASN:HD22	0.61	1.52	1	20
1:C:251:ASP:O	1:C:253:ARG:NH2	0.61	2.34	1	20
1:C:259:GLY:C	1:C:260:HIS:CG	0.61	2.79	1	20
1:C:203:TYR:CE1	2:D:9:ASN:HB3	0.61	2.29	19	3
2:D:117:LYS:HG3	2:D:121:SER:OG	0.61	1.96	5	20
1:C:141:MET:CE	1:C:203:TYR:CD2	0.61	2.84	18	2
1:B:45:ILE:CD1	1:B:64:PHE:CE1	0.60	2.83	1	20
1:B:233:MET:H	1:B:233:MET:HE2	0.60	1.53	1	20
1:C:284:PRO:O	1:C:285:GLY:C	0.60	2.43	1	20
1:C:116:PRO:CD	2:D:110:ILE:HG22	0.60	2.26	6	2
1:B:78:ASP:OD2	1:B:159:ARG:HD2	0.60	1.94	1	20
1:B:159:ARG:NH1	1:B:159:ARG:HG2	0.60	2.11	1	20
1:C:240:LYS:HB2	1:C:292:PHE:CE2	0.60	2.29	1	20
1:C:92:THR:HG22	2:D:109:LYS:HE2	0.60	1.74	18	2
1:A:102:ALA:O	1:B:260:HIS:CE1	0.60	2.55	1	20
1:C:131:VAL:HG23	1:C:288:ALA:O	0.60	1.95	1	20
1:C:134:TYR:CZ	1:C:152:GLY:CA	0.60	2.83	1	20
1:C:92:THR:HA	2:D:109:LYS:CB	0.60	2.25	17	1
1:B:96:ASN:OD1	1:B:96:ASN:O	0.60	2.20	1	20
1:C:116:PRO:HB2	2:D:109:LYS:HB2	0.60	1.71	8	3
1:B:181:GLN:HG2	1:B:183:PHE:CZ	0.60	2.31	1	20
1:C:139:PRO:O	2:D:81:HIS:NE2	0.60	2.35	1	4
2:D:10:LYS:CD	2:D:14:GLY:C	0.60	2.74	1	4
1:C:203:TYR:CE2	2:D:15:ALA:HB1	0.60	2.32	18	2
1:C:204:GLU:HB2	2:D:10:LYS:HE3	0.60	1.73	4	6
1:A:14:ARG:HG3	1:A:38:VAL:CG1	0.60	2.27	1	20
1:A:100:HIS:CE1	1:B:255:HIS:CE1	0.60	2.89	1	20
1:C:307:ASN:HB3	1:C:310:GLU:CD	0.60	2.21	1	20
1:C:116:PRO:HD2	2:D:110:ILE:HB	0.60	1.71	13	1
1:C:203:TYR:CA	2:D:10:LYS:HE2	0.60	2.26	11	1
1:C:91:ASN:C	2:D:109:LYS:HG2	0.60	2.21	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:94:MET:HB2	1:B:115:ASN:ND2	0.60	2.12	1	20
1:C:203:TYR:HB3	2:D:10:LYS:HE2	0.60	1.72	11	2
1:C:220:PHE:CE2	1:C:316:ALA:C	0.60	2.80	1	20
2:D:10:LYS:HE3	2:D:11:GLY:CA	0.60	2.26	18	1
1:A:96:ASN:OD1	1:A:96:ASN:C	0.60	2.45	1	20
1:C:248:ALA:O	1:C:249:ASN:HB2	0.60	1.95	1	20
1:A:233:MET:CB	1:A:320:PHE:CE2	0.59	2.85	1	20
1:B:118:GLU:CB	1:C:338:SER:O	0.59	2.50	1	20
1:C:94:MET:HE3	1:C:94:MET:O	0.59	1.96	7	1
1:A:181:GLN:HG2	1:A:183:PHE:CZ	0.59	2.32	1	20
1:B:134:TYR:CZ	1:B:152:GLY:CA	0.59	2.85	1	20
2:D:109:LYS:HD2	2:D:113:GLU:OE2	0.59	1.97	17	1
1:A:318:ALA:C	1:A:319:HIS:CD2	0.59	2.80	1	20
1:B:45:ILE:CD1	1:B:64:PHE:HE1	0.59	2.11	1	20
1:B:249:ASN:O	1:B:250:ARG:HB2	0.59	1.97	1	20
1:C:97:ILE:CG1	1:C:99:PHE:CE1	0.59	2.83	1	20
2:D:16:MET:SD	2:D:40:HIS:HE1	0.59	2.19	13	8
1:C:204:GLU:HG3	2:D:10:LYS:CB	0.59	2.27	3	2
1:A:232:ALA:O	1:A:233:MET:O	0.59	2.20	1	20
2:D:10:LYS:HZ3	2:D:14:GLY:C	0.59	2.02	20	2
1:C:116:PRO:HG2	2:D:109:LYS:N	0.59	2.09	17	1
1:B:193:TYR:HH	1:B:217:HIS:CE1	0.59	2.14	1	20
1:C:133:VAL:HG23	1:C:288:ALA:HB2	0.59	1.73	1	20
1:B:30:GLN:OE1	1:B:171:THR:HG23	0.59	1.98	1	20
1:A:304:VAL:HG11	1:A:317:ALA:HB1	0.59	1.73	1	20
1:C:203:TYR:CB	2:D:10:LYS:HB2	0.59	2.28	15	1
1:B:172:TYR:HB3	1:B:292:PHE:CE2	0.59	2.32	1	20
2:D:38:LYS:HE2	2:D:38:LYS:H	0.59	1.57	2	2
2:D:16:MET:CE	2:D:84:MET:CE	0.59	2.80	16	1
2:D:44:SER:CB	2:D:56:PHE:CZ	0.59	2.85	14	20
1:B:301:TYR:N	1:B:301:TYR:CD1	0.59	2.70	1	20
1:C:305:ASN:ND2	1:C:310:GLU:OE1	0.59	2.36	1	20
1:A:30:GLN:O	1:A:76:HIS:NE2	0.58	2.31	1	20
1:A:260:HIS:CE1	1:C:102:ALA:O	0.58	2.56	1	20
1:B:233:MET:CG	1:B:320:PHE:CZ	0.58	2.86	1	20
1:C:159:ARG:CG	1:C:159:ARG:NH1	0.58	2.63	1	20
1:C:116:PRO:HG2	2:D:109:LYS:HB3	0.58	1.75	20	2
1:C:141:MET:HB2	2:D:84:MET:SD	0.58	2.38	17	1
1:C:97:ILE:HD11	1:C:99:PHE:CZ	0.58	2.33	1	20
1:C:292:PHE:C	1:C:292:PHE:HD1	0.58	2.02	1	20
1:C:115:ASN:HD21	2:D:83:ALA:CA	0.58	2.11	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:279:GLU:C	1:A:281:TRP:HZ3	0.58	2.03	1	20
1:A:304:VAL:HG12	1:A:317:ALA:HA	0.58	1.73	1	20
1:B:284:PRO:O	1:B:285:GLY:C	0.58	2.46	1	20
1:C:198:ALA:HB1	1:C:199:PRO:HD2	0.58	1.74	1	20
1:A:173:ASP:OD2	1:A:240:LYS:HG3	0.58	1.99	1	20
1:A:220:PHE:O	1:A:221:ASN:CB	0.58	2.52	1	20
1:B:118:GLU:HA	1:C:338:SER:O	0.58	1.98	1	20
1:C:307:ASN:CB	1:C:310:GLU:CG	0.58	2.81	1	20
1:C:117:GLY:CA	2:D:109:LYS:NZ	0.58	2.65	19	1
1:A:174:LYS:HE2	1:A:176:TYR:CE2	0.58	2.34	1	20
1:B:193:TYR:CE1	1:B:217:HIS:HE1	0.58	2.16	1	20
1:C:116:PRO:HG2	2:D:110:ILE:CG1	0.58	2.28	13	1
1:A:249:ASN:OD1	1:B:308:LEU:N	0.58	2.36	1	20
1:C:99:PHE:CD2	1:C:134:TYR:CB	0.58	2.85	1	20
1:C:203:TYR:CG	2:D:10:LYS:HG2	0.58	2.34	3	3
2:D:81:HIS:HD2	2:D:84:MET:SD	0.58	2.22	16	1
1:A:142:VAL:CB	1:A:143:PRO:CD	0.58	2.82	1	20
1:A:193:TYR:CZ	1:A:217:HIS:CE1	0.58	2.91	1	20
1:B:193:TYR:CZ	1:B:217:HIS:NE2	0.58	2.72	1	20
2:D:10:LYS:CE	2:D:14:GLY:C	0.58	2.77	1	1
2:D:109:LYS:HD2	2:D:109:LYS:O	0.58	1.99	6	1
1:B:292:PHE:CD1	1:B:292:PHE:C	0.58	2.81	1	20
1:C:116:PRO:HB3	2:D:109:LYS:HG2	0.58	1.74	6	2
1:C:142:VAL:CB	1:C:143:PRO:CD	0.57	2.80	1	20
2:D:50:PRO:HD3	2:D:74:TYR:CE1	0.57	2.34	3	20
1:C:141:MET:SD	1:C:203:TYR:CE2	0.57	2.97	17	2
1:B:104:GLY:O	1:B:105:ALA:HB3	0.57	1.97	1	20
1:B:146:VAL:HG11	1:B:248:ALA:O	0.57	1.98	1	20
1:C:92:THR:CB	2:D:109:LYS:HG3	0.57	2.27	17	1
1:A:304:VAL:CG1	1:A:317:ALA:CA	0.57	2.80	1	20
1:B:304:VAL:CG1	1:B:317:ALA:CA	0.57	2.82	1	20
1:C:249:ASN:O	1:C:250:ARG:HB2	0.57	1.97	1	20
1:C:80:TYR:CE2	1:C:125:LYS:HG3	0.57	2.34	1	20
1:C:183:PHE:C	1:C:184:TYR:CD1	0.57	2.83	2	20
1:C:94:MET:HG2	1:C:114:ILE:O	0.57	1.98	17	2
1:C:200:GLY:HA3	2:D:14:GLY:HA2	0.57	1.77	13	1
1:C:203:TYR:CD1	2:D:9:ASN:CB	0.57	2.87	16	1
1:A:80:TYR:N	1:A:80:TYR:CD1	0.57	2.73	1	20
1:B:253:ARG:HG2	1:B:305:ASN:OD1	0.57	1.99	1	20
1:C:203:TYR:HB3	2:D:10:LYS:HB2	0.57	1.76	15	1
1:C:97:ILE:CD1	1:C:99:PHE:CE1	0.57	2.88	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:97:ILE:CD1	1:C:99:PHE:CZ	0.57	2.88	1	20
1:C:140:GLY:HA3	2:D:81:HIS:NE2	0.57	2.12	1	3
1:C:203:TYR:CE1	2:D:15:ALA:CB	0.57	2.84	20	3
1:C:90:THR:C	2:D:109:LYS:HZ3	0.57	2.05	18	1
1:A:134:TYR:CZ	1:A:152:GLY:CA	0.57	2.87	1	20
1:A:233:MET:HB2	1:A:320:PHE:CD2	0.57	2.34	1	20
1:B:253:ARG:HH12	1:B:307:ASN:HD22	0.57	1.42	1	20
1:C:45:ILE:HD11	1:C:85:LEU:CD2	0.57	2.24	1	20
1:C:203:TYR:CE1	1:C:207:VAL:CG2	0.57	2.88	6	2
1:B:81:LEU:HB3	1:B:124:PHE:CE2	0.57	2.35	1	20
1:B:307:ASN:CG	1:B:310:GLU:CG	0.57	2.78	1	20
1:C:292:PHE:CD1	1:C:293:TYR:N	0.57	2.73	1	20
1:C:203:TYR:CD1	2:D:10:LYS:CD	0.57	2.88	20	1
1:A:292:PHE:CD1	1:A:292:PHE:C	0.57	2.81	1	20
1:A:303:TYR:C	1:A:303:TYR:CD1	0.57	2.83	1	20
1:B:163:HIS:CD2	1:B:169:ALA:HA	0.57	2.35	1	20
1:B:305:ASN:O	1:B:311:ALA:HB2	0.57	2.00	1	20
1:C:81:LEU:C	1:C:81:LEU:HD23	0.57	2.25	1	20
1:C:94:MET:CB	1:C:115:ASN:HD21	0.57	2.07	6	1
1:A:14:ARG:NE	1:A:38:VAL:HB	0.56	2.15	1	20
1:A:133:VAL:HG23	1:A:288:ALA:HB2	0.56	1.77	1	20
1:C:181:GLN:HG2	1:C:183:PHE:CZ	0.56	2.34	1	20
1:C:141:MET:HE1	2:D:84:MET:HB3	0.56	1.75	20	1
1:A:157:LEU:CD2	1:A:162:LEU:HD21	0.56	2.27	1	20
1:B:233:MET:SD	1:B:320:PHE:HZ	0.56	2.11	1	20
1:C:17:VAL:CG2	1:C:41:PHE:CZ	0.56	2.88	1	20
1:C:94:MET:HB2	2:D:83:ALA:O	0.56	1.97	13	3
2:D:10:LYS:CE	2:D:10:LYS:C	0.56	2.78	18	1
1:A:45:ILE:CG1	1:A:64:PHE:CD1	0.56	2.87	1	20
1:A:94:MET:SD	1:A:95:HIS:O	0.56	2.63	1	20
1:A:174:LYS:HE2	1:A:176:TYR:CZ	0.56	2.35	1	20
1:A:228:THR:HB	1:A:319:HIS:ND1	0.56	2.15	1	20
1:C:89:GLU:C	2:D:109:LYS:HD3	0.56	2.25	1	2
1:C:200:GLY:O	2:D:10:LYS:CE	0.56	2.51	1	1
1:C:254:PRO:HB3	1:C:303:TYR:OH	0.56	2.00	1	20
2:D:44:SER:HB3	2:D:56:PHE:CE1	0.56	2.36	18	20
1:C:116:PRO:CB	2:D:109:LYS:CB	0.56	2.82	4	4
1:C:204:GLU:CG	2:D:10:LYS:CB	0.56	2.83	7	2
2:D:1:GLU:OE1	2:D:1:GLU:HA	0.56	1.97	14	6
2:D:10:LYS:HD2	2:D:14:GLY:C	0.56	2.25	20	2
1:B:257:ILE:HD12	1:B:302:ALA:HB3	0.56	1.75	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:45:ILE:CG1	1:C:64:PHE:CD1	0.56	2.89	1	20
1:C:278:GLN:O	1:C:281:TRP:HZ3	0.56	1.80	1	20
1:A:118:GLU:HA	1:B:338:SER:O	0.56	2.00	1	20
1:B:69:PRO:HG3	1:B:179:GLY:HA3	0.56	1.76	1	20
1:C:216:THR:OG1	1:C:217:HIS:ND1	0.56	2.38	1	20
1:B:138:PRO:HG2	1:B:145:HIS:CE1	0.56	2.35	1	20
1:B:254:PRO:HB3	1:B:303:TYR:OH	0.56	2.01	1	20
1:C:204:GLU:HB2	2:D:10:LYS:HG3	0.56	1.78	4	6
2:D:10:LYS:HE3	2:D:11:GLY:C	0.56	2.25	16	2
1:C:318:ALA:C	1:C:319:HIS:CD2	0.56	2.83	1	20
2:D:10:LYS:HD3	2:D:11:GLY:H	0.56	1.58	11	1
1:C:89:GLU:CA	2:D:109:LYS:CD	0.56	2.84	1	2
1:C:280:THR:N	1:C:281:TRP:CZ3	0.56	2.74	8	20
1:A:100:HIS:HD1	1:B:279:GLU:HB2	0.56	1.58	1	20
1:A:183:PHE:C	1:A:184:TYR:CD1	0.56	2.83	1	20
1:C:203:TYR:HB3	2:D:10:LYS:HG3	0.56	1.76	15	2
1:A:228:THR:CG2	1:A:318:ALA:HA	0.55	2.31	1	20
1:C:140:GLY:C	1:C:141:MET:HG2	0.55	2.26	11	1
1:C:203:TYR:HD2	2:D:15:ALA:HA	0.55	1.60	11	1
1:A:159:ARG:HH11	1:A:159:ARG:HG3	0.55	1.40	1	20
1:B:95:HIS:O	1:B:96:ASN:HB3	0.55	1.99	1	20
1:B:174:LYS:HE2	1:B:176:TYR:CE2	0.55	2.36	1	20
1:B:305:ASN:ND2	1:B:310:GLU:OE1	0.55	2.39	1	20
1:C:204:GLU:HG2	2:D:10:LYS:HG3	0.55	1.78	4	1
1:C:94:MET:CE	1:C:95:HIS:C	0.55	2.65	7	1
1:C:94:MET:HG2	1:C:115:ASN:N	0.55	2.16	7	2
1:C:204:GLU:HB3	2:D:10:LYS:HD3	0.55	1.77	17	1
1:C:204:GLU:HG3	2:D:10:LYS:HE2	0.55	1.72	20	1
1:B:26:HIS:HE1	1:B:74:VAL:N	0.55	1.98	1	20
1:C:235:ALA:O	1:C:322:VAL:CG1	0.55	2.53	1	20
1:B:100:HIS:ND1	1:C:255:HIS:HE1	0.55	1.98	1	20
1:C:133:VAL:CG1	1:C:248:ALA:HB2	0.55	2.31	1	20
1:C:94:MET:HE1	1:C:138:PRO:HB3	0.55	1.78	6	2
1:B:249:ASN:OD1	1:C:308:LEU:HB2	0.55	2.00	20	20
1:C:90:THR:N	2:D:109:LYS:NZ	0.55	2.52	1	3
2:D:1:GLU:HA	2:D:1:GLU:OE1	0.55	1.98	3	3
1:C:92:THR:O	2:D:110:ILE:HG21	0.55	1.92	18	1
1:C:117:GLY:HA3	2:D:109:LYS:HZ2	0.55	1.60	19	1
1:C:196:TYR:O	1:C:197:GLU:OE2	0.55	2.24	1	20
1:C:204:GLU:HG3	2:D:10:LYS:HB3	0.55	1.77	20	6
2:D:78:CYS:SG	2:D:80:PRO:HD2	0.55	2.42	15	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:144:TRP:CE2	1:C:203:TYR:CD1	0.55	2.93	7	4
1:C:200:GLY:O	2:D:10:LYS:CB	0.55	2.54	16	1
1:C:117:GLY:HA3	2:D:109:LYS:HZ3	0.55	1.60	19	1
1:A:69:PRO:HG3	1:A:179:GLY:HA3	0.55	1.77	1	20
1:A:96:ASN:O	1:A:136:CYS:HA	0.55	2.01	1	20
1:A:221:ASN:OD1	1:A:227:LEU:HD21	0.55	2.01	1	20
1:A:254:PRO:HB3	1:A:303:TYR:OH	0.55	2.02	1	20
1:C:94:MET:HE3	2:D:83:ALA:HB3	0.55	1.76	8	1
1:C:69:PRO:O	1:C:70:GLY:C	0.55	2.49	1	20
1:C:62:MET:CE	1:C:144:TRP:CH2	0.55	2.90	20	1
1:A:30:GLN:CD	1:A:171:THR:HG23	0.55	2.26	1	20
1:A:253:ARG:HG2	1:A:305:ASN:OD1	0.54	2.02	1	20
1:A:278:GLN:O	1:A:281:TRP:HZ3	0.54	1.84	1	20
1:A:304:VAL:CB	1:A:317:ALA:HA	0.54	2.32	1	20
1:B:233:MET:HB2	1:B:320:PHE:CD1	0.54	2.36	1	20
1:A:255:HIS:ND1	1:C:100:HIS:HE1	0.54	1.96	19	20
1:B:118:GLU:HG2	1:C:338:SER:O	0.54	2.03	1	20
1:C:96:ASN:OD1	1:C:96:ASN:C	0.54	2.48	1	20
1:C:301:TYR:N	1:C:301:TYR:CD1	0.54	2.75	1	20
2:D:16:MET:CE	2:D:84:MET:HE1	0.54	2.33	16	1
2:D:16:MET:HE3	2:D:81:HIS:ND1	0.54	2.17	19	1
1:A:159:ARG:CG	1:A:159:ARG:NH1	0.54	2.34	1	20
2:D:10:LYS:NZ	2:D:14:GLY:H	0.54	1.95	1	1
1:C:116:PRO:CG	2:D:109:LYS:H	0.54	2.12	17	1
1:A:98:ASP:HA	1:A:107:GLY:O	0.54	2.01	1	20
1:B:286:GLY:CA	1:C:306:HIS:HD1	0.54	2.12	1	20
1:C:64:PHE:CE2	1:C:150:MET:HE2	0.54	2.38	2	20
1:C:141:MET:SD	2:D:16:MET:SD	0.54	3.06	16	2
1:C:141:MET:HE3	2:D:84:MET:SD	0.54	2.43	17	1
2:D:1:GLU:OE2	2:D:1:GLU:HA	0.54	2.02	20	10
1:C:141:MET:HE3	1:C:203:TYR:CZ	0.54	2.38	4	1
1:C:141:MET:HE2	1:C:203:TYR:HE2	0.54	1.61	13	1
1:B:211:ARG:HH11	1:B:211:ARG:CG	0.54	2.15	1	20
1:C:134:TYR:CD1	1:C:134:TYR:C	0.54	2.85	1	20
2:D:109:LYS:HE3	2:D:113:GLU:OE2	0.54	2.02	14	1
1:A:45:ILE:CD1	1:A:64:PHE:HE1	0.54	2.15	1	20
1:A:81:LEU:HB3	1:A:124:PHE:CE2	0.54	2.38	1	20
1:B:240:LYS:CB	1:B:292:PHE:HZ	0.54	2.11	1	20
1:C:204:GLU:HG2	2:D:10:LYS:HB3	0.54	1.77	7	2
2:D:7:MET:HG3	2:D:18:PHE:CE1	0.54	2.38	18	20
1:C:64:PHE:CE2	1:C:150:MET:CE	0.54	2.91	2	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:99:PHE:CE2	1:C:134:TYR:CB	0.54	2.91	1	20
1:A:198:ALA:HB1	1:A:199:PRO:CD	0.54	2.32	1	20
1:A:286:GLY:CA	1:B:306:HIS:HD1	0.54	2.11	1	20
1:C:253:ARG:HG2	1:C:305:ASN:OD1	0.54	2.03	1	20
1:C:116:PRO:CG	2:D:109:LYS:HB3	0.54	2.33	4	2
1:B:72:LEU:HD12	1:B:153:ALA:C	0.54	2.24	1	20
1:C:320:PHE:CD1	1:C:320:PHE:N	0.54	2.76	1	20
1:C:62:MET:SD	1:C:145:HIS:HA	0.54	2.42	20	1
1:A:240:LYS:CB	1:A:292:PHE:HZ	0.53	2.10	1	20
1:B:118:GLU:CA	1:C:338:SER:O	0.53	2.56	1	20
1:B:143:PRO:O	1:B:147:VAL:HG22	0.53	2.03	1	20
1:B:235:ALA:O	1:B:322:VAL:HG13	0.53	2.03	1	20
1:B:307:ASN:CB	1:B:310:GLU:CG	0.53	2.81	1	20
1:C:203:TYR:HB3	2:D:10:LYS:HD3	0.53	1.79	20	3
1:C:278:GLN:C	1:C:281:TRP:HZ3	0.53	2.10	1	20
1:B:69:PRO:O	1:B:70:GLY:C	0.53	2.49	1	20
1:C:204:GLU:HB2	2:D:10:LYS:HZ3	0.53	1.57	18	1
1:A:318:ALA:O	1:A:319:HIS:HD2	0.53	1.84	1	20
1:B:304:VAL:CG1	1:B:317:ALA:CB	0.53	2.87	1	20
1:C:94:MET:CB	1:C:115:ASN:HD22	0.53	2.13	11	2
1:C:94:MET:H	2:D:84:MET:HG2	0.53	1.64	16	1
1:A:96:ASN:OD1	1:A:96:ASN:O	0.53	2.26	1	20
1:B:100:HIS:HD1	1:C:279:GLU:HB2	0.53	1.64	1	20
1:B:134:TYR:CD1	1:B:134:TYR:C	0.53	2.86	1	20
1:C:204:GLU:HB2	2:D:10:LYS:HB3	0.53	1.81	8	1
1:A:232:ALA:CB	1:A:319:HIS:O	0.53	2.52	1	20
1:A:337:PRO:HB3	1:C:114:ILE:HG22	0.53	1.80	1	20
1:B:81:LEU:C	1:B:81:LEU:HD23	0.53	2.29	1	20
1:C:304:VAL:HG11	1:C:317:ALA:CB	0.53	2.33	1	20
1:C:92:THR:HB	2:D:110:ILE:HD13	0.53	1.76	4	2
1:C:89:GLU:CB	2:D:109:LYS:HZ1	0.53	2.15	11	1
1:B:96:ASN:O	1:B:136:CYS:HA	0.53	2.03	1	20
1:C:136:CYS:HB3	1:C:150:MET:HG2	0.53	1.81	1	20
1:C:196:TYR:CD1	1:C:196:TYR:N	0.53	2.77	1	20
2:D:38:LYS:H	2:D:38:LYS:CE	0.53	2.16	2	13
1:C:145:HIS:HE2	2:D:84:MET:CE	0.53	2.15	7	2
1:C:94:MET:CE	2:D:83:ALA:HB3	0.53	2.34	8	1
1:C:141:MET:HE2	1:C:144:TRP:CE3	0.53	2.39	8	5
1:C:204:GLU:OE1	2:D:10:LYS:HD2	0.53	2.04	8	1
1:A:240:LYS:HB2	1:A:292:PHE:CZ	0.53	2.38	1	20
1:A:247:GLN:CD	1:A:250:ARG:HB3	0.53	2.29	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:D:16:MET:CE	2:D:81:HIS:CD2	0.53	2.91	19	1
1:A:96:ASN:OD1	1:A:137:ALA:N	0.52	2.31	1	20
1:A:134:TYR:C	1:A:134:TYR:CD1	0.52	2.87	1	20
1:B:131:VAL:C	1:B:132:PHE:CD1	0.52	2.87	1	20
1:B:269:LYS:HG3	1:C:277:ASP:O	0.52	2.04	1	20
1:C:141:MET:CE	2:D:9:ASN:O	0.52	2.57	6	1
1:C:204:GLU:HB3	2:D:10:LYS:HE3	0.52	1.79	8	1
2:D:16:MET:CE	2:D:84:MET:SD	0.52	2.97	16	1
1:A:220:PHE:O	1:A:221:ASN:HB2	0.52	2.03	1	20
1:B:211:ARG:CG	1:B:211:ARG:NH1	0.52	2.71	1	20
1:B:278:GLN:O	1:B:281:TRP:HZ3	0.52	1.83	1	20
1:C:220:PHE:O	1:C:221:ASN:CB	0.52	2.54	1	20
2:D:73:ALA:C	2:D:74:TYR:CD1	0.52	2.88	3	20
1:A:104:GLY:O	1:A:105:ALA:HB3	0.52	2.03	1	20
1:B:307:ASN:HB3	1:B:310:GLU:OE1	0.52	1.96	1	20
1:C:193:TYR:CZ	1:C:217:HIS:HE1	0.52	2.22	1	20
1:A:174:LYS:HE2	1:A:176:TYR:OH	0.52	2.05	1	20
1:B:183:PHE:C	1:B:184:TYR:CD1	0.52	2.88	1	20
1:B:257:ILE:HG13	1:B:302:ALA:O	0.52	2.05	1	20
1:C:204:GLU:OE1	2:D:10:LYS:HB3	0.52	2.04	8	2
1:C:204:GLU:HB2	2:D:10:LYS:HD2	0.52	1.79	6	2
1:C:201:ASP:HA	2:D:10:LYS:HD3	0.52	1.80	16	1
1:A:307:ASN:HB3	1:A:310:GLU:CD	0.52	2.22	1	20
1:B:162:LEU:HD22	1:B:270:PHE:CD1	0.52	2.37	1	20
1:C:104:GLY:O	1:C:105:ALA:HB3	0.52	2.04	1	20
1:C:116:PRO:HG2	2:D:110:ILE:CG2	0.52	2.35	10	2
1:C:116:PRO:HB3	2:D:109:LYS:CG	0.52	2.27	6	1
1:C:204:GLU:N	2:D:10:LYS:CB	0.52	2.72	15	1
1:A:69:PRO:C	1:A:70:GLY:O	0.52	2.53	1	20
1:A:269:LYS:HG3	1:B:277:ASP:O	0.52	2.05	1	20
1:C:14:ARG:CD	1:C:38:VAL:HB	0.52	2.34	1	20
1:A:84:THR:OG1	1:A:121:ILE:HG12	0.52	2.04	1	20
1:A:137:ALA:HB1	1:A:142:VAL:HG22	0.52	1.81	1	20
1:B:182:ASP:OD1	1:B:182:ASP:N	0.52	2.42	1	20
1:B:240:LYS:HB2	1:B:292:PHE:CZ	0.52	2.40	1	20
1:C:77:GLN:O	1:C:78:ASP:HB2	0.52	2.05	1	20
1:C:115:ASN:HB3	2:D:108:PRO:HB3	0.52	1.79	8	1
1:B:118:GLU:CG	1:C:338:SER:O	0.52	2.58	1	20
2:D:35:PRO:HD2	2:D:63:ASN:OD1	0.52	2.05	4	20
1:A:53:ASP:OD1	1:A:57:THR:N	0.52	2.37	1	20
1:B:99:PHE:CD1	1:B:134:TYR:CB	0.52	2.92	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:173:ASP:OD2	1:B:240:LYS:HG3	0.52	2.04	1	20
1:B:221:ASN:HB3	1:B:226:ALA:CB	0.52	2.35	1	20
1:C:69:PRO:C	1:C:70:GLY:O	0.52	2.53	1	20
1:C:203:TYR:HD1	2:D:10:LYS:CD	0.52	2.18	20	1
1:A:146:VAL:HG21	1:B:308:LEU:HD11	0.52	1.82	1	20
1:A:249:ASN:OD1	1:B:308:LEU:HB2	0.52	2.04	1	20
1:C:96:ASN:OD1	1:C:96:ASN:O	0.52	2.28	1	20
1:C:133:VAL:HG11	1:C:248:ALA:CB	0.52	2.33	1	20
1:C:204:GLU:CD	2:D:10:LYS:HD2	0.52	2.29	13	1
1:A:64:PHE:O	1:A:65:ASN:CB	0.51	2.58	1	20
1:B:233:MET:CB	1:B:320:PHE:CE2	0.51	2.93	1	20
1:B:280:THR:N	1:B:281:TRP:CZ3	0.51	2.77	1	20
1:C:17:VAL:HG21	1:C:41:PHE:CZ	0.51	2.40	1	20
1:C:96:ASN:O	1:C:136:CYS:HA	0.51	2.05	1	20
2:D:110:ILE:HD12	2:D:110:ILE:C	0.51	2.27	2	3
1:C:141:MET:HG3	2:D:84:MET:SD	0.51	2.45	17	1
1:A:228:THR:HG21	1:A:319:HIS:CE1	0.51	2.39	1	20
1:B:69:PRO:C	1:B:70:GLY:O	0.51	2.52	1	20
1:B:259:GLY:O	1:B:260:HIS:ND1	0.51	2.40	1	20
1:C:204:GLU:HG3	2:D:10:LYS:HG3	0.51	1.82	3	2
1:A:53:ASP:OD1	1:A:53:ASP:C	0.51	2.53	1	20
1:B:233:MET:HE3	1:B:233:MET:N	0.51	2.16	1	20
1:C:115:ASN:OD1	1:C:118:GLU:CD	0.51	2.50	14	1
1:B:307:ASN:CG	1:B:310:GLU:HG3	0.51	2.30	1	20
1:C:69:PRO:HG2	1:C:179:GLY:HA3	0.51	1.83	1	20
2:D:50:PRO:HD3	2:D:74:TYR:CD1	0.51	2.41	3	20
1:C:203:TYR:HE1	1:C:207:VAL:HG21	0.51	1.62	6	1
1:C:141:MET:HE3	2:D:15:ALA:CB	0.51	2.35	12	1
1:B:45:ILE:HD11	1:B:85:LEU:CD2	0.51	2.34	1	20
1:B:220:PHE:O	1:B:221:ASN:CB	0.51	2.57	1	20
1:A:280:THR:N	1:A:281:TRP:CZ3	0.51	2.78	1	20
1:B:53:ASP:OD2	1:B:57:THR:OG1	0.51	2.23	1	20
1:B:247:GLN:CA	1:B:247:GLN:OE1	0.51	2.57	1	20
1:C:142:VAL:HB	1:C:143:PRO:HD3	0.51	1.83	1	20
1:C:203:TYR:CE1	2:D:9:ASN:ND2	0.51	2.78	16	1
1:C:204:GLU:CD	2:D:11:GLY:CA	0.51	2.84	20	1
1:B:133:VAL:CG1	1:B:248:ALA:HB2	0.51	2.35	1	20
2:D:10:LYS:CE	2:D:14:GLY:HA2	0.51	2.35	1	1
1:C:94:MET:CE	1:C:95:HIS:CA	0.51	2.89	7	1
1:C:115:ASN:ND2	1:C:115:ASN:H	0.51	1.97	15	1
1:A:162:LEU:C	1:A:163:HIS:ND1	0.51	2.69	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:301:TYR:N	1:A:301:TYR:CD1	0.51	2.77	1	20
1:A:182:ASP:OD1	1:A:182:ASP:N	0.51	2.42	1	20
1:B:202:ALA:O	1:B:206:THR:OG1	0.51	2.23	1	20
1:B:232:ALA:HB1	1:B:319:HIS:O	0.51	2.06	1	20
1:C:159:ARG:NH1	1:C:159:ARG:HG2	0.51	2.20	1	20
1:C:182:ASP:OD1	1:C:182:ASP:N	0.51	2.43	1	20
1:C:116:PRO:CD	2:D:110:ILE:HB	0.51	2.34	13	1
1:C:90:THR:C	2:D:109:LYS:NZ	0.51	2.68	18	1
1:B:43:MET:O	1:B:85:LEU:HD12	0.51	2.06	1	20
1:C:77:GLN:HG2	1:C:78:ASP:OD1	0.51	2.06	1	20
1:C:139:PRO:O	2:D:81:HIS:CD2	0.51	2.64	11	3
1:A:49:LYS:HD3	1:A:60:HIS:CE1	0.50	2.41	1	20
1:A:142:VAL:HB	1:A:143:PRO:HD3	0.50	1.83	1	20
1:C:255:HIS:ND1	1:C:279:GLU:O	0.50	2.43	1	20
1:C:141:MET:SD	1:C:144:TRP:CE3	0.50	3.04	17	1
1:A:69:PRO:O	1:A:70:GLY:C	0.50	2.50	1	20
1:A:124:PHE:CD1	1:A:124:PHE:C	0.50	2.89	1	20
1:C:202:ALA:O	1:C:206:THR:OG1	0.50	2.21	1	20
1:C:304:VAL:HG12	1:C:317:ALA:HA	0.50	1.81	1	20
2:D:115:LEU:O	2:D:118:VAL:CG2	0.50	2.60	1	20
1:A:233:MET:HB3	1:A:320:PHE:CD2	0.50	2.40	1	20
1:B:146:VAL:HG21	1:C:308:LEU:HD11	0.50	1.80	1	20
1:B:303:TYR:C	1:B:303:TYR:CD1	0.50	2.89	1	20
1:C:26:HIS:CD2	1:C:27:ALA:O	0.50	2.64	1	20
1:C:303:TYR:C	1:C:303:TYR:CD1	0.50	2.89	1	20
2:D:7:MET:HG3	2:D:18:PHE:CD1	0.50	2.42	15	20
2:D:22:TYR:CE2	2:D:123:LYS:HA	0.50	2.42	16	20
1:C:144:TRP:CD2	1:C:203:TYR:HE1	0.50	2.15	4	1
1:C:203:TYR:OH	2:D:9:ASN:CB	0.50	2.56	15	1
2:D:10:LYS:HD2	2:D:15:ALA:HA	0.50	1.82	17	2
1:A:232:ALA:HB3	1:A:321:LYS:HE3	0.50	1.82	1	20
1:A:255:HIS:ND1	1:A:279:GLU:O	0.50	2.43	1	20
1:B:64:PHE:CE2	1:B:150:MET:HE2	0.50	2.41	1	20
1:C:278:GLN:C	1:C:281:TRP:CZ3	0.50	2.88	1	20
1:A:36:PRO:C	1:A:37:LYS:HG3	0.50	2.31	1	20
1:A:95:HIS:O	1:A:96:ASN:HB3	0.50	2.05	1	20
1:C:30:GLN:CD	1:C:171:THR:HG23	0.50	2.31	1	20
2:D:50:PRO:HG3	2:D:74:TYR:CE1	0.50	2.38	3	14
1:C:92:THR:HG22	2:D:109:LYS:CE	0.50	2.36	17	1
1:A:17:VAL:CG1	1:A:41:PHE:CE2	0.50	2.95	1	20
1:B:216:THR:CB	1:B:217:HIS:HD1	0.50	2.20	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:49:LYS:CE	1:C:60:HIS:CE1	0.50	2.93	1	20
1:C:64:PHE:O	1:C:65:ASN:CB	0.50	2.58	1	20
2:D:110:ILE:CG2	2:D:111:VAL:N	0.50	2.75	4	4
1:C:92:THR:O	1:C:93:LEU:HD23	0.50	2.06	16	2
1:A:252:THR:OG1	1:A:253:ARG:N	0.50	2.44	1	20
1:A:267:THR:O	1:A:269:LYS:NZ	0.50	2.34	1	20
1:B:64:PHE:O	1:B:65:ASN:CB	0.50	2.59	1	20
1:B:124:PHE:CD1	1:B:124:PHE:C	0.50	2.90	1	20
1:B:164:ASP:C	1:B:164:ASP:OD1	0.50	2.54	1	20
1:C:280:THR:CA	1:C:281:TRP:CE3	0.50	2.95	8	20
1:C:17:VAL:HG11	1:C:41:PHE:CE2	0.50	2.42	1	20
1:C:84:THR:OG1	1:C:121:ILE:HG12	0.50	2.06	1	20
1:C:216:THR:HB	1:C:217:HIS:CE1	0.50	2.42	1	20
2:D:60:ILE:O	2:D:61:ASN:HB2	0.50	2.07	13	20
1:C:204:GLU:HG2	2:D:10:LYS:CB	0.50	2.37	7	2
1:C:116:PRO:HG2	2:D:110:ILE:HG12	0.50	1.83	13	1
1:C:200:GLY:CA	2:D:15:ALA:HB2	0.50	2.36	16	1
1:C:94:MET:CB	2:D:83:ALA:C	0.50	2.82	13	1
1:C:204:GLU:OE2	2:D:11:GLY:CA	0.50	2.58	20	1
1:A:260:HIS:ND1	1:A:260:HIS:N	0.49	2.57	1	20
1:B:64:PHE:CE2	1:B:150:MET:CE	0.49	2.95	1	20
1:B:77:GLN:O	1:B:159:ARG:NH1	0.49	2.45	1	20
1:B:131:VAL:HG23	1:B:288:ALA:O	0.49	2.06	1	20
1:B:233:MET:N	1:B:233:MET:HE2	0.49	2.19	1	20
1:C:89:GLU:HB2	2:D:109:LYS:HD2	0.49	1.76	1	1
1:B:30:GLN:HG2	1:B:172:TYR:CZ	0.49	2.42	1	20
1:B:133:VAL:HG23	1:B:288:ALA:HB2	0.49	1.85	1	20
1:C:93:LEU:HD23	2:D:110:ILE:HG12	0.49	1.83	20	1
1:A:17:VAL:HB	1:A:41:PHE:CZ	0.49	2.42	1	20
1:A:45:ILE:CD1	1:A:64:PHE:CE1	0.49	2.94	1	20
1:B:278:GLN:C	1:B:281:TRP:HZ3	0.49	2.14	1	20
1:C:203:TYR:HD1	2:D:10:LYS:CG	0.49	2.20	20	1
1:B:216:THR:O	1:B:217:HIS:ND1	0.49	2.44	1	20
1:C:26:HIS:HE1	1:C:74:VAL:N	0.49	2.05	1	20
1:C:80:TYR:CE2	1:C:125:LYS:CG	0.49	2.95	1	20
2:D:9:ASN:OD1	2:D:40:HIS:NE2	0.49	2.41	12	13
1:C:144:TRP:CE3	1:C:203:TYR:CE1	0.49	3.01	4	1
1:C:116:PRO:CG	2:D:110:ILE:HG22	0.49	2.37	10	1
1:A:280:THR:CA	1:A:281:TRP:CE3	0.49	2.95	1	20
1:A:303:TYR:O	1:A:304:VAL:CG1	0.49	2.59	1	20
1:A:308:LEU:HD11	1:C:146:VAL:HG21	0.49	1.80	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:141:MET:CE	2:D:16:MET:HG2	0.49	2.37	1	5
1:C:211:ARG:CG	1:C:211:ARG:HH11	0.49	2.21	1	20
2:D:10:LYS:CE	2:D:14:GLY:CA	0.49	2.90	1	1
1:C:94:MET:SD	1:C:138:PRO:HB3	0.49	2.48	13	3
1:C:203:TYR:CD2	2:D:15:ALA:CA	0.49	2.95	7	3
1:A:221:ASN:HB3	1:A:226:ALA:CB	0.49	2.36	1	20
1:B:80:TYR:CE2	1:B:125:LYS:HB2	0.49	2.43	1	20
1:B:328:ASP:O	1:B:329:ASP:C	0.49	2.56	1	20
1:C:235:ALA:C	1:C:322:VAL:HG13	0.49	2.33	1	20
1:A:12:LEU:HB2	1:A:14:ARG:HH21	0.49	1.67	1	20
1:A:80:TYR:CE2	1:A:125:LYS:CG	0.49	2.95	1	20
1:A:233:MET:HB2	1:A:320:PHE:CE2	0.49	2.42	1	20
1:A:328:ASP:OD1	1:A:332:THR:OG1	0.49	2.28	1	20
1:B:233:MET:HB2	1:B:320:PHE:CG	0.49	2.42	1	20
1:C:116:PRO:HG2	2:D:110:ILE:HG22	0.49	1.85	10	1
1:C:203:TYR:C	2:D:10:LYS:HE2	0.49	2.32	11	1
1:A:131:VAL:C	1:A:132:PHE:CD1	0.49	2.90	1	20
1:C:41:PHE:CD1	1:C:41:PHE:N	0.49	2.81	1	20
1:C:318:ALA:O	1:C:319:HIS:HD2	0.49	1.81	1	20
1:C:204:GLU:HG3	2:D:10:LYS:HE3	0.49	1.84	20	2
1:A:19:LEU:HD11	1:A:41:PHE:HB3	0.49	1.84	1	20
1:B:102:ALA:O	1:C:260:HIS:HE1	0.49	1.89	1	20
1:B:233:MET:HE3	1:B:320:PHE:CE1	0.49	2.41	1	20
1:C:203:TYR:CD1	1:C:203:TYR:O	0.49	2.65	6	2
1:C:116:PRO:HB3	2:D:109:LYS:HB3	0.49	1.83	7	1
1:C:94:MET:HG3	2:D:83:ALA:HB3	0.49	1.84	13	1
1:C:114:ILE:C	1:C:115:ASN:HD22	0.49	2.16	15	1
1:A:41:PHE:O	1:A:83:LEU:HD12	0.49	2.08	1	20
1:B:72:LEU:CD1	1:B:153:ALA:O	0.49	2.45	1	20
1:B:220:PHE:CZ	1:B:316:ALA:HB1	0.49	2.42	1	20
1:B:268:GLY:C	1:B:269:LYS:HD3	0.49	2.32	1	20
1:C:130:GLY:O	1:C:132:PHE:HD1	0.49	1.83	1	20
1:A:17:VAL:CG1	1:A:41:PHE:HE2	0.48	2.20	1	20
1:B:193:TYR:CE1	1:B:217:HIS:CE1	0.48	2.98	1	20
1:C:204:GLU:HA	2:D:10:LYS:CG	0.48	2.37	11	1
1:C:204:GLU:CD	2:D:11:GLY:C	0.48	2.80	20	1
1:A:80:TYR:CE2	1:A:125:LYS:CB	0.48	2.96	1	20
1:A:235:ALA:C	1:A:322:VAL:HG13	0.48	2.30	1	20
1:A:277:ASP:O	1:C:269:LYS:HG3	0.48	2.08	20	20
1:C:163:HIS:CD2	1:C:169:ALA:HA	0.48	2.44	1	20
1:C:211:ARG:CG	1:C:211:ARG:NH1	0.48	2.75	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:305:ASN:O	1:C:311:ALA:HB2	0.48	2.08	1	20
1:C:201:ASP:CA	2:D:10:LYS:HD3	0.48	2.38	16	1
1:B:98:ASP:HA	1:B:107:GLY:O	0.48	2.08	1	20
1:B:280:THR:CA	1:B:281:TRP:CE3	0.48	2.96	1	20
1:C:135:HIS:HD1	1:C:135:HIS:C	0.48	2.16	5	20
1:C:247:GLN:CD	1:C:250:ARG:HB3	0.48	2.32	1	20
1:C:116:PRO:HB2	2:D:109:LYS:HG2	0.48	1.80	11	1
1:A:135:HIS:O	1:A:135:HIS:ND1	0.48	2.46	1	20
1:A:216:THR:HB	1:A:217:HIS:CE1	0.48	2.42	1	20
1:C:307:ASN:HB2	1:C:310:GLU:OE1	0.48	2.04	1	20
2:D:94:ASP:OD1	2:D:94:ASP:N	0.48	2.47	17	17
1:A:257:ILE:HD12	1:A:302:ALA:HB3	0.48	1.84	1	20
1:A:320:PHE:CD1	1:A:320:PHE:N	0.48	2.81	1	20
1:B:94:MET:SD	1:B:95:HIS:N	0.48	2.87	1	20
1:B:142:VAL:HB	1:B:143:PRO:HD3	0.48	1.83	1	20
1:C:53:ASP:C	1:C:53:ASP:OD1	0.48	2.56	1	20
1:C:180:GLU:HB2	1:C:245:HIS:NE2	0.48	2.24	1	20
1:C:204:GLU:HB3	2:D:10:LYS:HZ2	0.48	1.68	17	1
1:B:135:HIS:O	1:B:135:HIS:ND1	0.48	2.46	1	20
1:B:303:TYR:O	1:B:304:VAL:CG1	0.48	2.62	1	20
1:C:131:VAL:C	1:C:132:PHE:CD1	0.48	2.91	1	20
1:C:155:MET:HE1	1:C:175:ILE:CD1	0.48	2.39	1	20
1:C:249:ASN:O	1:C:250:ARG:CB	0.48	2.60	1	20
1:C:134:TYR:OH	1:C:152:GLY:HA3	0.48	2.07	1	20
1:C:94:MET:HG2	1:C:115:ASN:HA	0.48	1.83	7	2
1:A:102:ALA:O	1:B:260:HIS:HE1	0.48	1.90	1	20
1:A:228:THR:CG2	1:A:319:HIS:ND1	0.48	2.76	1	20
1:B:17:VAL:HG11	1:B:41:PHE:HE2	0.48	1.65	1	20
1:B:320:PHE:CD1	1:B:320:PHE:N	0.48	2.81	1	20
1:C:201:ASP:N	2:D:10:LYS:HD3	0.48	2.24	16	1
1:C:201:ASP:CG	2:D:10:LYS:NZ	0.48	2.65	16	1
1:C:204:GLU:CB	2:D:10:LYS:CG	0.48	2.84	18	2
1:C:89:GLU:HB3	2:D:109:LYS:CE	0.48	2.37	13	1
1:A:43:MET:O	1:A:85:LEU:HD12	0.47	2.09	1	20
1:A:134:TYR:OH	1:A:152:GLY:HA3	0.47	2.09	1	20
1:A:306:HIS:HD1	1:C:286:GLY:CA	0.47	2.15	1	20
1:B:134:TYR:OH	1:B:152:GLY:HA3	0.47	2.09	1	20
2:D:10:LYS:CE	2:D:11:GLY:H	0.47	2.07	20	1
1:B:230:ASP:OD1	1:B:231:LYS:HG2	0.47	2.09	1	20
1:C:124:PHE:CD1	1:C:124:PHE:C	0.47	2.92	1	20
1:C:141:MET:HE3	2:D:16:MET:HG2	0.47	1.85	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:202:ALA:O	1:A:206:THR:OG1	0.47	2.25	1	20
1:B:136:CYS:HB3	1:B:150:MET:HG2	0.47	1.85	1	20
1:B:217:HIS:ND1	1:B:217:HIS:N	0.47	2.62	1	20
1:B:233:MET:HB2	1:B:320:PHE:CE1	0.47	2.44	1	20
1:B:304:VAL:CB	1:B:317:ALA:HA	0.47	2.38	1	20
1:C:115:ASN:HD21	2:D:83:ALA:HB2	0.47	1.68	1	1
2:D:10:LYS:HE2	2:D:14:GLY:HA2	0.47	1.86	1	1
1:C:94:MET:CB	2:D:83:ALA:HB3	0.47	2.33	7	1
1:C:116:PRO:CG	2:D:110:ILE:HB	0.47	2.39	13	1
1:A:99:PHE:CE2	1:A:134:TYR:CB	0.47	2.97	1	20
1:A:278:GLN:NE2	1:C:269:LYS:HG3	0.47	2.23	1	20
1:C:216:THR:C	1:C:217:HIS:CG	0.47	2.92	1	20
1:A:232:ALA:C	1:A:233:MET:O	0.47	2.57	1	20
1:C:204:GLU:HG3	2:D:10:LYS:HD2	0.47	1.84	6	1
1:C:92:THR:HB	2:D:109:LYS:HG3	0.47	1.85	17	1
1:C:62:MET:HE2	1:C:144:TRP:CZ3	0.47	2.41	20	1
1:C:26:HIS:HD2	1:C:27:ALA:O	0.47	1.93	1	20
1:C:115:ASN:HD22	2:D:83:ALA:HA	0.47	1.69	1	2
1:C:304:VAL:HG23	1:C:305:ASN:O	0.47	2.10	1	20
1:C:92:THR:CB	2:D:109:LYS:HG2	0.47	2.39	17	1
1:C:203:TYR:C	2:D:10:LYS:HD3	0.47	2.35	20	1
1:A:136:CYS:HB3	1:A:150:MET:HG2	0.47	1.87	1	20
1:A:228:THR:CB	1:A:319:HIS:ND1	0.47	2.78	1	20
1:A:274:PRO:O	1:A:275:ASP:C	0.47	2.56	1	20
1:B:69:PRO:HG2	1:B:179:GLY:HA3	0.47	1.87	1	20
1:B:300:ILE:C	1:B:301:TYR:CD1	0.47	2.93	1	20
1:C:80:TYR:CD1	1:C:80:TYR:N	0.47	2.82	1	20
1:C:134:TYR:CE2	1:C:152:GLY:C	0.47	2.93	1	20
1:C:94:MET:HB2	2:D:83:ALA:CA	0.47	2.38	7	1
1:A:304:VAL:HG23	1:A:305:ASN:O	0.47	2.09	1	20
1:B:174:LYS:HG3	1:B:241:VAL:HG13	0.47	1.86	1	20
1:C:26:HIS:CE1	1:C:74:VAL:HB	0.47	2.45	1	20
2:D:50:PRO:CG	2:D:74:TYR:OH	0.47	2.59	14	7
1:C:94:MET:HG3	2:D:83:ALA:HB1	0.47	1.86	10	2
1:A:274:PRO:O	1:A:275:ASP:O	0.47	2.33	1	20
1:B:300:ILE:HD13	1:B:321:LYS:HA	0.47	1.87	1	20
1:C:94:MET:HE1	1:C:138:PRO:CB	0.47	2.40	6	1
1:C:141:MET:HE1	2:D:9:ASN:CA	0.47	2.40	11	1
1:C:115:ASN:HD22	2:D:108:PRO:HB3	0.47	1.68	12	1
1:C:204:GLU:N	2:D:10:LYS:HD3	0.47	2.25	20	1
1:A:12:LEU:HB2	1:A:14:ARG:NH2	0.47	2.23	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:80:TYR:CD1	1:B:80:TYR:N	0.47	2.83	1	20
1:C:141:MET:HE1	2:D:16:MET:N	0.47	2.25	6	1
1:C:94:MET:HB2	2:D:83:ALA:C	0.47	2.34	7	1
1:C:94:MET:CB	2:D:83:ALA:HB2	0.47	2.32	17	1
1:A:164:ASP:OD1	1:A:164:ASP:C	0.46	2.57	1	20
1:A:304:VAL:HB	1:A:317:ALA:HA	0.46	1.85	1	20
1:A:305:ASN:O	1:A:311:ALA:HB2	0.46	2.09	1	20
1:B:104:GLY:O	1:B:105:ALA:CB	0.46	2.63	1	20
1:C:204:GLU:HG2	2:D:10:LYS:CG	0.46	2.39	4	1
1:B:96:ASN:OD1	1:B:137:ALA:N	0.46	2.36	1	20
1:B:146:VAL:HG21	1:C:308:LEU:HD12	0.46	1.83	1	20
1:B:220:PHE:CE2	1:B:316:ALA:C	0.46	2.93	1	20
1:C:70:GLY:CA	1:C:134:TYR:OH	0.46	2.63	1	20
1:C:97:ILE:HG23	1:C:97:ILE:O	0.46	2.10	1	20
1:C:307:ASN:HB3	1:C:310:GLU:OE1	0.46	2.11	1	20
1:C:141:MET:HE2	1:C:203:TYR:CD2	0.46	2.45	18	1
1:A:303:TYR:C	1:A:304:VAL:HG12	0.46	2.32	1	20
1:B:100:HIS:CE1	1:C:255:HIS:ND1	0.46	2.82	1	20
1:B:180:GLU:OE2	1:B:218:VAL:CG1	0.46	2.64	1	20
1:B:180:GLU:HB2	1:B:245:HIS:NE2	0.46	2.25	1	20
1:A:300:ILE:C	1:A:301:TYR:CD1	0.46	2.94	1	20
1:B:41:PHE:O	1:B:83:LEU:HD12	0.46	2.10	1	20
1:C:89:GLU:HB2	2:D:109:LYS:HD3	0.46	1.85	3	1
1:A:14:ARG:HG3	1:A:38:VAL:HG12	0.46	1.86	1	20
1:A:274:PRO:C	1:A:275:ASP:O	0.46	2.58	1	20
1:B:249:ASN:O	1:B:250:ARG:CB	0.46	2.61	1	20
1:C:203:TYR:HE2	2:D:9:ASN:O	0.46	1.89	11	2
2:D:74:TYR:CD1	2:D:74:TYR:N	0.46	2.84	3	20
1:C:203:TYR:CB	2:D:10:LYS:HG3	0.46	2.41	6	1
1:A:260:HIS:HE1	1:C:102:ALA:O	0.46	1.91	1	20
1:B:259:GLY:O	1:B:260:HIS:CE1	0.46	2.69	1	20
2:D:38:LYS:H	2:D:38:LYS:HE2	0.46	1.71	6	9
1:A:278:GLN:C	1:A:281:TRP:HZ3	0.46	2.18	1	20
1:B:224:VAL:HG13	1:B:315:GLY:CA	0.46	2.40	1	20
1:B:102:ALA:O	1:C:260:HIS:CE1	0.46	2.68	1	20
1:B:260:HIS:O	1:B:293:TYR:CD1	0.46	2.69	1	20
1:C:193:TYR:CE1	1:C:217:HIS:HE1	0.46	2.29	1	20
1:A:130:GLY:O	1:A:132:PHE:HD1	0.46	1.82	1	20
1:B:278:GLN:C	1:B:281:TRP:CZ3	0.46	2.92	1	20
1:C:49:LYS:HE2	1:C:60:HIS:NE2	0.46	2.24	1	20
1:C:203:TYR:CD2	2:D:9:ASN:O	0.46	2.69	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:304:VAL:CB	1:C:317:ALA:HA	0.46	2.40	1	20
2:D:70:GLN:HB2	2:D:74:TYR:OH	0.46	2.11	20	20
1:C:98:ASP:HA	1:C:107:GLY:O	0.45	2.11	1	20
1:B:255:HIS:CD2	1:B:255:HIS:C	0.45	2.93	1	20
1:B:307:ASN:OD1	1:B:310:GLU:HG3	0.45	2.11	1	20
1:C:130:GLY:O	1:C:132:PHE:HE1	0.45	1.88	1	20
1:C:204:GLU:CD	2:D:10:LYS:HB3	0.45	2.36	2	1
1:B:70:GLY:CA	1:B:134:TYR:OH	0.45	2.62	1	20
1:C:328:ASP:O	1:C:329:ASP:C	0.45	2.55	1	20
1:C:115:ASN:HD22	2:D:83:ALA:C	0.45	2.17	13	1
1:A:97:ILE:HG23	1:A:97:ILE:O	0.45	2.11	1	20
1:A:216:THR:OG1	1:A:217:HIS:ND1	0.45	2.45	1	20
1:A:228:THR:HB	1:A:319:HIS:CE1	0.45	2.47	1	20
1:B:274:PRO:O	1:B:275:ASP:O	0.45	2.35	1	20
1:C:174:LYS:NZ	1:C:176:TYR:OH	0.45	2.49	1	20
1:C:144:TRP:CB	1:C:203:TYR:HE1	0.45	2.24	3	3
2:D:81:HIS:CD2	2:D:84:MET:SD	0.45	3.06	16	1
1:B:64:PHE:CZ	1:B:150:MET:HE3	0.45	2.46	1	20
1:B:115:ASN:O	1:B:116:PRO:C	0.45	2.59	1	20
1:C:89:GLU:HA	2:D:109:LYS:HD3	0.45	1.88	8	2
1:C:265:TRP:CE2	1:C:274:PRO:HB3	0.45	2.46	1	20
1:A:279:GLU:HB2	1:C:100:HIS:HD1	0.45	1.72	9	20
1:B:39:VAL:HG12	1:B:41:PHE:CZ	0.45	2.46	1	20
1:B:104:GLY:O	1:C:331:MET:SD	0.45	2.74	1	20
1:B:301:TYR:N	1:B:301:TYR:HD1	0.45	2.10	1	20
1:C:233:MET:CG	1:C:320:PHE:CE2	0.45	3.00	1	20
1:A:81:LEU:C	1:A:81:LEU:HD23	0.45	2.37	1	20
1:A:134:TYR:CE2	1:A:152:GLY:C	0.45	2.94	1	20
1:A:308:LEU:HD13	1:C:142:VAL:CG1	0.45	2.38	1	20
1:B:140:GLY:C	1:B:141:MET:HG2	0.45	2.36	1	20
1:A:22:PRO:HG2	1:A:69:PRO:O	0.45	2.11	1	20
1:A:39:VAL:HG12	1:A:41:PHE:CZ	0.45	2.45	1	20
1:A:308:LEU:HB2	1:C:249:ASN:OD1	0.45	2.11	1	20
1:B:187:ARG:NH1	1:B:216:THR:CG2	0.45	2.80	1	20
1:B:114:ILE:HG22	1:C:337:PRO:HB3	0.45	1.88	1	20
1:C:41:PHE:O	1:C:83:LEU:HD12	0.45	2.11	1	20
1:C:135:HIS:ND1	1:C:135:HIS:C	0.45	2.74	5	20
1:C:157:LEU:CD2	1:C:162:LEU:HD21	0.45	2.42	1	20
1:A:318:ALA:C	1:A:319:HIS:CG	0.45	2.94	1	20
1:C:279:GLU:O	1:C:281:TRP:CZ3	0.45	2.69	1	20
2:D:9:ASN:OD1	2:D:37:ASP:HB3	0.45	2.08	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:203:TYR:CB	2:D:10:LYS:CG	0.45	2.91	6	1
2:D:109:LYS:HG3	2:D:110:ILE:N	0.45	2.22	10	1
1:A:35:GLY:N	1:A:37:LYS:NZ	0.44	2.65	1	20
1:C:94:MET:SD	1:C:113:GLU:HB3	0.44	2.51	17	1
1:A:160:GLU:O	1:A:163:HIS:HE1	0.44	1.96	1	20
1:A:196:TYR:CD1	1:A:196:TYR:N	0.44	2.85	1	20
1:B:133:VAL:HG11	1:B:248:ALA:CB	0.44	2.38	1	20
1:C:133:VAL:HG23	1:C:246:SER:HB2	0.44	1.87	1	20
1:C:204:GLU:HA	2:D:10:LYS:HG3	0.44	1.86	7	1
1:A:39:VAL:CG1	1:A:41:PHE:CZ	0.44	3.01	1	20
1:B:319:HIS:C	1:B:320:PHE:HD1	0.44	2.21	1	20
1:C:81:LEU:HB3	1:C:124:PHE:CE2	0.44	2.47	1	20
1:C:146:VAL:CG1	1:C:248:ALA:O	0.44	2.61	1	20
1:C:160:GLU:O	1:C:163:HIS:HE1	0.44	1.94	1	20
1:C:187:ARG:NH1	1:C:216:THR:HG22	0.44	2.28	1	20
1:C:307:ASN:HB3	1:C:310:GLU:CB	0.44	2.43	1	20
1:C:141:MET:CE	1:C:203:TYR:HE2	0.44	2.24	11	1
1:A:118:GLU:CA	1:B:338:SER:O	0.44	2.65	1	20
1:A:265:TRP:CE2	1:A:274:PRO:HB3	0.44	2.47	1	20
1:B:142:VAL:CG1	1:C:308:LEU:HD13	0.44	2.41	1	20
1:B:163:HIS:CD2	1:B:169:ALA:CA	0.44	3.00	1	20
1:B:303:TYR:C	1:B:304:VAL:HG12	0.44	2.34	1	20
2:D:110:ILE:HG23	2:D:111:VAL:N	0.44	2.27	7	3
1:A:54:ASP:OD2	2:D:38:LYS:HG3	0.44	2.13	12	2
1:A:80:TYR:CZ	1:A:125:LYS:HG3	0.44	2.48	1	20
1:A:253:ARG:NH1	1:A:307:ASN:HB2	0.44	2.28	1	20
1:B:80:TYR:OH	1:B:125:LYS:HE3	0.44	2.13	1	20
1:C:253:ARG:NH1	1:C:307:ASN:HD22	0.44	2.09	1	20
1:C:304:VAL:CG1	1:C:317:ALA:CA	0.44	2.94	1	20
2:D:41:ASN:OD1	2:D:41:ASN:C	0.44	2.61	17	20
1:A:77:GLN:O	1:A:78:ASP:HB2	0.44	2.11	1	20
1:B:39:VAL:CG1	1:B:41:PHE:CZ	0.44	3.01	1	20
1:B:64:PHE:CE2	1:B:150:MET:CG	0.44	3.01	1	20
1:B:137:ALA:HB1	1:B:142:VAL:HG22	0.44	1.89	1	20
1:B:143:PRO:HD3	1:C:312:PHE:CD2	0.44	2.48	1	20
1:C:180:GLU:OE2	1:C:218:VAL:CG1	0.44	2.66	1	20
1:C:264:VAL:HG22	1:C:291:ALA:CB	0.44	2.43	1	20
1:C:94:MET:HB3	2:D:83:ALA:HB3	0.44	1.87	7	1
1:A:180:GLU:OE2	1:A:218:VAL:CG1	0.44	2.66	1	20
1:A:338:SER:O	1:A:339:GLY:C	0.44	2.61	1	20
1:B:26:HIS:CE1	1:B:74:VAL:N	0.44	2.83	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:274:PRO:O	1:B:275:ASP:C	0.44	2.59	1	20
1:C:99:PHE:CE2	1:C:134:TYR:HB3	0.44	2.48	1	20
1:C:134:TYR:CE2	1:C:152:GLY:CA	0.44	3.01	1	20
1:B:274:PRO:C	1:B:275:ASP:O	0.43	2.58	1	20
1:C:72:LEU:HD12	1:C:153:ALA:C	0.43	2.34	1	20
1:A:130:GLY:O	1:A:132:PHE:HE1	0.43	1.87	1	20
1:A:278:GLN:C	1:A:281:TRP:CZ3	0.43	2.96	1	20
1:B:26:HIS:CE1	1:B:74:VAL:CB	0.43	2.99	1	20
1:B:216:THR:HB	1:B:217:HIS:CE1	0.43	2.47	1	20
1:B:304:VAL:HG23	1:B:305:ASN:O	0.43	2.12	1	20
1:C:95:HIS:CG	1:C:150:MET:HE1	0.43	2.48	1	20
1:C:260:HIS:ND1	1:C:260:HIS:N	0.43	2.66	1	20
1:C:262:ASP:O	1:C:276:VAL:HA	0.43	2.13	1	20
1:C:94:MET:CG	1:C:114:ILE:C	0.43	2.89	17	1
1:C:141:MET:HE2	2:D:16:MET:HG2	0.43	1.91	17	1
1:A:94:MET:CB	1:A:115:ASN:ND2	0.43	2.75	1	20
1:A:180:GLU:HB2	1:A:245:HIS:NE2	0.43	2.28	1	20
1:A:235:ALA:O	1:A:322:VAL:CA	0.43	2.65	1	20
1:A:303:TYR:C	1:A:304:VAL:HG13	0.43	2.38	1	20
1:A:308:LEU:HD12	1:C:146:VAL:HG21	0.43	1.87	1	20
1:C:80:TYR:CZ	1:C:125:LYS:HG3	0.43	2.49	1	20
1:C:86:ILE:HG12	1:C:119:LYS:HB2	0.43	1.90	1	20
2:D:109:LYS:HE3	2:D:113:GLU:CG	0.43	2.43	6	2
1:C:203:TYR:CB	2:D:15:ALA:HB2	0.43	2.42	8	1
1:C:203:TYR:N	2:D:10:LYS:HE2	0.43	2.29	11	1
1:A:216:THR:C	1:A:217:HIS:CG	0.43	2.96	1	20
1:B:187:ARG:HH11	1:B:216:THR:CG2	0.43	2.25	1	20
1:C:115:ASN:ND2	2:D:108:PRO:CG	0.43	2.77	10	1
1:C:216:THR:CB	1:C:217:HIS:ND1	0.43	2.82	1	20
1:C:233:MET:HB2	1:C:320:PHE:CE2	0.43	2.46	1	20
1:C:300:ILE:C	1:C:301:TYR:CD1	0.43	2.96	1	20
1:C:303:TYR:O	1:C:304:VAL:CG1	0.43	2.62	1	20
2:D:117:LYS:HG3	2:D:121:SER:HG	0.43	1.72	11	3
1:C:92:THR:HG22	2:D:109:LYS:CD	0.43	2.42	17	1
1:C:204:GLU:HG3	1:C:205:ASP:N	0.43	2.23	17	1
1:A:155:MET:HE1	1:A:175:ILE:CD1	0.43	2.43	1	20
1:A:236:ALA:O	1:A:237:VAL:C	0.43	2.61	1	20
1:C:230:ASP:N	1:C:230:ASP:OD1	0.43	2.51	1	20
1:C:201:ASP:HA	2:D:10:LYS:HE2	0.43	1.88	16	1
1:C:203:TYR:CD1	2:D:10:LYS:CG	0.43	3.01	20	1
1:A:227:LEU:HB2	1:A:318:ALA:CB	0.43	2.44	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:134:TYR:CE2	1:B:152:GLY:C	0.43	2.97	1	20
1:B:245:HIS:CD2	1:B:246:SER:N	0.43	2.87	1	20
1:C:25:VAL:HG12	1:C:26:HIS:N	0.43	2.29	1	20
1:C:144:TRP:CB	1:C:203:TYR:CE1	0.43	3.01	11	1
1:C:204:GLU:N	2:D:10:LYS:HE3	0.43	2.16	11	1
1:A:64:PHE:CE1	1:A:150:MET:CE	0.43	3.01	1	20
1:A:70:GLY:CA	1:A:134:TYR:OH	0.43	2.64	1	20
1:A:198:ALA:CB	1:A:199:PRO:CD	0.43	2.97	1	20
1:A:220:PHE:CZ	1:A:316:ALA:CB	0.43	2.97	1	20
1:A:277:ASP:O	1:C:269:LYS:HD2	0.43	2.13	1	20
1:C:14:ARG:HG3	1:C:38:VAL:HB	0.43	1.90	1	20
1:A:193:TYR:HH	1:A:217:HIS:CE1	0.43	2.31	1	20
1:A:217:HIS:ND1	1:A:217:HIS:N	0.43	2.67	1	20
1:B:130:GLY:O	1:B:132:PHE:HD1	0.43	1.92	1	20
1:B:130:GLY:O	1:B:132:PHE:HE1	0.43	1.89	1	20
1:C:45:ILE:HD11	1:C:64:PHE:HE1	0.43	1.74	1	20
1:C:318:ALA:C	1:C:319:HIS:CG	0.43	2.97	1	20
2:D:38:LYS:CE	2:D:38:LYS:H	0.43	2.26	18	2
1:C:203:TYR:CD1	2:D:10:LYS:HD3	0.43	2.48	20	1
1:A:95:HIS:CG	1:A:150:MET:HE1	0.43	2.49	1	20
1:A:305:ASN:ND2	1:A:310:GLU:OE1	0.43	2.51	1	20
2:D:79:THR:HB	2:D:80:PRO:HD3	0.43	1.91	10	20
1:C:116:PRO:CD	2:D:110:ILE:CG2	0.43	2.90	6	1
1:A:26:HIS:HE1	1:A:74:VAL:N	0.42	2.12	1	20
1:A:332:THR:O	1:A:332:THR:CG2	0.42	2.66	1	20
1:C:75:VAL:O	1:C:156:VAL:HA	0.42	2.13	1	20
1:C:164:ASP:OD1	1:C:164:ASP:C	0.42	2.62	1	20
1:C:304:VAL:HB	1:C:317:ALA:HA	0.42	1.90	3	20
1:B:86:ILE:HG12	1:B:119:LYS:CB	0.42	2.43	1	20
1:C:141:MET:CE	2:D:16:MET:CG	0.42	2.90	6	1
1:C:204:GLU:HA	2:D:10:LYS:HG2	0.42	1.84	11	1
1:A:174:LYS:CE	1:A:176:TYR:OH	0.42	2.68	1	20
1:B:17:VAL:HB	1:B:41:PHE:CZ	0.42	2.47	1	20
1:C:56:GLY:O	1:C:58:GLU:HG3	0.42	2.14	1	20
1:C:115:ASN:O	1:C:116:PRO:C	0.42	2.60	1	20
1:C:304:VAL:HG11	1:C:317:ALA:HB1	0.42	1.90	1	20
2:D:123:LYS:OXT	2:D:123:LYS:HG3	0.42	2.14	12	11
1:C:92:THR:HA	2:D:110:ILE:CD1	0.42	2.45	13	1
1:C:92:THR:HA	2:D:109:LYS:HB3	0.42	1.89	17	1
1:A:115:ASN:O	1:A:116:PRO:C	0.42	2.61	1	20
1:A:303:TYR:O	1:A:303:TYR:CD1	0.42	2.72	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:53:ASP:OD1	1:B:53:ASP:C	0.42	2.62	1	20
1:B:146:VAL:CG2	1:C:308:LEU:CD1	0.42	2.89	1	20
1:B:233:MET:CB	1:B:320:PHE:CZ	0.42	3.02	1	20
1:C:134:TYR:CE2	1:C:152:GLY:HA3	0.42	2.49	1	20
1:C:200:GLY:HA3	2:D:15:ALA:N	0.42	2.30	16	1
1:A:328:ASP:O	1:A:329:ASP:C	0.42	2.62	1	20
1:B:84:THR:OG1	1:B:121:ILE:HG12	0.42	2.14	1	20
1:B:230:ASP:OD1	1:B:231:LYS:N	0.42	2.52	1	20
1:C:267:THR:O	1:C:269:LYS:NZ	0.42	2.38	1	20
1:C:92:THR:OG1	2:D:110:ILE:HD11	0.42	2.05	4	1
1:C:141:MET:HE2	1:C:203:TYR:CD1	0.42	2.48	5	1
1:C:141:MET:SD	1:C:203:TYR:HE2	0.42	2.38	11	1
1:A:26:HIS:CE1	1:A:74:VAL:CB	0.42	3.00	1	20
1:A:163:HIS:CD2	1:A:169:ALA:HA	0.42	2.49	1	20
1:B:95:HIS:CG	1:B:150:MET:HE1	0.42	2.50	1	20
1:A:34:GLY:HA3	1:A:37:LYS:NZ	0.42	2.29	1	20
1:A:104:GLY:O	1:A:105:ALA:CB	0.42	2.68	1	20
1:A:228:THR:HG22	1:A:319:HIS:ND1	0.42	2.29	1	20
1:A:248:ALA:O	1:B:306:HIS:CE1	0.42	2.72	1	20
1:B:142:VAL:HG11	1:C:312:PHE:CE2	0.42	2.49	1	20
1:B:320:PHE:N	1:B:320:PHE:HD1	0.42	2.12	1	20
1:C:36:PRO:O	1:C:37:LYS:HG2	0.42	2.15	1	20
1:C:45:ILE:CD1	1:C:64:PHE:CE1	0.42	3.02	1	20
1:A:277:ASP:O	1:C:269:LYS:CD	0.42	2.67	1	20
1:B:162:LEU:HD21	1:B:270:PHE:CE2	0.42	2.49	1	20
1:B:206:THR:O	1:B:207:VAL:C	0.42	2.62	1	20
1:B:227:LEU:HB2	1:B:318:ALA:CB	0.42	2.44	1	20
1:B:292:PHE:C	1:B:292:PHE:HD1	0.42	2.21	1	20
1:B:157:LEU:CD2	1:B:162:LEU:HD11	0.42	2.45	1	20
1:C:221:ASN:HB3	1:C:226:ALA:CB	0.42	2.45	1	20
1:C:245:HIS:CD2	1:C:246:SER:N	0.42	2.88	1	20
2:D:16:MET:HG3	2:D:81:HIS:CG	0.42	2.50	2	1
2:D:10:LYS:CD	2:D:11:GLY:H	0.42	2.19	3	1
1:C:115:ASN:HD22	2:D:108:PRO:CB	0.42	2.28	10	1
1:A:120:THR:OG1	1:A:121:ILE:N	0.42	2.53	1	20
1:B:233:MET:CB	1:B:320:PHE:CD2	0.42	3.03	1	20
1:C:86:ILE:HG12	1:C:119:LYS:CB	0.42	2.45	1	20
1:C:98:ASP:OD1	1:C:107:GLY:HA3	0.42	2.14	1	20
1:C:163:HIS:CD2	1:C:169:ALA:CA	0.42	3.03	1	20
1:C:236:ALA:O	1:C:237:VAL:C	0.42	2.61	1	20
1:C:204:GLU:N	2:D:10:LYS:CD	0.42	2.82	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:D:84:MET:HE2	2:D:84:MET:HB3	0.42	1.74	11	1
1:C:115:ASN:OD1	2:D:108:PRO:HB3	0.42	2.14	13	1
1:A:220:PHE:HZ	1:A:316:ALA:HB1	0.41	1.71	1	20
1:A:312:PHE:CD2	1:C:143:PRO:HD3	0.41	2.49	1	20
1:B:98:ASP:OD1	1:B:107:GLY:HA3	0.41	2.15	1	20
1:C:137:ALA:HB1	1:C:142:VAL:HG22	0.41	1.91	1	20
1:C:274:PRO:O	1:C:275:ASP:C	0.41	2.62	1	20
1:C:94:MET:HE1	1:C:95:HIS:CA	0.41	2.40	7	1
2:D:94:ASP:N	2:D:94:ASP:OD1	0.41	2.47	18	1
1:A:35:GLY:O	1:A:37:LYS:HG3	0.41	2.15	1	20
1:A:174:LYS:CG	1:A:241:VAL:CG2	0.41	2.86	1	20
1:A:216:THR:CB	1:A:217:HIS:ND1	0.41	2.83	1	20
1:B:216:THR:CB	1:B:217:HIS:ND1	0.41	2.83	1	20
1:C:268:GLY:C	1:C:269:LYS:HD3	0.41	2.39	1	20
1:A:80:TYR:CE2	1:A:125:LYS:HG3	0.41	2.50	1	20
1:A:195:LYS:C	1:A:196:TYR:CD1	0.41	2.99	1	20
1:B:94:MET:SD	1:B:94:MET:O	0.41	2.78	1	20
1:B:97:ILE:HG23	1:B:97:ILE:O	0.41	2.14	1	20
1:C:85:LEU:C	1:C:86:ILE:HG13	0.41	2.40	1	20
1:C:305:ASN:OD1	1:C:305:ASN:C	0.41	2.63	1	20
2:D:110:ILE:HG22	2:D:111:VAL:N	0.41	2.30	13	1
1:C:174:LYS:CE	1:C:176:TYR:OH	0.41	2.69	1	20
1:A:53:ASP:OD2	1:A:55:ALA:HB3	0.41	2.16	1	20
1:A:278:GLN:NE2	1:C:269:LYS:CG	0.41	2.84	1	20
1:B:30:GLN:CD	1:B:171:THR:HG23	0.41	2.40	1	20
1:C:54:ASP:OD1	1:C:54:ASP:C	0.41	2.64	1	20
1:C:141:MET:HE2	1:C:144:TRP:HE3	0.41	1.76	10	1
1:A:260:HIS:O	1:A:293:TYR:CD1	0.41	2.73	1	20
1:B:227:LEU:HB2	1:B:318:ALA:HB1	0.41	1.91	1	20
1:B:307:ASN:HB3	1:B:310:GLU:CB	0.41	2.45	1	20
2:D:41:ASN:ND2	2:D:79:THR:OG1	0.41	2.52	14	7
1:C:141:MET:HB3	1:C:203:TYR:OH	0.41	2.15	20	1
1:B:221:ASN:HB3	1:B:226:ALA:HB1	0.41	1.93	1	20
1:C:92:THR:CA	2:D:109:LYS:HG3	0.41	2.42	17	1
1:A:57:THR:OG1	1:A:193:TYR:CD2	0.41	2.73	1	20
1:C:240:LYS:HG2	1:C:240:LYS:H	0.41	1.52	1	20
1:C:94:MET:SD	2:D:83:ALA:CB	0.41	3.08	4	1
2:D:10:LYS:HD3	2:D:11:GLY:CA	0.41	2.46	13	1
1:A:52:ILE:O	1:A:52:ILE:HG13	0.41	2.15	1	20
1:B:64:PHE:CE2	1:B:150:MET:HG2	0.41	2.51	1	20
1:B:120:THR:OG1	1:B:121:ILE:N	0.41	2.54	1	20

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:279:GLU:O	1:B:281:TRP:CZ3	0.41	2.73	1	20
1:C:35:GLY:C	1:C:159:ARG:HH21	0.41	2.23	1	20
1:C:174:LYS:HB2	1:C:241:VAL:HG22	0.41	1.91	1	20
1:C:204:GLU:CB	2:D:10:LYS:HE3	0.41	2.45	12	1
1:A:69:PRO:HG2	1:A:179:GLY:HA3	0.41	1.91	1	20
1:B:17:VAL:HG11	1:B:41:PHE:CE2	0.41	2.48	1	20
1:B:26:HIS:CE1	1:B:74:VAL:H	0.41	2.33	1	20
1:B:303:TYR:C	1:B:304:VAL:HG13	0.41	2.39	1	20
1:C:172:TYR:CD1	1:C:172:TYR:O	0.41	2.74	1	20
1:C:227:LEU:HB2	1:C:318:ALA:CB	0.41	2.45	1	20
1:A:268:GLY:O	1:A:269:LYS:HD3	0.40	2.16	1	20
1:B:216:THR:OG1	1:B:217:HIS:ND1	0.40	2.53	1	20
1:C:216:THR:O	1:C:217:HIS:CG	0.40	2.74	1	20
1:C:307:ASN:HB3	1:C:310:GLU:HB2	0.40	1.93	1	20
1:A:142:VAL:N	1:A:143:PRO:HD2	0.40	2.31	1	20
1:A:216:THR:C	1:A:217:HIS:HD1	0.40	2.21	1	20
1:A:292:PHE:C	1:A:292:PHE:HD1	0.40	2.23	1	20
1:B:233:MET:HE3	1:B:320:PHE:CD1	0.40	2.51	1	20
1:C:203:TYR:CZ	2:D:15:ALA:HB1	0.40	2.51	18	1
1:C:203:TYR:CB	2:D:10:LYS:HD3	0.40	2.46	20	1
1:B:304:VAL:HB	1:B:317:ALA:HA	0.40	1.93	1	20
1:C:172:TYR:HA	1:C:240:LYS:HG3	0.40	1.92	1	20
1:C:259:GLY:O	1:C:260:HIS:CE1	0.40	2.74	1	20
1:A:228:THR:CB	1:A:319:HIS:CE1	0.40	3.05	1	20
1:B:134:TYR:CE2	1:B:152:GLY:CA	0.40	3.05	1	20
1:C:217:HIS:ND1	1:C:217:HIS:N	0.40	2.68	1	20
1:C:307:ASN:CB	1:C:310:GLU:HG3	0.40	2.44	1	20
2:D:109:LYS:HE3	2:D:113:GLU:HG3	0.40	1.93	6	1
1:A:36:PRO:C	1:A:37:LYS:CG	0.40	2.95	1	20
1:A:232:ALA:O	1:A:233:MET:C	0.40	2.64	1	20
1:B:221:ASN:OD1	1:B:227:LEU:HD21	0.40	2.15	1	20
1:B:304:VAL:HG12	1:B:317:ALA:CA	0.40	2.44	1	20
1:C:95:HIS:O	1:C:96:ASN:HB3	0.40	2.17	1	20
1:C:253:ARG:NH1	1:C:307:ASN:HB2	0.40	2.31	1	20

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	333/341 (98%)	300±0 (90±0%)	25±0 (8±0%)	8±0 (2±0%)	7	44
1	B	334/341 (98%)	302±0 (90±0%)	24±0 (7±0%)	8±0 (2±0%)	7	44
1	C	334/341 (98%)	301±0 (90±0%)	27±0 (8±0%)	6±0 (2±0%)	9	52
2	D	121/123 (98%)	114±0 (94±0%)	6±0 (5±0%)	1±0 (1±0%)	18	68
All	All	22440/22920 (98%)	20340 (91%)	1640 (7%)	460 (2%)	8	49

All 23 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	26	HIS	20
1	A	60	HIS	20
1	A	70	GLY	20
1	A	78	ASP	20
1	A	96	ASN	20
1	A	233	MET	20
1	A	275	ASP	20
1	A	307	ASN	20
1	B	70	GLY	20
1	B	78	ASP	20
1	B	96	ASN	20
1	B	233	MET	20
1	B	249	ASN	20
1	B	250	ARG	20
1	B	275	ASP	20
1	B	307	ASN	20
1	C	70	GLY	20
1	C	78	ASP	20
1	C	164	ASP	20
1	C	249	ASN	20
1	C	250	ARG	20
1	C	307	ASN	20
2	D	122	ALA	20

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	264/268 (99%)	247±0 (94±0%)	17±0 (6±0%)	18	67
1	B	264/268 (99%)	244±0 (92±0%)	20±0 (8±0%)	14	62
1	C	264/268 (99%)	243±1 (92±0%)	21±1 (8±0%)	13	60
2	D	102/102 (100%)	89±1 (87±1%)	13±1 (13±1%)	6	47
All	All	17880/18120 (99%)	16455 (92%)	1425 (8%)	13	60

All 79 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	14	ARG	20
1	A	39	VAL	20
1	A	78	ASP	20
1	A	83	LEU	20
1	A	98	ASP	20
1	A	122	LEU	20
1	A	133	VAL	20
1	A	159	ARG	20
1	A	175	ILE	20
1	A	221	ASN	20
1	A	233	MET	20
1	A	240	LYS	20
1	A	253	ARG	20
1	A	281	TRP	20
1	A	300	ILE	20
1	A	304	VAL	20
1	A	332	THR	20
1	B	14	ARG	20
1	B	39	VAL	20
1	B	83	LEU	20
1	B	98	ASP	20
1	B	122	LEU	20
1	B	133	VAL	20
1	B	159	ARG	20
1	B	168	LYS	20
1	B	174	LYS	20
1	B	175	ILE	20
1	B	187	ARG	20
1	B	211	ARG	20
1	B	221	ASN	20

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Mol	Chain	Res	Type	Models (Total)
1	B	233	MET	20
1	B	240	LYS	20
1	B	247	GLN	20
1	B	250	ARG	20
1	B	253	ARG	20
1	B	281	TRP	20
1	B	304	VAL	20
1	C	39	VAL	20
1	C	48	LYS	20
1	C	75	VAL	20
1	C	83	LEU	20
1	C	98	ASP	20
1	C	122	LEU	20
1	C	133	VAL	20
1	C	159	ARG	20
1	C	166	LYS	20
1	C	187	ARG	20
1	C	211	ARG	20
1	C	221	ASN	20
1	C	233	MET	20
1	C	250	ARG	20
1	C	253	ARG	20
1	C	281	TRP	20
1	C	292	PHE	20
1	C	304	VAL	20
1	C	332	THR	20
2	D	7	MET	20
2	D	38	LYS	20
2	D	46	LYS	20
2	D	55	LYS	20
2	D	59	LYS	20
2	D	87	ILE	20
2	D	101	GLN	20
2	D	114	ARG	20
2	D	123	LYS	20
2	D	1	GLU	18
2	D	110	ILE	18
2	D	10	LYS	17
1	C	115	ASN	15
2	D	109	LYS	13
2	D	16	MET	11
1	C	94	MET	10

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Mol	Chain	Res	Type	Models (Total)
1	C	204	GLU	7
1	C	89	GLU	5
2	D	9	ASN	3
1	C	92	THR	3
1	C	141	MET	2
2	D	84	MET	2
1	C	203	TYR	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 16 are monoatomic - leaving 0 for Mogul analysis.

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