



Full wwPDB NMR Structure Validation Report ⓘ

Mar 15, 2021 – 10:45 AM EDT

PDB ID : 6WA1
Title : Dimeric form of the trans-stabilized Hemolysin II C-terminal domain
Authors : Kaplan, A.R.; Alexandrescu, A.T.
Deposited on : 2020-03-24

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
ShiftChecker : 2.17.1
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.17.1

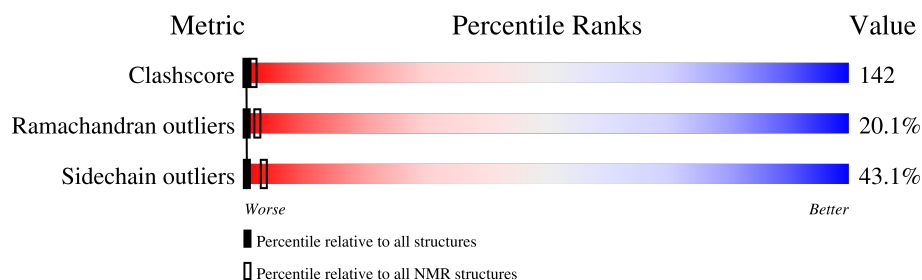
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 19%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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

Mol	Chain	Length	Quality of chain
1	A	94	
1	B	94	

2 Ensemble composition and analysis

This entry contains 25 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:10-A:94, B:10-B:94 (170)	1.27	1

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

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

The models can be grouped into 4 clusters. No single-model clusters were found.

Cluster number	Models
1	4, 5, 6, 7, 15, 19, 20, 22, 24
2	3, 8, 9, 12, 14, 16, 17, 23
3	1, 2, 10, 11
4	13, 18, 21, 25

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2930 atoms, of which 1464 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Hemolysin II.

Mol	Chain	Residues	Atoms						Trace
1	A	94	Total	C	H	N	O	S	0
			1465	454	732	126	150	3	
1	B	94	Total	C	H	N	O	S	0
			1465	454	732	126	150	3	

There are 2 discrepancies between the modelled and reference sequences:

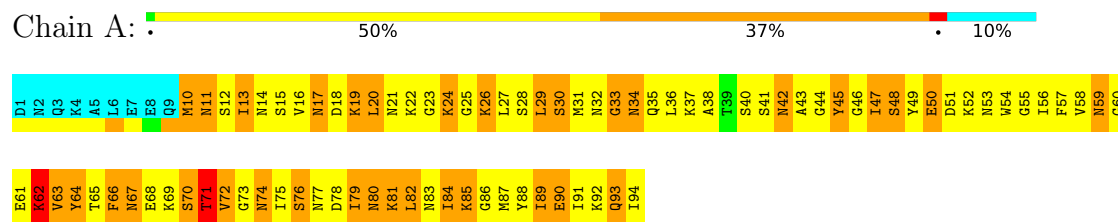
Chain	Residue	Modelled	Actual	Comment	Reference
A	87	MET	PRO	engineered mutation	UNP Q81AN8
B	87	MET	PRO	engineered mutation	UNP Q81AN8

4 Residue-property plots

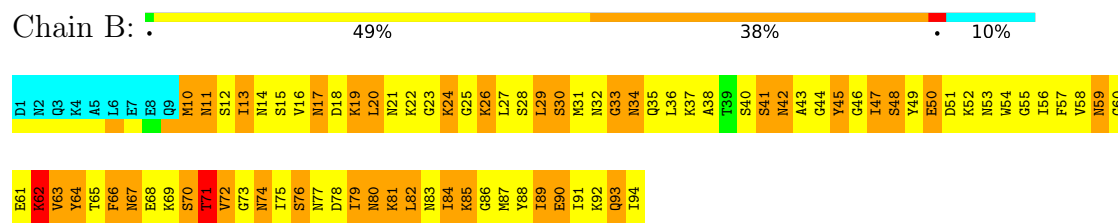
4.1 Average score per residue in the NMR ensemble

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

• Molecule 1: Hemolysin II



• Molecule 1: Hemolysin II

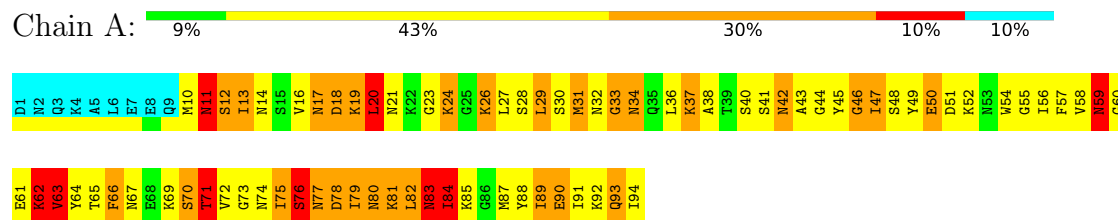


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

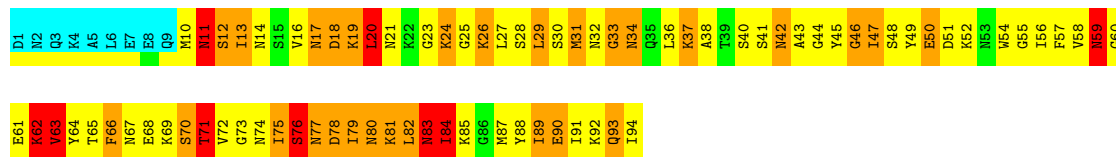
4.2.1 Score per residue for model 1 (medoid)

• Molecule 1: Hemolysin II



- Molecule 1: Hemolysin II

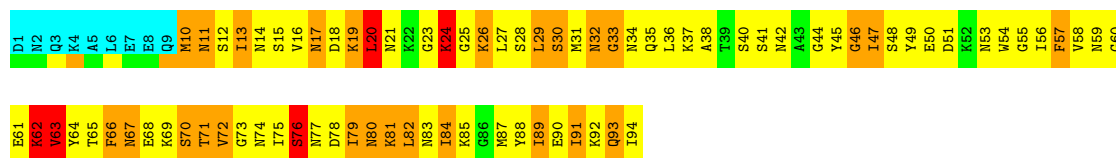
Chain B: 



4.2.2 Score per residue for model 2

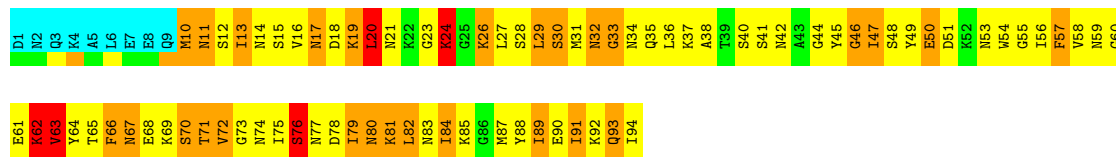
- Molecule 1: Hemolysin II

Chain A: 



- Molecule 1: Hemolysin II

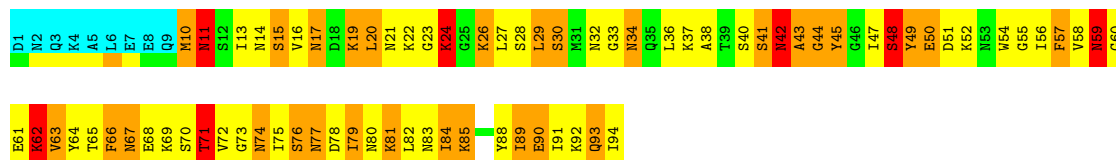
Chain B: 



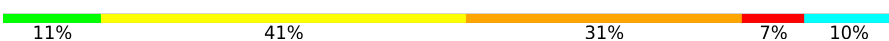
4.2.3 Score per residue for model 3

- Molecule 1: Hemolysin II

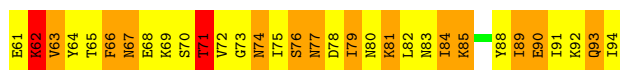
Chain A: 



- Molecule 1: Hemolysin II

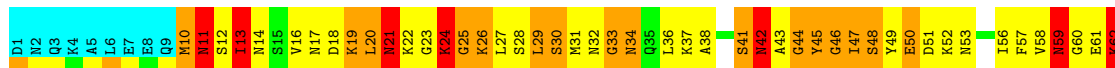
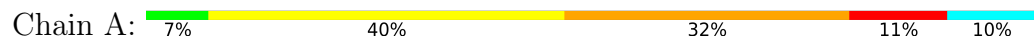
Chain B: 



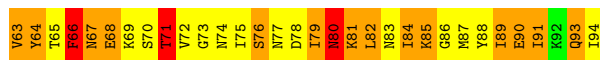
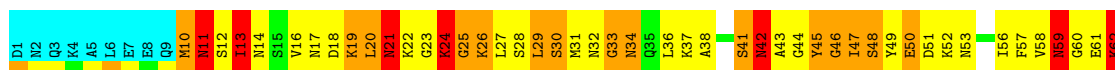


4.2.4 Score per residue for model 4

- Molecule 1: Hemolysin II

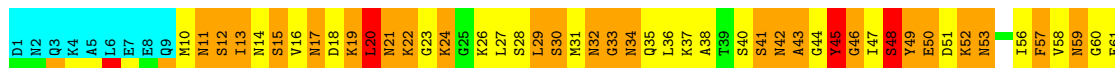


- Molecule 1: Hemolysin II

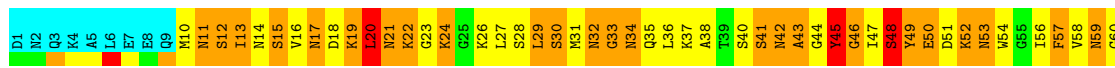


4.2.5 Score per residue for model 5

- Molecule 1: Hemolysin II

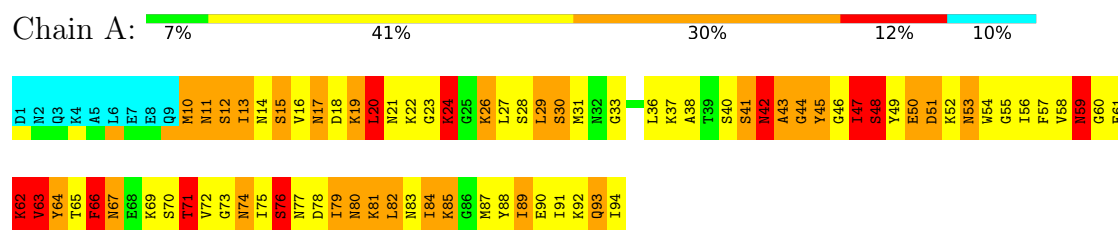


- Molecule 1: Hemolysin II



4.2.6 Score per residue for model 6

• Molecule 1: Hemolysin II

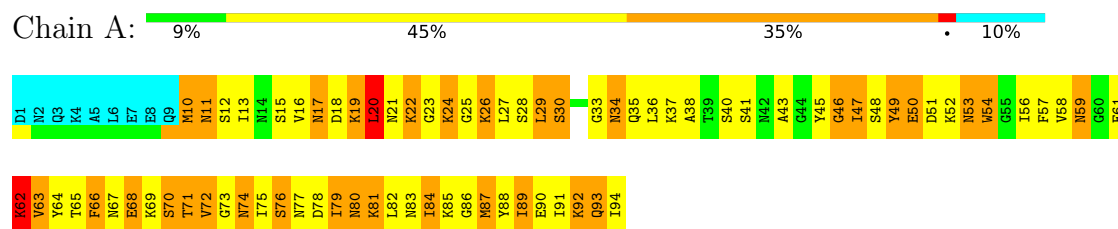


• Molecule 1: Hemolysin II

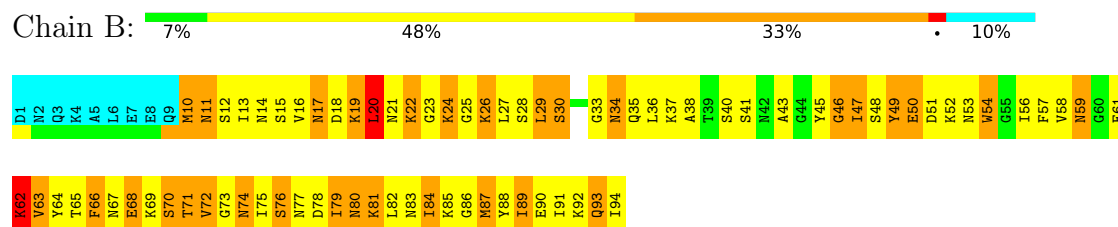


4.2.7 Score per residue for model 7

• Molecule 1: Hemolysin II



• Molecule 1: Hemolysin II



4.2.8 Score per residue for model 8

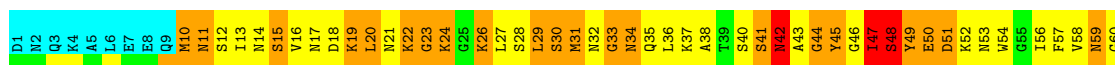
• Molecule 1: Hemolysin II





• Molecule 1: Hemolysin II

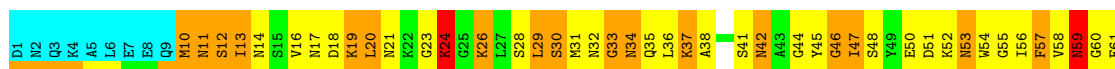
Chain B: . 40% 39% 6% 10%



4.2.9 Score per residue for model 9

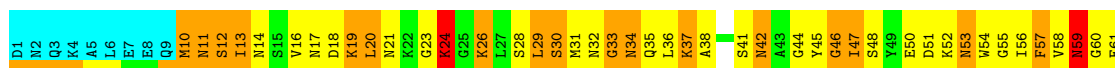
• Molecule 1: Hemolysin II

Chain A: 10% 43% 34% . 10%



• Molecule 1: Hemolysin II

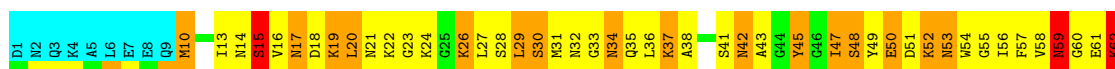
Chain B: 10% 44% 33% . 10%



4.2.10 Score per residue for model 10

• Molecule 1: Hemolysin II

Chain A: 11% 43% 29% 9% 10%

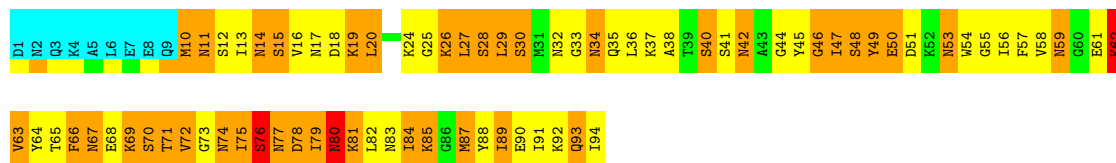


• Molecule 1: Hemolysin II

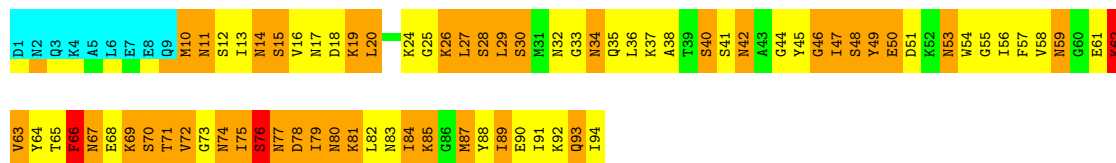
Chain B: 

4.2.11 Score per residue for model 11

• Molecule 1: Hemolysin II


Chain A: 

• Molecule 1: Hemolysin II

Chain B: 

4.2.12 Score per residue for model 12

• Molecule 1: Hemolysin II

Chain A: 

• Molecule 1: Hemolysin II

Chain B: 



4.2.13 Score per residue for model 13

- Molecule 1: Hemolysin II

Chain A: 6% 36% 40% 7% 10%



- Molecule 1: Hemolysin II

Chain B: 7% 35% 40% 7% 10%



4.2.14 Score per residue for model 14

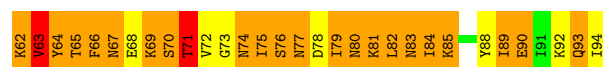
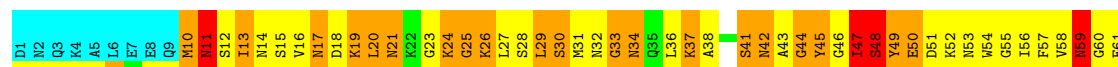
- Molecule 1: Hemolysin II

Chain A: 7% 32% 45% 6% 10%



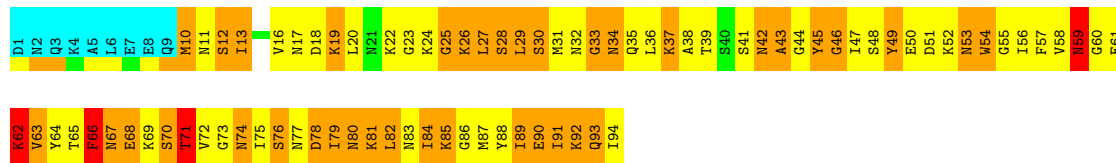
- Molecule 1: Hemolysin II

Chain B: 7% 33% 44% 6% 10%

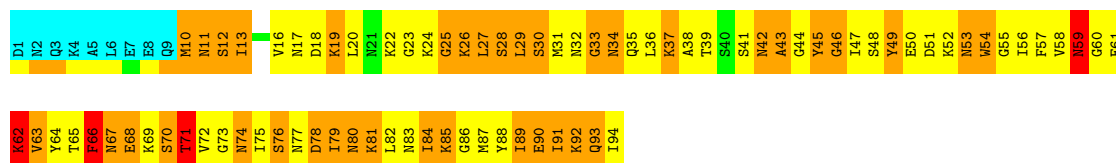


4.2.15 Score per residue for model 15

• Molecule 1: Hemolysin II

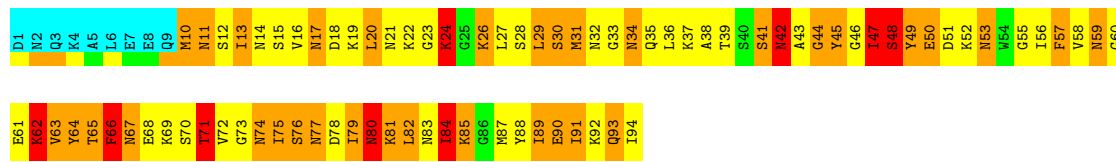
Chain A: 

• Molecule 1: Hemolysin II

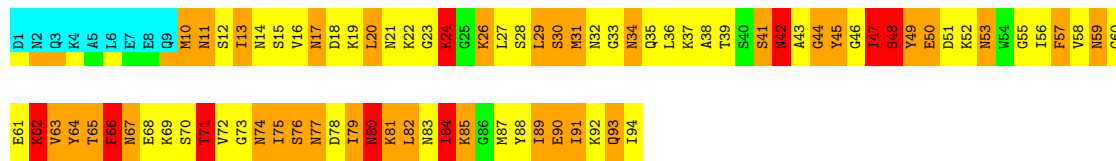

Chain B: 

4.2.16 Score per residue for model 16

• Molecule 1: Hemolysin II

Chain A: 

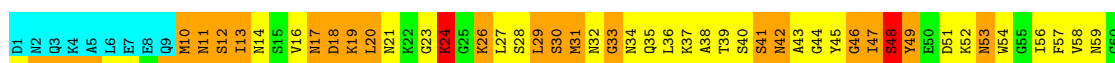
• Molecule 1: Hemolysin II

Chain B: 

4.2.17 Score per residue for model 17

• Molecule 1: Hemolysin II

Chain A: 



• Molecule 1: Hemolysin II

Chain B: 7% 45% 34% 10%



4.2.18 Score per residue for model 18

• Molecule 1: Hemolysin II

Chain A: 5% 37% 40% 7% 10%



• Molecule 1: Hemolysin II

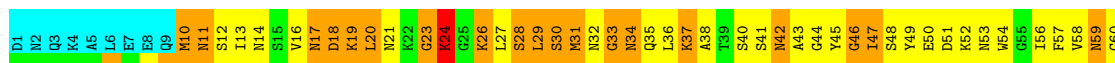
Chain B: 5% 37% 40% 7% 10%



4.2.19 Score per residue for model 19

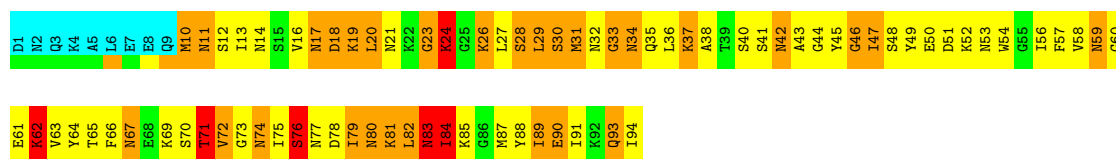
• Molecule 1: Hemolysin II

Chain A: 9% 45% 31% 6% 10%



• Molecule 1: Hemolysin II

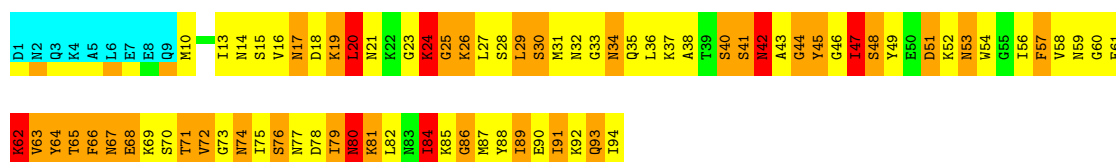
Chain B: 



4.2.20 Score per residue for model 20

- Molecule 1: Hemolysin II

Chain A: 



- Molecule 1: Hemolysin II

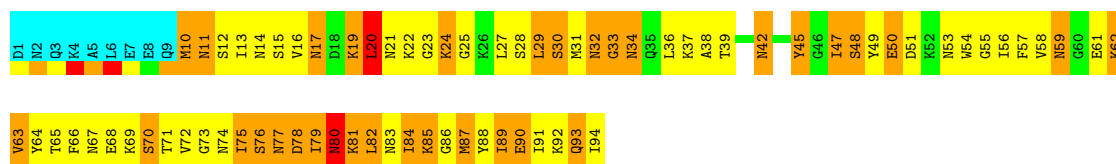
Chain B: 



4.2.21 Score per residue for model 21

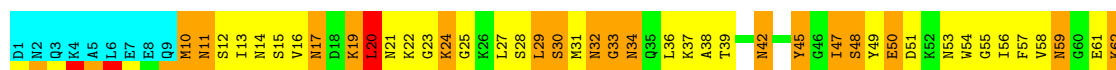
- Molecule 1: Hemolysin II

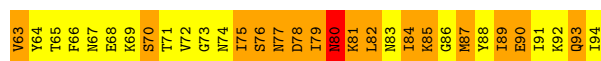
Chain A: 



- Molecule 1: Hemolysin II

Chain B: 





4.2.22 Score per residue for model 22

• Molecule 1: Hemolysin II



• Molecule 1: Hemolysin II

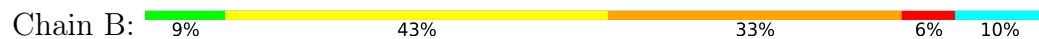


4.2.23 Score per residue for model 23

• Molecule 1: Hemolysin II



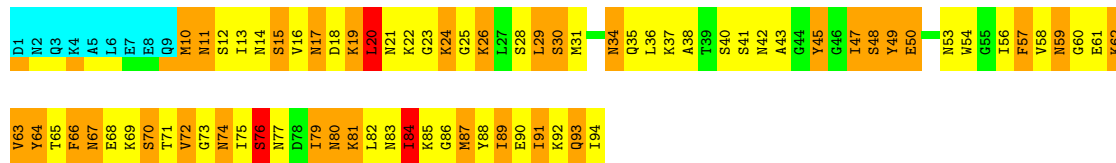
• Molecule 1: Hemolysin II



4.2.24 Score per residue for model 24

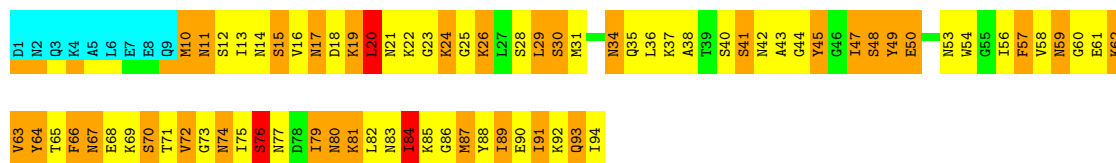
• Molecule 1: Hemolysin II

Chain A: 11% 43% 34% 10%



• Molecule 1: Hemolysin II

Chain B: 10% 43% 35% 10%



4.2.25 Score per residue for model 25

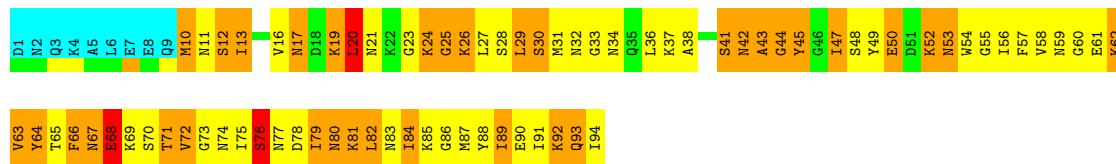
• Molecule 1: Hemolysin II

Chain A: 10% 41% 36% 10%



• Molecule 1: Hemolysin II

Chain B: 10% 41% 36% 10%



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 25 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

Software name	Classification	Version
TALOS	geometry optimization	TALOS-N
X-PLOR NIH	structure calculation	
X-PLOR NIH	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	424
Number of shifts mapped to atoms	424
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	19%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.67±0.01	0±0/666 (0.0± 0.0%)	0.94±0.01	1±1/889 (0.1± 0.1%)
1	B	0.67±0.01	0±0/666 (0.0± 0.0%)	0.94±0.01	1±1/889 (0.1± 0.1%)
All	All	0.67	0/33300 (0.0%)	0.94	40/44450 (0.1%)

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	B	64	TYR	CB-CG-CD2	-5.86	117.49	121.00	13	7
1	A	64	TYR	CB-CG-CD1	-5.85	117.49	121.00	16	6
1	B	64	TYR	CB-CG-CD1	-5.79	117.52	121.00	16	6
1	A	64	TYR	CB-CG-CD2	-5.79	117.53	121.00	13	7
1	A	66	PHE	CB-CG-CD2	-5.58	116.90	120.80	15	4
1	B	66	PHE	CB-CG-CD2	-5.57	116.91	120.80	15	6
1	B	66	PHE	CB-CG-CD1	-5.36	117.05	120.80	22	2
1	A	66	PHE	CB-CG-CD1	-5.29	117.10	120.80	22	2

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	659	663	663	195±16

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Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	B	659	663	663	196±16
All	All	32950	33150	33150	9384

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 142.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:ASN:HD21	1:A:29:LEU:HD23	1.11	1.02	10	17
1:A:29:LEU:HD22	1:A:29:LEU:H	1.11	1.04	10	25
1:B:29:LEU:H	1:B:29:LEU:HD22	1.09	1.07	22	25
1:B:17:ASN:HD21	1:B:29:LEU:HD23	1.08	1.02	10	17
1:B:17:ASN:ND2	1:B:29:LEU:HD23	1.04	1.67	10	20
1:A:17:ASN:ND2	1:A:29:LEU:HD23	1.03	1.67	10	20
1:B:47:ILE:HD12	1:B:47:ILE:H	0.99	1.12	20	16
1:B:89:ILE:HD12	1:B:89:ILE:H	0.99	1.14	18	25
1:A:47:ILE:HD12	1:A:47:ILE:H	0.98	1.12	20	15
1:A:89:ILE:H	1:A:89:ILE:HD12	0.97	1.14	18	24
1:B:13:ILE:HD13	1:B:13:ILE:N	0.96	1.73	1	12
1:A:13:ILE:HD13	1:A:13:ILE:N	0.96	1.73	1	12
1:B:56:ILE:O	1:B:63:VAL:HG12	0.95	1.62	15	9
1:B:84:ILE:HG22	1:B:85:LYS:H	0.95	1.20	11	13
1:B:90:GLU:O	1:B:91:ILE:HD13	0.94	1.62	3	11
1:A:82:LEU:O	1:A:82:LEU:HD22	0.94	1.61	23	1
1:B:29:LEU:N	1:B:29:LEU:HD13	0.94	1.78	11	25
1:A:29:LEU:HD13	1:A:29:LEU:N	0.94	1.78	11	7
1:B:70:SER:OG	1:B:75:ILE:HD11	0.94	1.62	11	25
1:A:70:SER:OG	1:A:75:ILE:HD11	0.93	1.62	11	25
1:B:82:LEU:HD22	1:B:82:LEU:O	0.93	1.61	23	1
1:B:82:LEU:HD13	1:B:82:LEU:C	0.93	1.83	23	1
1:A:56:ILE:HG23	1:B:91:ILE:HD12	0.93	1.37	10	13
1:A:91:ILE:HD12	1:B:56:ILE:HG23	0.93	1.38	10	13
1:A:84:ILE:HG22	1:A:85:LYS:H	0.93	1.23	5	13
1:A:90:GLU:O	1:A:91:ILE:HD13	0.93	1.62	3	11
1:A:56:ILE:O	1:A:63:VAL:HG12	0.93	1.62	15	10
1:B:47:ILE:HD12	1:B:47:ILE:N	0.93	1.78	20	10
1:B:24:LYS:HZ2	1:B:48:SER:CB	0.93	1.77	14	1
1:A:58:VAL:HG22	1:A:59:ASN:OD1	0.92	1.64	21	4
1:A:47:ILE:N	1:A:47:ILE:HD12	0.92	1.79	3	3
1:A:47:ILE:HD12	1:A:47:ILE:N	0.92	1.78	20	7
1:B:12:SER:O	1:B:16:VAL:HG23	0.92	1.65	18	9

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:LEU:HD22	1:A:29:LEU:N	0.92	1.80	18	23
1:A:82:LEU:HD13	1:A:82:LEU:C	0.91	1.83	23	1
1:B:29:LEU:HD22	1:B:29:LEU:N	0.91	1.80	18	22
1:A:12:SER:O	1:A:16:VAL:HG23	0.91	1.64	18	9
1:B:89:ILE:HD12	1:B:89:ILE:N	0.90	1.81	18	25
1:A:64:TYR:CZ	1:A:66:PHE:CD1	0.90	2.60	21	13
1:B:64:TYR:CZ	1:B:66:PHE:CD1	0.90	2.60	21	13
1:A:47:ILE:O	1:A:49:TYR:N	0.90	2.05	8	12
1:B:47:ILE:O	1:B:49:TYR:N	0.90	2.05	8	12
1:A:89:ILE:HD12	1:A:89:ILE:N	0.90	1.81	18	24
1:B:58:VAL:HG22	1:B:59:ASN:OD1	0.90	1.64	21	4
1:A:47:ILE:HD13	1:A:47:ILE:N	0.89	1.83	4	2
1:B:10:MET:O	1:B:12:SER:N	0.89	2.05	7	20
1:B:47:ILE:N	1:B:47:ILE:HD13	0.89	1.83	4	5
1:A:10:MET:O	1:A:12:SER:N	0.88	2.05	7	20
1:B:44:GLY:O	1:B:47:ILE:HD11	0.88	1.69	9	7
1:A:44:GLY:O	1:A:47:ILE:HD11	0.88	1.69	9	7
1:B:64:TYR:CE1	1:B:66:PHE:CE1	0.88	2.62	18	3
1:A:40:SER:OG	1:A:43:ALA:HB2	0.88	1.69	6	2
1:B:64:TYR:CE1	1:B:66:PHE:CE2	0.88	2.62	10	6
1:A:64:TYR:CE1	1:A:66:PHE:CE2	0.88	2.62	10	6
1:A:64:TYR:CE1	1:A:66:PHE:CE1	0.87	2.62	18	3
1:B:40:SER:OG	1:B:43:ALA:HB2	0.87	1.69	6	2
1:A:24:LYS:HZ2	1:A:48:SER:CB	0.87	1.83	14	1
1:A:56:ILE:HG23	1:B:91:ILE:HG23	0.87	1.46	23	15
1:A:36:LEU:HD23	1:A:80:ASN:HD21	0.86	1.28	13	2
1:B:64:TYR:CZ	1:B:66:PHE:CD2	0.86	2.63	10	12
1:A:64:TYR:CE2	1:A:66:PHE:CE2	0.86	2.63	9	6
1:B:64:TYR:CE2	1:B:66:PHE:CE2	0.86	2.63	9	6
1:A:64:TYR:CZ	1:A:66:PHE:CD2	0.86	2.63	10	12
1:B:36:LEU:HD23	1:B:80:ASN:HD21	0.86	1.28	13	2
1:A:91:ILE:HG23	1:B:56:ILE:HG23	0.86	1.45	23	15
1:B:56:ILE:HG22	1:B:63:VAL:CG1	0.83	2.03	18	16
1:B:93:GLN:CD	1:B:93:GLN:H	0.83	1.77	20	11
1:A:45:TYR:O	1:A:47:ILE:N	0.83	2.11	18	6
1:B:45:TYR:O	1:B:47:ILE:N	0.83	2.11	18	6
1:B:41:SER:O	1:B:43:ALA:N	0.83	2.12	4	10
1:B:56:ILE:HD11	1:B:66:PHE:CE1	0.83	2.09	1	13
1:B:42:ASN:ND2	1:B:45:TYR:CD2	0.83	2.47	17	1
1:A:56:ILE:HG22	1:A:63:VAL:CG1	0.83	2.03	18	16
1:A:42:ASN:ND2	1:A:45:TYR:CD2	0.82	2.47	17	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:36:LEU:HD12	1:B:37:LYS:H	0.82	1.34	15	18
1:A:93:GLN:H	1:A:93:GLN:CD	0.82	1.77	20	19
1:A:56:ILE:HD12	1:A:56:ILE:N	0.82	1.89	11	20
1:A:64:TYR:CE2	1:A:66:PHE:CE1	0.82	2.67	19	10
1:B:64:TYR:CE2	1:B:66:PHE:CE1	0.82	2.67	19	10
1:B:56:ILE:N	1:B:56:ILE:HD12	0.82	1.89	11	19
1:A:24:LYS:NZ	1:A:49:TYR:CE2	0.82	2.48	14	3
1:A:56:ILE:HG22	1:A:63:VAL:HG13	0.82	1.52	13	5
1:A:56:ILE:HD11	1:A:66:PHE:CE1	0.82	2.09	1	13
1:A:41:SER:O	1:A:43:ALA:N	0.82	2.12	4	10
1:A:47:ILE:H	1:A:47:ILE:CD1	0.82	1.81	20	11
1:B:24:LYS:NZ	1:B:49:TYR:CE2	0.81	2.48	14	3
1:A:36:LEU:HD12	1:A:37:LYS:H	0.81	1.35	15	18
1:A:93:GLN:H	1:A:93:GLN:NE2	0.81	1.73	12	24
1:A:42:ASN:ND2	1:A:45:TYR:CD1	0.81	2.48	12	1
1:B:42:ASN:ND2	1:B:45:TYR:CD1	0.81	2.49	12	1
1:B:56:ILE:HG22	1:B:63:VAL:HG13	0.81	1.52	13	5
1:B:84:ILE:HG22	1:B:85:LYS:N	0.81	1.91	14	16
1:B:22:LYS:NZ	1:B:54:TRP:CD1	0.81	2.48	23	1
1:A:22:LYS:NZ	1:A:54:TRP:CD1	0.81	2.48	23	1
1:A:56:ILE:HD11	1:A:66:PHE:CE2	0.80	2.11	2	11
1:A:45:TYR:CD1	1:A:47:ILE:HG23	0.80	2.11	21	1
1:B:29:LEU:H	1:B:29:LEU:CD2	0.80	1.86	10	22
1:B:56:ILE:HD11	1:B:66:PHE:CE2	0.80	2.11	2	11
1:A:93:GLN:HE21	1:B:19:LYS:HZ1	0.80	1.16	18	1
1:B:45:TYR:CD1	1:B:47:ILE:HG23	0.80	2.11	21	1
1:A:82:LEU:HD12	1:A:84:ILE:HD12	0.80	1.53	23	1
1:B:84:ILE:HD12	1:B:84:ILE:H	0.80	1.37	6	7
1:A:29:LEU:H	1:A:29:LEU:CD2	0.80	1.90	2	22
1:A:56:ILE:HG23	1:B:91:ILE:CG2	0.80	2.06	20	9
1:B:82:LEU:HD12	1:B:84:ILE:HD12	0.80	1.53	23	1
1:B:93:GLN:H	1:B:93:GLN:NE2	0.80	1.73	12	24
1:A:84:ILE:HG22	1:A:85:LYS:N	0.79	1.91	6	16
1:B:42:ASN:O	1:B:45:TYR:N	0.79	2.15	18	3
1:A:57:PHE:CE1	1:A:62:LYS:NZ	0.79	2.51	3	1
1:B:64:TYR:OH	1:B:66:PHE:CD2	0.79	2.36	1	10
1:B:77:ASN:O	1:B:80:ASN:ND2	0.79	2.16	16	9
1:A:79:ILE:O	1:A:81:LYS:N	0.79	2.16	8	24
1:A:91:ILE:CG2	1:B:56:ILE:HG23	0.79	2.07	20	9
1:A:42:ASN:O	1:A:45:TYR:N	0.78	2.15	18	3
1:A:87:MET:SD	1:B:87:MET:SD	0.78	2.82	10	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:52:LYS:O	1:B:67:ASN:ND2	0.78	2.17	17	18
1:A:89:ILE:N	1:A:89:ILE:HD12	0.78	1.93	13	1
1:A:64:TYR:OH	1:A:66:PHE:CD2	0.78	2.36	1	10
1:B:79:ILE:O	1:B:81:LYS:N	0.78	2.16	8	24
1:A:57:PHE:CZ	1:A:62:LYS:NZ	0.78	2.51	3	2
1:A:77:ASN:O	1:A:80:ASN:ND2	0.78	2.16	16	9
1:A:84:ILE:HD12	1:A:84:ILE:H	0.78	1.37	6	7
1:B:57:PHE:CE1	1:B:62:LYS:NZ	0.78	2.51	3	1
1:B:24:LYS:NZ	1:B:48:SER:CB	0.78	2.47	14	1
1:B:47:ILE:HG12	1:B:48:SER:N	0.78	1.93	21	1
1:A:52:LYS:O	1:A:67:ASN:ND2	0.78	2.17	17	18
1:B:10:MET:SD	1:B:11:ASN:N	0.78	2.57	11	2
1:B:48:SER:OG	1:B:49:TYR:N	0.78	2.16	10	4
1:A:24:LYS:NZ	1:A:48:SER:CB	0.78	2.47	14	1
1:B:57:PHE:CZ	1:B:62:LYS:NZ	0.77	2.51	3	2
1:A:10:MET:SD	1:A:11:ASN:N	0.77	2.57	11	2
1:A:17:ASN:O	1:A:29:LEU:HD23	0.77	1.79	13	1
1:A:64:TYR:CZ	1:A:79:ILE:HG13	0.77	2.14	23	25
1:B:33:GLY:O	1:B:34:ASN:ND2	0.77	2.17	20	1
1:A:80:ASN:HD22	1:A:81:LYS:N	0.77	1.78	16	4
1:A:33:GLY:O	1:A:34:ASN:ND2	0.77	2.17	20	1
1:A:36:LEU:HD12	1:A:37:LYS:N	0.77	1.94	15	16
1:B:56:ILE:N	1:B:62:LYS:NZ	0.77	2.33	3	1
1:B:28:SER:C	1:B:29:LEU:HD13	0.77	2.00	11	1
1:A:89:ILE:HD12	1:A:89:ILE:H	0.77	1.40	13	1
1:B:17:ASN:O	1:B:29:LEU:HD23	0.77	1.79	13	1
1:A:47:ILE:HG12	1:A:48:SER:N	0.77	1.93	21	1
1:A:56:ILE:N	1:A:62:LYS:NZ	0.77	2.33	3	1
1:A:69:LYS:O	1:A:71:THR:HG23	0.77	1.80	5	5
1:A:48:SER:OG	1:A:49:TYR:N	0.77	2.16	10	4
1:B:93:GLN:H	1:B:93:GLN:CD	0.77	1.82	12	8
1:A:49:TYR:N	1:A:68:GLU:OE2	0.76	2.19	21	1
1:B:64:TYR:CZ	1:B:79:ILE:HG13	0.76	2.14	23	25
1:B:49:TYR:N	1:B:68:GLU:OE2	0.76	2.18	21	1
1:A:64:TYR:CD1	1:A:65:THR:N	0.76	2.53	14	16
1:A:26:LYS:N	1:A:26:LYS:CD	0.76	2.49	1	5
1:B:26:LYS:N	1:B:26:LYS:CD	0.76	2.49	1	5
1:B:64:TYR:CD1	1:B:65:THR:N	0.76	2.54	11	16
1:B:80:ASN:HD22	1:B:81:LYS:N	0.76	1.78	16	4
1:B:36:LEU:HD12	1:B:37:LYS:N	0.76	1.94	15	16
1:B:58:VAL:O	1:B:61:GLU:N	0.76	2.18	14	24

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:28:SER:C	1:A:29:LEU:HD13	0.75	2.00	11	1
1:A:10:MET:SD	1:A:87:MET:SD	0.75	2.84	17	1
1:A:64:TYR:CE1	1:A:66:PHE:CD1	0.75	2.74	18	3
1:B:64:TYR:CE1	1:B:66:PHE:CD1	0.75	2.74	18	3
1:A:47:ILE:CD1	1:A:48:SER:H	0.75	1.94	10	2
1:A:75:ILE:O	1:A:77:ASN:N	0.75	2.20	18	25
1:B:47:ILE:N	1:B:47:ILE:CD1	0.75	2.50	13	10
1:B:13:ILE:HD13	1:B:13:ILE:H	0.75	1.40	1	1
1:B:17:ASN:ND2	1:B:29:LEU:CD2	0.75	2.49	18	20
1:A:64:TYR:OH	1:A:66:PHE:CD1	0.75	2.40	2	9
1:B:69:LYS:O	1:B:71:THR:HG23	0.75	1.80	5	5
1:A:56:ILE:HG23	1:B:91:ILE:HG21	0.75	1.58	18	3
1:B:64:TYR:OH	1:B:66:PHE:CD1	0.75	2.40	2	9
1:B:47:ILE:CD1	1:B:48:SER:H	0.75	1.94	10	2
1:A:54:TRP:CD1	1:B:94:ILE:HG23	0.74	2.17	15	3
1:B:10:MET:SD	1:B:87:MET:SD	0.74	2.84	17	1
1:A:32:ASN:O	1:A:34:ASN:N	0.74	2.20	22	9
1:B:75:ILE:O	1:B:77:ASN:N	0.74	2.20	18	25
1:A:91:ILE:HG21	1:B:56:ILE:HG23	0.74	1.60	18	3
1:A:47:ILE:N	1:A:47:ILE:CD1	0.74	2.50	13	6
1:B:45:TYR:CD2	1:B:71:THR:OG1	0.74	2.41	5	1
1:A:17:ASN:ND2	1:A:29:LEU:CD2	0.74	2.49	18	20
1:B:32:ASN:O	1:B:34:ASN:N	0.74	2.20	22	9
1:B:24:LYS:NZ	1:B:49:TYR:CE1	0.74	2.55	6	2
1:B:26:LYS:H	1:B:26:LYS:CD	0.74	1.96	7	4
1:B:26:LYS:O	1:B:43:ALA:HB2	0.73	1.83	8	7
1:B:24:LYS:NZ	1:B:49:TYR:CZ	0.73	2.55	14	3
1:B:53:ASN:ND2	1:B:53:ASN:H	0.73	1.81	10	1
1:A:21:ASN:ND2	1:A:22:LYS:H	0.73	1.81	22	4
1:A:45:TYR:CD2	1:A:71:THR:OG1	0.73	2.41	5	1
1:A:61:GLU:O	1:A:62:LYS:O	0.73	2.06	14	25
1:A:24:LYS:NZ	1:A:49:TYR:CE1	0.73	2.55	6	2
1:A:53:ASN:H	1:A:53:ASN:ND2	0.73	1.81	10	1
1:A:48:SER:O	1:A:49:TYR:CD2	0.73	2.41	21	4
1:A:24:LYS:NZ	1:A:49:TYR:CZ	0.73	2.55	14	3
1:B:64:TYR:CE1	1:B:66:PHE:CD2	0.73	2.76	10	1
1:A:13:ILE:HD13	1:A:13:ILE:H	0.73	1.40	1	1
1:B:61:GLU:O	1:B:62:LYS:O	0.73	2.07	14	25
1:A:22:LYS:O	1:A:24:LYS:N	0.73	2.21	18	2
1:A:26:LYS:CD	1:A:26:LYS:H	0.73	1.97	7	7
1:B:22:LYS:O	1:B:24:LYS:N	0.73	2.21	18	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:62:LYS:NZ	1:A:64:TYR:O	0.73	2.22	1	1
1:B:90:GLU:C	1:B:91:ILE:HD13	0.73	2.04	3	9
1:A:94:ILE:HG23	1:B:54:TRP:CD1	0.73	2.18	15	2
1:B:48:SER:O	1:B:49:TYR:CD2	0.73	2.41	21	4
1:A:19:LYS:NZ	1:B:93:GLN:HE21	0.73	1.82	18	1
1:B:68:GLU:N	1:B:68:GLU:OE2	0.73	2.22	25	5
1:A:90:GLU:C	1:A:91:ILE:HD13	0.73	2.04	3	9
1:A:77:ASN:CG	1:A:78:ASP:N	0.73	2.42	13	9
1:A:68:GLU:OE2	1:A:68:GLU:N	0.73	2.22	25	5
1:A:20:LEU:HD12	1:A:20:LEU:O	0.72	1.84	8	1
1:B:57:PHE:CD1	1:B:57:PHE:N	0.72	2.57	24	14
1:B:69:LYS:O	1:B:71:THR:N	0.72	2.23	11	14
1:A:47:ILE:HG21	1:A:68:GLU:O	0.72	1.84	10	1
1:B:77:ASN:CG	1:B:78:ASP:N	0.72	2.43	21	9
1:B:64:TYR:CE2	1:B:66:PHE:CD2	0.72	2.77	9	2
1:B:42:ASN:O	1:B:42:ASN:ND2	0.72	2.23	20	6
1:A:49:TYR:CD1	1:A:68:GLU:OE2	0.72	2.43	14	1
1:A:24:LYS:CE	1:A:48:SER:OG	0.72	2.38	24	1
1:A:54:TRP:CE3	1:B:92:LYS:O	0.72	2.42	2	13
1:A:69:LYS:O	1:A:71:THR:N	0.72	2.22	11	14
1:A:64:TYR:CE2	1:A:66:PHE:CD2	0.72	2.77	9	2
1:B:88:TYR:CD2	1:B:90:GLU:OE1	0.72	2.43	25	2
1:A:26:LYS:O	1:A:43:ALA:HB2	0.72	1.83	8	7
1:A:81:LYS:O	1:A:81:LYS:NZ	0.72	2.23	6	1
1:B:81:LYS:NZ	1:B:81:LYS:O	0.72	2.23	6	1
1:A:88:TYR:CD2	1:A:90:GLU:OE1	0.72	2.43	25	2
1:B:49:TYR:CD1	1:B:68:GLU:OE2	0.72	2.43	14	1
1:B:20:LEU:O	1:B:22:LYS:N	0.72	2.23	23	4
1:B:47:ILE:HG21	1:B:68:GLU:O	0.72	1.84	10	1
1:A:48:SER:O	1:A:49:TYR:CG	0.72	2.43	20	4
1:B:48:SER:OG	1:B:49:TYR:CE1	0.72	2.42	21	1
1:A:59:ASN:C	1:A:59:ASN:ND2	0.72	2.43	23	2
1:B:48:SER:O	1:B:49:TYR:CG	0.72	2.43	20	4
1:A:48:SER:OG	1:A:49:TYR:CE1	0.72	2.42	21	1
1:B:42:ASN:O	1:B:44:GLY:N	0.72	2.23	25	6
1:B:24:LYS:CE	1:B:48:SER:OG	0.72	2.38	24	1
1:B:21:ASN:ND2	1:B:22:LYS:H	0.72	1.81	22	4
1:A:42:ASN:O	1:A:42:ASN:ND2	0.72	2.23	20	6
1:A:24:LYS:NZ	1:A:49:TYR:CD2	0.72	2.58	14	1
1:A:58:VAL:O	1:A:61:GLU:N	0.71	2.18	14	24
1:A:88:TYR:CD1	1:A:90:GLU:OE1	0.71	2.43	13	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:62:LYS:NZ	1:B:64:TYR:O	0.71	2.22	1	1
1:B:58:VAL:O	1:B:59:ASN:ND2	0.71	2.23	2	9
1:A:23:GLY:O	1:A:25:GLY:N	0.71	2.23	20	4
1:B:24:LYS:NZ	1:B:49:TYR:CD2	0.71	2.58	14	1
1:A:22:LYS:N	1:A:49:TYR:OH	0.71	2.23	21	1
1:A:47:ILE:O	1:A:49:TYR:CD2	0.71	2.44	24	1
1:B:47:ILE:O	1:B:49:TYR:CD2	0.71	2.44	24	1
1:B:17:ASN:ND2	1:B:29:LEU:HD11	0.71	2.00	11	1
1:A:42:ASN:ND2	1:A:45:TYR:CG	0.71	2.58	12	1
1:B:88:TYR:CD1	1:B:90:GLU:OE1	0.71	2.43	13	2
1:B:90:GLU:CD	1:B:90:GLU:N	0.71	2.43	17	1
1:A:57:PHE:N	1:A:57:PHE:CD2	0.71	2.59	9	7
1:A:64:TYR:CE1	1:A:66:PHE:CD2	0.71	2.77	10	1
1:B:42:ASN:ND2	1:B:45:TYR:CG	0.71	2.58	12	1
1:B:88:TYR:CE2	1:B:90:GLU:OE1	0.71	2.43	25	2
1:A:57:PHE:CD1	1:A:57:PHE:N	0.71	2.57	24	15
1:A:64:TYR:OH	1:A:75:ILE:CG2	0.71	2.38	5	25
1:A:92:LYS:O	1:B:54:TRP:CE3	0.71	2.43	2	14
1:B:17:ASN:ND2	1:B:29:LEU:HD21	0.71	2.01	15	2
1:A:93:GLN:HE21	1:B:19:LYS:NZ	0.71	1.83	18	1
1:B:72:VAL:O	1:B:75:ILE:N	0.71	2.24	24	25
1:A:88:TYR:CE2	1:A:90:GLU:OE1	0.71	2.43	25	2
1:A:59:ASN:O	1:A:90:GLU:OE2	0.71	2.09	25	3
1:B:59:ASN:C	1:B:59:ASN:ND2	0.71	2.43	22	3
1:B:20:LEU:HD12	1:B:20:LEU:O	0.71	1.84	8	1
1:A:64:TYR:CD2	1:A:65:THR:N	0.71	2.59	10	9
1:A:92:LYS:O	1:B:54:TRP:CZ3	0.71	2.44	11	6
1:A:42:ASN:HD22	1:A:42:ASN:N	0.71	1.84	4	4
1:B:36:LEU:CD2	1:B:80:ASN:ND2	0.71	2.53	6	1
1:B:64:TYR:OH	1:B:75:ILE:CG2	0.71	2.38	5	25
1:A:13:ILE:HD13	1:A:14:ASN:H	0.71	1.45	4	2
1:B:77:ASN:OD1	1:B:78:ASP:N	0.70	2.24	21	9
1:B:23:GLY:O	1:B:25:GLY:N	0.70	2.24	20	4
1:A:58:VAL:O	1:A:59:ASN:ND2	0.70	2.23	2	9
1:A:80:ASN:N	1:A:80:ASN:HD22	0.70	1.84	5	4
1:B:80:ASN:N	1:B:80:ASN:HD22	0.70	1.84	5	3
1:B:22:LYS:N	1:B:49:TYR:OH	0.70	2.23	21	1
1:A:72:VAL:O	1:A:75:ILE:N	0.70	2.24	24	25
1:A:17:ASN:ND2	1:A:29:LEU:HD21	0.70	2.01	15	2
1:A:45:TYR:CD2	1:A:47:ILE:HD13	0.70	2.21	13	1
1:B:45:TYR:CD2	1:B:47:ILE:HD13	0.70	2.21	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:54:TRP:CZ3	1:B:92:LYS:O	0.70	2.44	11	6
1:A:42:ASN:O	1:A:44:GLY:N	0.70	2.23	25	6
1:B:36:LEU:CD2	1:B:80:ASN:HD21	0.70	2.00	13	2
1:A:17:ASN:ND2	1:A:29:LEU:HD11	0.70	2.00	11	1
1:B:64:TYR:CD2	1:B:65:THR:N	0.70	2.59	10	9
1:A:24:LYS:HZ3	1:A:24:LYS:N	0.70	1.85	4	1
1:A:36:LEU:CD2	1:A:80:ASN:HD21	0.70	1.99	13	2
1:A:26:LYS:H	1:A:42:ASN:ND2	0.70	1.85	25	1
1:A:31:MET:SD	1:A:31:MET:N	0.70	2.65	8	5
1:A:20:LEU:O	1:A:22:LYS:N	0.70	2.23	23	4
1:A:45:TYR:CG	1:A:71:THR:HG21	0.70	2.22	5	1
1:B:45:TYR:CG	1:B:47:ILE:HD11	0.70	2.21	20	2
1:B:33:GLY:O	1:B:86:GLY:N	0.70	2.25	20	2
1:A:77:ASN:OD1	1:A:78:ASP:N	0.70	2.25	3	9
1:A:43:ALA:O	1:A:45:TYR:CD1	0.70	2.45	5	2
1:B:48:SER:OG	1:B:49:TYR:CD1	0.70	2.43	21	1
1:A:80:ASN:ND2	1:A:81:LYS:N	0.70	2.40	16	4
1:B:43:ALA:O	1:B:45:TYR:CD1	0.70	2.45	5	2
1:B:82:LEU:C	1:B:82:LEU:HD12	0.70	2.08	17	10
1:B:42:ASN:N	1:B:42:ASN:HD22	0.70	1.84	4	4
1:A:36:LEU:CD2	1:A:80:ASN:ND2	0.70	2.53	6	1
1:A:45:TYR:CG	1:A:47:ILE:HD11	0.70	2.21	20	2
1:B:88:TYR:CZ	1:B:90:GLU:CD	0.70	2.65	13	2
1:B:43:ALA:O	1:B:45:TYR:CD2	0.70	2.45	15	2
1:A:90:GLU:N	1:A:90:GLU:CD	0.70	2.43	17	2
1:A:89:ILE:HG23	1:B:89:ILE:HG23	0.70	1.62	25	20
1:B:45:TYR:CG	1:B:71:THR:HG21	0.70	2.22	5	1
1:B:35:GLN:NE2	1:B:84:ILE:O	0.70	2.25	24	2
1:B:31:MET:SD	1:B:31:MET:N	0.70	2.65	8	4
1:B:82:LEU:CD1	1:B:84:ILE:HG23	0.70	2.17	13	4
1:A:23:GLY:O	1:A:24:LYS:O	0.69	2.09	3	9
1:A:82:LEU:CD1	1:A:84:ILE:HG23	0.69	2.17	13	4
1:B:54:TRP:CD1	1:B:68:GLU:OE2	0.69	2.45	10	1
1:A:43:ALA:O	1:A:45:TYR:CE2	0.69	2.45	18	1
1:A:24:LYS:CD	1:A:24:LYS:H	0.69	2.00	9	5
1:A:10:MET:O	1:A:13:ILE:CD1	0.69	2.40	9	5
1:B:49:TYR:CE2	1:B:68:GLU:OE1	0.69	2.46	8	1
1:B:57:PHE:N	1:B:57:PHE:CD2	0.69	2.59	9	6
1:A:89:ILE:N	1:A:89:ILE:CD1	0.69	2.51	18	21
1:B:10:MET:O	1:B:13:ILE:CD1	0.69	2.40	9	5
1:A:49:TYR:CE2	1:A:68:GLU:OE1	0.69	2.46	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:88:TYR:CZ	1:A:90:GLU:CD	0.69	2.65	13	2
1:B:43:ALA:O	1:B:45:TYR:CE2	0.69	2.45	18	1
1:B:23:GLY:O	1:B:24:LYS:O	0.69	2.09	3	9
1:B:27:LEU:HD11	1:B:29:LEU:CD1	0.69	2.18	6	18
1:B:24:LYS:O	1:B:46:GLY:N	0.69	2.25	5	2
1:A:21:ASN:ND2	1:A:27:LEU:O	0.69	2.26	13	2
1:A:35:GLN:NE2	1:A:84:ILE:O	0.69	2.25	7	2
1:A:89:ILE:CD1	1:B:10:MET:SD	0.69	2.80	25	1
1:B:64:TYR:CD1	1:B:79:ILE:HG21	0.69	2.23	21	6
1:A:24:LYS:O	1:A:46:GLY:N	0.69	2.25	5	2
1:B:82:LEU:C	1:B:82:LEU:CD1	0.69	2.59	23	6
1:A:27:LEU:HD11	1:A:29:LEU:CD1	0.69	2.18	6	17
1:A:13:ILE:N	1:A:13:ILE:HD12	0.69	2.02	22	10
1:A:54:TRP:CD1	1:A:68:GLU:OE2	0.69	2.45	10	1
1:B:59:ASN:O	1:B:90:GLU:OE2	0.69	2.09	25	3
1:A:43:ALA:O	1:A:45:TYR:CD2	0.69	2.45	15	2
1:A:47:ILE:CG1	1:A:48:SER:N	0.69	2.55	21	1
1:B:59:ASN:ND2	1:B:59:ASN:O	0.69	2.26	23	2
1:B:90:GLU:OE2	1:B:90:GLU:N	0.69	2.26	23	1
1:A:82:LEU:C	1:A:82:LEU:HD12	0.69	2.08	17	10
1:A:14:ASN:O	1:A:16:VAL:N	0.69	2.26	24	5
1:B:14:ASN:O	1:B:16:VAL:N	0.69	2.26	24	5
1:B:13:ILE:HD13	1:B:14:ASN:H	0.69	1.45	4	2
1:B:62:LYS:NZ	1:B:65:THR:OG1	0.69	2.25	13	4
1:A:26:LYS:HE2	1:A:43:ALA:HB3	0.69	1.64	7	3
1:A:56:ILE:C	1:A:57:PHE:CD2	0.69	2.66	15	8
1:A:83:ASN:ND2	1:A:83:ASN:O	0.69	2.26	8	4
1:A:33:GLY:O	1:A:86:GLY:N	0.69	2.24	20	2
1:A:48:SER:OG	1:A:49:TYR:CD1	0.69	2.43	21	1
1:A:59:ASN:ND2	1:A:59:ASN:O	0.69	2.26	23	2
1:A:90:GLU:N	1:A:90:GLU:OE2	0.69	2.26	23	1
1:B:82:LEU:HD12	1:B:84:ILE:CD1	0.69	2.18	23	1
1:B:13:ILE:HD12	1:B:13:ILE:N	0.69	2.02	22	11
1:B:88:TYR:CZ	1:B:90:GLU:OE1	0.69	2.46	25	2
1:A:82:LEU:HD12	1:A:84:ILE:CD1	0.69	2.18	23	1
1:B:89:ILE:N	1:B:89:ILE:CD1	0.69	2.48	25	23
1:B:21:ASN:CG	1:B:21:ASN:O	0.69	2.32	4	1
1:B:80:ASN:ND2	1:B:81:LYS:N	0.69	2.39	16	4
1:A:62:LYS:NZ	1:A:65:THR:OG1	0.69	2.25	13	4
1:B:56:ILE:C	1:B:57:PHE:CD2	0.69	2.66	15	7
1:A:88:TYR:CE2	1:A:89:ILE:O	0.69	2.46	20	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:MET:SD	1:B:89:ILE:CD1	0.69	2.81	25	1
1:B:83:ASN:O	1:B:83:ASN:ND2	0.68	2.26	8	9
1:A:41:SER:C	1:A:43:ALA:N	0.68	2.46	4	10
1:B:26:LYS:HE2	1:B:43:ALA:HB3	0.68	1.64	7	3
1:A:88:TYR:CG	1:A:90:GLU:OE1	0.68	2.46	25	2
1:A:56:ILE:O	1:A:62:LYS:NZ	0.68	2.21	1	2
1:A:26:LYS:CD	1:A:26:LYS:N	0.68	2.56	7	4
1:B:88:TYR:CZ	1:B:90:GLU:CG	0.68	2.76	13	6
1:B:26:LYS:H	1:B:42:ASN:ND2	0.68	1.85	25	1
1:A:64:TYR:CD1	1:A:79:ILE:HG21	0.68	2.23	21	6
1:B:70:SER:CB	1:B:75:ILE:HD11	0.68	2.19	18	24
1:A:12:SER:O	1:A:14:ASN:N	0.68	2.27	5	4
1:B:24:LYS:CD	1:B:24:LYS:H	0.68	2.00	9	4
1:B:88:TYR:CE2	1:B:90:GLU:CD	0.68	2.66	13	2
1:A:64:TYR:HH	1:A:66:PHE:HD2	0.68	1.23	1	7
1:A:21:ASN:OD1	1:A:22:LYS:N	0.68	2.27	8	2
1:B:21:ASN:ND2	1:B:27:LEU:O	0.68	2.26	13	2
1:A:35:GLN:HE21	1:A:83:ASN:ND2	0.68	1.86	15	1
1:B:88:TYR:CE2	1:B:89:ILE:O	0.68	2.46	20	3
1:A:74:ASN:O	1:A:77:ASN:ND2	0.68	2.27	3	9
1:A:53:ASN:OD1	1:A:53:ASN:N	0.68	2.27	6	9
1:B:88:TYR:CG	1:B:90:GLU:OE1	0.68	2.46	25	2
1:A:13:ILE:N	1:A:13:ILE:CD1	0.68	2.46	1	9
1:A:58:VAL:O	1:A:60:GLY:N	0.68	2.26	4	19
1:B:66:PHE:CD2	1:B:72:VAL:HG12	0.68	2.24	18	14
1:B:69:LYS:C	1:B:71:THR:H	0.68	1.92	22	20
1:A:84:ILE:CG2	1:A:85:LYS:H	0.68	2.02	8	14
1:A:88:TYR:CE2	1:A:90:GLU:CD	0.68	2.67	13	2
1:A:90:GLU:N	1:A:90:GLU:OE1	0.68	2.26	17	1
1:A:69:LYS:C	1:A:71:THR:H	0.68	1.92	22	20
1:A:70:SER:CB	1:A:75:ILE:HD11	0.68	2.18	18	24
1:B:51:ASP:OD1	1:B:67:ASN:ND2	0.68	2.27	2	3
1:B:21:ASN:OD1	1:B:22:LYS:N	0.68	2.27	5	2
1:A:88:TYR:CZ	1:A:90:GLU:CG	0.68	2.76	13	6
1:A:68:GLU:N	1:A:68:GLU:OE1	0.68	2.27	7	1
1:B:53:ASN:OD1	1:B:53:ASN:N	0.68	2.27	6	8
1:A:57:PHE:CE2	1:A:62:LYS:CD	0.68	2.77	15	7
1:A:88:TYR:CZ	1:A:90:GLU:OE1	0.68	2.46	25	2
1:B:90:GLU:N	1:B:90:GLU:OE1	0.68	2.26	17	1
1:B:47:ILE:CG1	1:B:48:SER:N	0.68	2.55	21	1
1:B:58:VAL:O	1:B:60:GLY:N	0.68	2.26	6	19

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:83:ASN:O	1:B:84:ILE:O	0.68	2.12	23	18
1:A:56:ILE:N	1:A:56:ILE:HD12	0.68	2.03	3	1
1:A:24:LYS:NZ	1:A:24:LYS:H	0.68	1.87	4	1
1:B:68:GLU:OE1	1:B:68:GLU:N	0.68	2.26	7	1
1:A:45:TYR:O	1:A:45:TYR:CD1	0.68	2.47	19	2
1:B:45:TYR:O	1:B:45:TYR:CD1	0.68	2.47	19	2
1:A:66:PHE:CD2	1:A:72:VAL:HG12	0.67	2.24	18	14
1:A:82:LEU:C	1:A:82:LEU:CD1	0.67	2.59	23	9
1:B:74:ASN:O	1:B:77:ASN:ND2	0.67	2.27	3	9
1:B:67:ASN:CG	1:B:68:GLU:N	0.67	2.46	11	4
1:B:84:ILE:CG2	1:B:85:LYS:H	0.67	2.01	14	15
1:A:51:ASP:OD1	1:A:67:ASN:ND2	0.67	2.27	2	3
1:B:24:LYS:H	1:B:24:LYS:NZ	0.67	1.87	4	1
1:A:70:SER:C	1:A:71:THR:HG22	0.67	2.10	10	1
1:A:17:ASN:ND2	1:A:29:LEU:O	0.67	2.28	13	1
1:B:16:VAL:O	1:B:19:LYS:N	0.67	2.27	24	22
1:B:72:VAL:CG2	1:B:73:GLY:N	0.67	2.58	1	25
1:B:35:GLN:HE21	1:B:83:ASN:ND2	0.67	1.86	15	1
1:A:93:GLN:NE2	1:B:19:LYS:HZ1	0.67	1.87	18	1
1:B:12:SER:O	1:B:14:ASN:N	0.67	2.26	5	4
1:B:26:LYS:CD	1:B:26:LYS:N	0.67	2.56	7	3
1:B:57:PHE:CE2	1:B:62:LYS:CD	0.67	2.77	15	7
1:B:58:VAL:N	1:B:61:GLU:O	0.67	2.28	24	24
1:A:45:TYR:CD1	1:A:45:TYR:N	0.67	2.61	5	2
1:B:41:SER:C	1:B:43:ALA:N	0.67	2.47	14	10
1:B:90:GLU:N	1:B:90:GLU:CD	0.67	2.45	23	1
1:A:16:VAL:O	1:A:19:LYS:N	0.67	2.27	24	22
1:A:48:SER:C	1:A:49:TYR:CG	0.67	2.68	21	2
1:A:21:ASN:CG	1:A:21:ASN:O	0.67	2.32	4	1
1:A:21:ASN:OD1	1:A:21:ASN:N	0.67	2.28	19	1
1:A:83:ASN:O	1:A:84:ILE:O	0.66	2.12	23	18
1:A:11:ASN:O	1:A:13:ILE:HD12	0.66	1.90	4	2
1:B:17:ASN:ND2	1:B:29:LEU:O	0.66	2.28	13	1
1:A:72:VAL:CG2	1:A:73:GLY:N	0.66	2.58	1	25
1:B:21:ASN:OD1	1:B:21:ASN:N	0.66	2.28	19	1
1:A:67:ASN:CG	1:A:68:GLU:N	0.66	2.46	11	4
1:A:89:ILE:HD13	1:B:87:MET:HG2	0.66	1.68	20	1
1:A:82:LEU:O	1:A:82:LEU:CD2	0.66	2.43	23	1
1:A:26:LYS:O	1:A:40:SER:OG	0.66	2.12	6	6
1:A:24:LYS:HZ3	1:A:24:LYS:H	0.66	1.31	4	1
1:A:32:ASN:ND2	1:A:35:GLN:OE1	0.66	2.29	17	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:48:SER:C	1:B:49:TYR:CG	0.66	2.69	21	2
1:A:84:ILE:CG2	1:A:85:LYS:N	0.66	2.58	23	15
1:A:47:ILE:O	1:A:48:SER:CB	0.66	2.43	13	3
1:B:47:ILE:O	1:B:48:SER:CB	0.66	2.42	13	3
1:B:32:ASN:ND2	1:B:35:GLN:OE1	0.66	2.29	17	2
1:A:20:LEU:O	1:A:24:LYS:NZ	0.66	2.29	19	2
1:A:52:LYS:HZ2	1:A:52:LYS:HB2	0.66	1.48	25	1
1:B:93:GLN:CD	1:B:93:GLN:N	0.66	2.47	20	17
1:B:84:ILE:CG2	1:B:85:LYS:N	0.66	2.58	12	15
1:A:87:MET:HG2	1:B:89:ILE:HD13	0.66	1.68	20	1
1:A:30:SER:O	1:A:36:LEU:HD12	0.66	1.91	3	1
1:B:30:SER:O	1:B:36:LEU:HD12	0.66	1.91	3	1
1:A:24:LYS:N	1:A:24:LYS:CD	0.66	2.59	2	6
1:A:81:LYS:O	1:A:81:LYS:CD	0.66	2.44	25	7
1:B:34:ASN:OD1	1:B:86:GLY:CA	0.66	2.44	7	1
1:A:23:GLY:O	1:A:48:SER:N	0.66	2.29	24	1
1:A:26:LYS:HD3	1:A:26:LYS:N	0.66	2.06	24	2
1:B:57:PHE:CD2	1:B:57:PHE:N	0.66	2.60	23	4
1:A:57:PHE:CD2	1:A:57:PHE:N	0.66	2.60	23	3
1:B:26:LYS:CD	1:B:26:LYS:H	0.66	2.02	1	4
1:B:64:TYR:HH	1:B:66:PHE:HD2	0.66	1.32	1	8
1:A:14:ASN:O	1:A:17:ASN:N	0.66	2.29	3	6
1:B:11:ASN:O	1:B:13:ILE:HD12	0.66	1.91	4	2
1:B:81:LYS:CD	1:B:81:LYS:O	0.66	2.44	25	10
1:B:82:LEU:O	1:B:82:LEU:CD2	0.66	2.43	23	1
1:B:45:TYR:CD1	1:B:45:TYR:C	0.65	2.69	19	5
1:A:79:ILE:O	1:A:82:LEU:CD1	0.65	2.45	10	5
1:A:93:GLN:CD	1:A:93:GLN:N	0.65	2.48	1	17
1:A:56:ILE:HD12	1:A:56:ILE:H	0.65	1.50	12	13
1:B:41:SER:C	1:B:43:ALA:H	0.65	1.95	20	10
1:B:88:TYR:CE1	1:B:90:GLU:OE1	0.65	2.49	25	2
1:B:61:GLU:CD	1:B:92:LYS:NZ	0.65	2.50	25	1
1:B:79:ILE:O	1:B:82:LEU:CD1	0.65	2.45	18	5
1:A:88:TYR:CE1	1:A:90:GLU:OE1	0.65	2.49	25	2
1:B:20:LEU:O	1:B:24:LYS:NZ	0.65	2.29	19	2
1:B:47:ILE:H	1:B:47:ILE:CD1	0.65	2.03	22	13
1:B:14:ASN:O	1:B:17:ASN:N	0.65	2.29	3	6
1:B:70:SER:C	1:B:71:THR:HG22	0.65	2.09	10	1
1:A:51:ASP:OD2	1:A:69:LYS:NZ	0.65	2.29	11	1
1:B:10:MET:SD	1:B:86:GLY:O	0.65	2.55	15	1
1:B:24:LYS:N	1:B:24:LYS:CD	0.65	2.59	2	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:83:ASN:CG	1:B:83:ASN:O	0.65	2.35	1	6
1:B:64:TYR:CD2	1:B:79:ILE:HG21	0.65	2.27	19	11
1:A:41:SER:C	1:A:43:ALA:H	0.65	1.94	16	10
1:B:51:ASP:OD2	1:B:69:LYS:NZ	0.65	2.29	11	1
1:B:52:LYS:HZ2	1:B:52:LYS:HB2	0.65	1.49	25	1
1:B:19:LYS:O	1:B:21:ASN:N	0.65	2.30	5	13
1:A:43:ALA:O	1:A:45:TYR:N	0.65	2.30	13	10
1:A:34:ASN:OD1	1:A:86:GLY:CA	0.65	2.44	7	1
1:A:83:ASN:CG	1:A:83:ASN:O	0.65	2.35	1	8
1:B:13:ILE:N	1:B:13:ILE:CD1	0.65	2.46	1	11
1:B:56:ILE:HD12	1:B:56:ILE:H	0.65	1.50	12	12
1:A:76:SER:O	1:A:80:ASN:ND2	0.65	2.30	5	2
1:B:33:GLY:C	1:B:34:ASN:ND2	0.65	2.51	21	2
1:B:34:ASN:O	1:B:84:ILE:O	0.65	2.15	14	13
1:B:56:ILE:O	1:B:62:LYS:NZ	0.65	2.21	1	2
1:A:17:ASN:ND2	1:A:17:ASN:C	0.65	2.50	18	14
1:B:10:MET:O	1:B:11:ASN:CB	0.65	2.45	8	3
1:B:26:LYS:HD3	1:B:26:LYS:N	0.65	2.06	24	2
1:A:80:ASN:ND2	1:A:80:ASN:C	0.65	2.49	21	4
1:B:76:SER:O	1:B:80:ASN:ND2	0.65	2.30	5	2
1:B:23:GLY:O	1:B:48:SER:N	0.65	2.29	24	1
1:B:47:ILE:HG23	1:B:72:VAL:HG13	0.65	1.68	25	1
1:A:72:VAL:O	1:A:76:SER:N	0.65	2.30	10	25
1:A:66:PHE:CD1	1:A:72:VAL:HG12	0.65	2.27	14	11
1:B:42:ASN:N	1:B:42:ASN:ND2	0.65	2.45	4	3
1:B:56:ILE:N	1:B:62:LYS:HZ1	0.65	1.90	3	1
1:A:30:SER:C	1:A:31:MET:SD	0.65	2.76	16	1
1:B:72:VAL:HG23	1:B:73:GLY:N	0.64	2.07	24	22
1:A:12:SER:O	1:A:16:VAL:CG2	0.64	2.45	15	7
1:B:83:ASN:O	1:B:85:LYS:N	0.64	2.31	22	1
1:A:23:GLY:O	1:A:48:SER:CA	0.64	2.45	24	1
1:A:58:VAL:N	1:A:61:GLU:O	0.64	2.28	24	23
1:B:32:ASN:O	1:B:33:GLY:C	0.64	2.36	4	14
1:B:17:ASN:HD22	1:B:29:LEU:HD23	0.64	1.52	6	3
1:B:53:ASN:ND2	1:B:67:ASN:HD21	0.64	1.90	15	1
1:A:49:TYR:CA	1:A:68:GLU:OE2	0.64	2.45	21	1
1:A:56:ILE:CG2	1:B:91:ILE:HG23	0.64	2.22	23	1
1:A:72:VAL:HG23	1:A:73:GLY:N	0.64	2.07	24	22
1:B:17:ASN:HD21	1:B:29:LEU:CD2	0.64	2.01	23	6
1:B:59:ASN:O	1:B:59:ASN:ND2	0.64	2.31	15	5
1:A:64:TYR:CD2	1:A:79:ILE:HG21	0.64	2.27	19	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:56:ILE:N	1:A:62:LYS:HZ1	0.64	1.89	3	1
1:B:24:LYS:O	1:B:25:GLY:O	0.64	2.16	14	8
1:B:88:TYR:CE1	1:B:90:GLU:CG	0.64	2.80	11	2
1:B:47:ILE:CG2	1:B:68:GLU:O	0.64	2.45	10	1
1:A:10:MET:SD	1:A:86:GLY:O	0.64	2.55	15	1
1:A:45:TYR:CD1	1:A:45:TYR:C	0.64	2.69	19	5
1:B:17:ASN:ND2	1:B:17:ASN:C	0.64	2.50	18	14
1:A:24:LYS:O	1:A:25:GLY:O	0.64	2.16	18	8
1:B:12:SER:O	1:B:16:VAL:CG2	0.64	2.45	12	8
1:A:33:GLY:C	1:A:34:ASN:ND2	0.64	2.51	21	2
1:A:44:GLY:O	1:A:47:ILE:CD1	0.64	2.45	19	4
1:A:59:ASN:O	1:A:59:ASN:ND2	0.64	2.31	15	5
1:B:42:ASN:HD22	1:B:42:ASN:H	0.64	1.33	4	4
1:B:43:ALA:O	1:B:45:TYR:N	0.64	2.30	13	10
1:A:71:THR:CG2	1:A:71:THR:O	0.64	2.46	18	1
1:A:61:GLU:CD	1:A:92:LYS:NZ	0.64	2.50	25	1
1:B:72:VAL:O	1:B:76:SER:N	0.64	2.30	10	25
1:B:66:PHE:CD1	1:B:72:VAL:HG12	0.64	2.27	14	11
1:A:58:VAL:HG21	1:A:85:LYS:HG3	0.64	1.68	23	5
1:B:49:TYR:CA	1:B:68:GLU:OE2	0.64	2.45	21	1
1:B:24:LYS:H	1:B:24:LYS:CE	0.64	2.06	4	1
1:B:26:LYS:O	1:B:40:SER:OG	0.64	2.12	6	6
1:B:66:PHE:N	1:B:66:PHE:CD2	0.64	2.64	7	9
1:A:21:ASN:CG	1:A:22:LYS:N	0.64	2.51	7	7
1:A:42:ASN:C	1:A:44:GLY:H	0.64	1.96	13	7
1:A:17:ASN:HD22	1:A:29:LEU:HD23	0.64	1.52	6	3
1:A:43:ALA:C	1:A:45:TYR:H	0.64	1.96	20	11
1:B:80:ASN:ND2	1:B:80:ASN:C	0.64	2.50	4	4
1:B:35:GLN:HE21	1:B:83:ASN:HD22	0.64	1.36	15	1
1:B:23:GLY:O	1:B:48:SER:CA	0.64	2.45	24	1
1:A:34:ASN:O	1:A:84:ILE:O	0.64	2.15	14	13
1:A:42:ASN:HD22	1:A:42:ASN:H	0.64	1.34	4	2
1:A:47:ILE:HG23	1:A:72:VAL:HG13	0.64	1.68	25	1
1:A:21:ASN:O	1:A:49:TYR:OH	0.64	2.16	3	2
1:B:21:ASN:CG	1:B:22:LYS:N	0.64	2.51	7	7
1:B:42:ASN:C	1:B:44:GLY:H	0.64	1.96	13	7
1:A:47:ILE:O	1:A:48:SER:OG	0.64	2.15	20	3
1:A:19:LYS:HZ2	1:B:93:GLN:HE21	0.64	1.35	18	1
1:A:42:ASN:N	1:A:42:ASN:ND2	0.63	2.45	4	3
1:A:17:ASN:ND2	1:A:29:LEU:CG	0.63	2.61	11	8
1:B:30:SER:C	1:B:31:MET:SD	0.63	2.76	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:TYR:CG	1:A:68:GLU:OE1	0.63	2.51	24	1
1:A:32:ASN:O	1:A:33:GLY:C	0.63	2.36	4	14
1:A:10:MET:O	1:A:11:ASN:CB	0.63	2.45	8	3
1:B:21:ASN:O	1:B:49:TYR:OH	0.63	2.16	3	2
1:B:71:THR:OG1	1:B:71:THR:O	0.63	2.16	14	8
1:A:88:TYR:CE1	1:A:90:GLU:CG	0.63	2.80	11	2
1:B:58:VAL:HG13	1:B:59:ASN:ND2	0.63	2.08	18	3
1:A:47:ILE:CG2	1:A:68:GLU:O	0.63	2.45	10	1
1:A:19:LYS:O	1:A:21:ASN:N	0.63	2.30	5	13
1:A:89:ILE:O	1:A:90:GLU:OE1	0.63	2.17	6	4
1:A:10:MET:SD	1:A:10:MET:C	0.63	2.76	11	1
1:B:49:TYR:CG	1:B:68:GLU:OE1	0.63	2.51	24	1
1:A:49:TYR:O	1:A:50:GLU:O	0.63	2.16	18	15
1:A:75:ILE:C	1:A:77:ASN:N	0.63	2.50	18	25
1:A:78:ASP:O	1:A:81:LYS:CG	0.63	2.47	20	15
1:B:26:LYS:HD3	1:B:26:LYS:H	0.63	1.53	19	4
1:B:32:ASN:OD1	1:B:33:GLY:N	0.63	2.32	4	2
1:B:43:ALA:C	1:B:45:TYR:H	0.63	1.96	20	11
1:B:58:VAL:HG21	1:B:85:LYS:HG3	0.63	1.68	23	5
1:B:17:ASN:ND2	1:B:29:LEU:CG	0.63	2.61	11	8
1:B:24:LYS:NZ	1:B:48:SER:HB2	0.63	2.09	14	1
1:B:20:LEU:HD21	1:B:54:TRP:CD2	0.63	2.28	11	5
1:A:52:LYS:N	1:A:67:ASN:HD21	0.63	1.92	7	1
1:A:58:VAL:HG13	1:A:59:ASN:ND2	0.63	2.08	18	3
1:A:87:MET:CG	1:A:87:MET:O	0.63	2.46	18	3
1:A:53:ASN:ND2	1:A:67:ASN:HD21	0.63	1.91	15	1
1:B:29:LEU:N	1:B:29:LEU:CD1	0.63	2.49	11	12
1:A:71:THR:O	1:A:71:THR:OG1	0.63	2.16	14	13
1:B:71:THR:O	1:B:71:THR:CG2	0.63	2.46	18	1
1:A:89:ILE:HG21	1:B:88:TYR:O	0.63	1.94	3	24
1:A:53:ASN:O	1:B:94:ILE:HG22	0.63	1.94	9	13
1:A:20:LEU:HD22	1:A:66:PHE:CZ	0.63	2.28	11	4
1:A:29:LEU:HB3	1:A:36:LEU:HD11	0.63	1.69	11	3
1:B:20:LEU:HD22	1:B:66:PHE:CZ	0.63	2.28	11	4
1:A:24:LYS:H	1:A:24:LYS:CE	0.63	2.06	4	1
1:A:32:ASN:OD1	1:A:33:GLY:N	0.63	2.32	4	2
1:B:24:LYS:HZ2	1:B:48:SER:CA	0.63	2.07	14	1
1:A:37:LYS:HB2	1:A:37:LYS:HZ2	0.63	1.54	18	1
1:B:89:ILE:C	1:B:90:GLU:CD	0.63	2.57	25	1
1:B:49:TYR:O	1:B:50:GLU:O	0.63	2.16	18	15
1:B:75:ILE:C	1:B:77:ASN:N	0.63	2.50	18	25

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:93:GLN:OE1	1:B:93:GLN:O	0.63	2.17	14	16
1:B:78:ASP:O	1:B:81:LYS:CG	0.63	2.47	20	15
1:A:70:SER:O	1:A:71:THR:O	0.63	2.16	18	10
1:B:45:TYR:CD1	1:B:45:TYR:N	0.63	2.61	5	2
1:B:89:ILE:O	1:B:90:GLU:OE1	0.63	2.17	6	4
1:B:10:MET:SD	1:B:10:MET:C	0.63	2.77	11	1
1:A:91:ILE:HG23	1:B:56:ILE:CG2	0.63	2.21	23	1
1:A:14:ASN:N	1:A:14:ASN:HD22	0.62	1.92	11	5
1:A:20:LEU:HD21	1:A:54:TRP:CD2	0.62	2.27	11	5
1:B:13:ILE:CD1	1:B:14:ASN:H	0.62	2.07	4	2
1:B:70:SER:O	1:B:71:THR:HG22	0.62	1.94	10	1
1:B:48:SER:O	1:B:50:GLU:N	0.62	2.32	11	1
1:A:66:PHE:N	1:A:66:PHE:CD1	0.62	2.67	15	10
1:A:93:GLN:O	1:A:93:GLN:OE1	0.62	2.17	14	25
1:A:48:SER:O	1:A:50:GLU:N	0.62	2.32	11	1
1:A:35:GLN:HE21	1:A:83:ASN:HD22	0.62	1.36	15	1
1:A:47:ILE:O	1:A:48:SER:HB2	0.62	1.94	21	1
1:A:83:ASN:O	1:A:85:LYS:N	0.62	2.31	22	1
1:A:42:ASN:H	1:A:42:ASN:HD22	0.62	1.37	10	2
1:A:59:ASN:N	1:A:88:TYR:O	0.62	2.33	20	2
1:A:88:TYR:O	1:B:89:ILE:HG21	0.62	1.94	3	24
1:B:44:GLY:O	1:B:47:ILE:CD1	0.62	2.45	19	4
1:B:46:GLY:C	1:B:47:ILE:HD13	0.62	2.15	4	1
1:B:32:ASN:OD1	1:B:37:LYS:NZ	0.62	2.32	5	1
1:A:69:LYS:C	1:A:71:THR:N	0.62	2.53	11	20
1:A:66:PHE:N	1:A:66:PHE:CD2	0.62	2.67	14	9
1:A:94:ILE:HG22	1:B:53:ASN:O	0.62	1.94	9	13
1:A:46:GLY:C	1:A:47:ILE:HD13	0.62	2.15	4	1
1:A:64:TYR:C	1:A:65:THR:HG1	0.62	1.97	13	1
1:B:47:ILE:O	1:B:48:SER:OG	0.62	2.17	24	3
1:B:34:ASN:CG	1:B:85:LYS:C	0.62	2.58	21	1
1:A:89:ILE:C	1:A:90:GLU:CD	0.62	2.57	25	1
1:B:45:TYR:CE1	1:B:47:ILE:CD1	0.62	2.83	15	1
1:A:49:TYR:O	1:A:68:GLU:OE2	0.62	2.18	21	1
1:B:20:LEU:O	1:B:49:TYR:OH	0.62	2.18	24	1
1:A:13:ILE:CD1	1:A:14:ASN:H	0.62	2.07	4	2
1:B:89:ILE:O	1:B:90:GLU:CG	0.62	2.48	11	6
1:B:64:TYR:CE2	1:B:66:PHE:CD1	0.62	2.88	19	3
1:A:45:TYR:CE1	1:A:47:ILE:CD1	0.62	2.83	15	1
1:A:23:GLY:O	1:A:24:LYS:C	0.62	2.38	9	10
1:A:93:GLN:O	1:A:93:GLN:CD	0.62	2.38	19	8

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:26:LYS:CD	1:A:41:SER:O	0.62	2.48	4	2
1:B:26:LYS:CD	1:B:41:SER:O	0.62	2.48	4	2
1:A:32:ASN:OD1	1:A:37:LYS:NZ	0.62	2.32	5	1
1:B:70:SER:O	1:B:71:THR:O	0.62	2.16	18	10
1:B:89:ILE:O	1:B:90:GLU:CD	0.62	2.38	5	4
1:B:34:ASN:ND2	1:B:86:GLY:CA	0.62	2.63	21	1
1:A:93:GLN:O	1:A:94:ILE:C	0.62	2.39	10	25
1:B:52:LYS:N	1:B:67:ASN:HD21	0.62	1.92	7	1
1:A:24:LYS:NZ	1:A:48:SER:HB2	0.62	2.09	14	1
1:B:49:TYR:O	1:B:68:GLU:OE2	0.62	2.17	21	1
1:A:26:LYS:H	1:A:26:LYS:HD3	0.61	1.54	19	10
1:A:24:LYS:CD	1:A:24:LYS:N	0.61	2.63	9	3
1:A:13:ILE:HD12	1:A:13:ILE:H	0.61	1.55	13	8
1:A:75:ILE:O	1:A:78:ASP:N	0.61	2.33	18	20
1:B:75:ILE:O	1:B:78:ASP:N	0.61	2.33	18	20
1:A:56:ILE:N	1:A:56:ILE:CD1	0.61	2.59	11	14
1:B:23:GLY:O	1:B:24:LYS:C	0.61	2.38	9	10
1:B:59:ASN:OD1	1:B:59:ASN:O	0.61	2.18	10	5
1:B:24:LYS:NZ	1:B:24:LYS:N	0.61	2.49	4	1
1:B:17:ASN:HD22	1:B:17:ASN:C	0.61	1.98	6	1
1:B:93:GLN:CD	1:B:93:GLN:O	0.61	2.38	19	6
1:B:67:ASN:OD1	1:B:69:LYS:N	0.61	2.33	24	4
1:B:34:ASN:OD1	1:B:84:ILE:O	0.61	2.18	20	3
1:A:29:LEU:N	1:A:29:LEU:CD2	0.61	2.58	11	16
1:B:66:PHE:CD1	1:B:66:PHE:N	0.61	2.67	15	14
1:B:93:GLN:O	1:B:94:ILE:C	0.61	2.39	5	25
1:B:16:VAL:O	1:B:19:LYS:CB	0.61	2.48	3	2
1:B:29:LEU:HB3	1:B:36:LEU:HD11	0.61	1.69	11	3
1:A:89:ILE:O	1:A:90:GLU:CG	0.61	2.48	11	6
1:B:51:ASP:OD2	1:B:67:ASN:ND2	0.61	2.34	19	2
1:B:58:VAL:C	1:B:60:GLY:N	0.61	2.54	6	20
1:A:59:ASN:OD1	1:A:59:ASN:O	0.61	2.18	10	6
1:B:47:ILE:O	1:B:48:SER:C	0.61	2.38	5	10
1:A:24:LYS:N	1:A:24:LYS:NZ	0.61	2.49	4	1
1:A:64:TYR:CE2	1:A:66:PHE:CD1	0.61	2.88	19	3
1:B:81:LYS:C	1:B:81:LYS:CD	0.61	2.69	2	6
1:A:47:ILE:O	1:A:48:SER:C	0.61	2.38	5	10
1:A:13:ILE:CD1	1:A:14:ASN:N	0.61	2.64	4	2
1:A:81:LYS:C	1:A:81:LYS:CD	0.61	2.69	2	6
1:A:16:VAL:O	1:A:19:LYS:CB	0.61	2.48	3	2
1:B:59:ASN:O	1:B:90:GLU:CD	0.61	2.39	13	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:24:LYS:HZ2	1:A:48:SER:CA	0.61	2.08	14	1
1:A:34:ASN:ND2	1:A:86:GLY:CA	0.61	2.63	21	1
1:A:34:ASN:CG	1:A:85:LYS:C	0.61	2.58	21	1
1:A:87:MET:SD	1:B:87:MET:CG	0.61	2.89	25	1
1:A:87:MET:CG	1:B:87:MET:SD	0.61	2.89	25	1
1:A:70:SER:OG	1:A:75:ILE:CD1	0.61	2.46	23	24
1:B:69:LYS:C	1:B:71:THR:N	0.61	2.53	22	20
1:A:58:VAL:HG13	1:A:59:ASN:HD22	0.61	1.55	5	5
1:A:70:SER:O	1:A:71:THR:HG22	0.61	1.94	10	1
1:B:14:ASN:HD22	1:B:14:ASN:N	0.61	1.92	11	3
1:B:47:ILE:O	1:B:48:SER:HB2	0.61	1.94	21	1
1:A:51:ASP:OD2	1:A:67:ASN:ND2	0.61	2.34	19	2
1:A:45:TYR:CD1	1:A:71:THR:CG2	0.61	2.84	17	1
1:A:58:VAL:C	1:A:60:GLY:N	0.61	2.54	4	20
1:A:26:LYS:CG	1:A:26:LYS:O	0.61	2.49	15	5
1:B:58:VAL:HG21	1:B:85:LYS:HE3	0.61	1.73	16	3
1:B:45:TYR:CD1	1:B:71:THR:CG2	0.61	2.83	17	1
1:B:20:LEU:HD21	1:B:66:PHE:CE2	0.61	2.31	19	2
1:A:86:GLY:O	1:A:88:TYR:N	0.61	2.34	24	3
1:B:13:ILE:CD1	1:B:14:ASN:N	0.61	2.64	4	2
1:B:17:ASN:OD1	1:B:29:LEU:O	0.61	2.19	4	3
1:B:80:ASN:HD22	1:B:80:ASN:H	0.61	1.37	5	1
1:A:59:ASN:O	1:A:90:GLU:CD	0.61	2.39	13	3
1:B:59:ASN:N	1:B:88:TYR:O	0.61	2.33	20	2
1:B:70:SER:OG	1:B:75:ILE:CD1	0.60	2.48	5	24
1:B:58:VAL:HG13	1:B:59:ASN:HD22	0.60	1.55	5	5
1:B:93:GLN:O	1:B:93:GLN:OE1	0.60	2.19	4	9
1:A:89:ILE:O	1:A:90:GLU:CD	0.60	2.38	5	4
1:A:51:ASP:OD2	1:A:51:ASP:N	0.60	2.34	20	1
1:B:48:SER:OG	1:B:49:TYR:CE2	0.60	2.54	24	1
1:B:47:ILE:C	1:B:49:TYR:N	0.60	2.54	22	9
1:A:42:ASN:O	1:A:42:ASN:CG	0.60	2.40	8	6
1:B:59:ASN:OD1	1:B:88:TYR:CD1	0.60	2.54	7	2
1:A:58:VAL:HG21	1:A:85:LYS:HE3	0.60	1.73	9	3
1:B:20:LEU:HD21	1:B:54:TRP:CE2	0.60	2.32	9	2
1:A:34:ASN:OD1	1:A:84:ILE:O	0.60	2.18	20	3
1:A:17:ASN:HD21	1:A:29:LEU:CD2	0.60	1.98	18	7
1:A:64:TYR:CE2	1:A:79:ILE:CD1	0.60	2.85	12	9
1:A:17:ASN:OD1	1:A:29:LEU:O	0.60	2.19	4	3
1:B:87:MET:CG	1:B:87:MET:O	0.60	2.46	18	3
1:A:88:TYR:OH	1:A:90:GLU:CG	0.60	2.49	20	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:24:LYS:NZ	1:A:49:TYR:OH	0.60	2.26	25	1
1:A:19:LYS:C	1:A:21:ASN:N	0.60	2.55	5	14
1:B:48:SER:O	1:B:49:TYR:C	0.60	2.39	11	1
1:A:89:ILE:O	1:A:90:GLU:HG3	0.60	1.97	13	2
1:A:29:LEU:N	1:A:29:LEU:HD13	0.60	2.11	19	18
1:A:17:ASN:ND2	1:A:17:ASN:O	0.60	2.35	10	10
1:B:83:ASN:OD1	1:B:83:ASN:O	0.60	2.20	11	4
1:B:86:GLY:O	1:B:88:TYR:N	0.60	2.34	24	3
1:B:89:ILE:O	1:B:90:GLU:OE2	0.60	2.19	24	2
1:A:59:ASN:OD1	1:A:88:TYR:CD1	0.60	2.54	7	2
1:B:82:LEU:HD11	1:B:84:ILE:HG13	0.60	1.72	17	4
1:A:19:LYS:NZ	1:B:93:GLN:NE2	0.60	2.49	18	1
1:B:64:TYR:CE2	1:B:79:ILE:CD1	0.60	2.85	12	9
1:A:55:GLY:C	1:A:62:LYS:HZ1	0.60	2.00	3	1
1:B:69:LYS:O	1:B:71:THR:HG22	0.60	1.96	16	6
1:B:93:GLN:O	1:B:93:GLN:CD	0.60	2.39	5	4
1:A:89:ILE:O	1:A:90:GLU:OE2	0.60	2.19	24	2
1:B:89:ILE:O	1:B:90:GLU:HG3	0.60	1.97	13	2
1:A:50:GLU:O	1:A:52:LYS:N	0.60	2.35	16	1
1:B:26:LYS:H	1:B:42:ASN:HD21	0.60	1.40	25	1
1:B:83:ASN:O	1:B:83:ASN:CG	0.60	2.40	22	17
1:A:69:LYS:O	1:A:71:THR:HG22	0.60	1.96	16	6
1:A:10:MET:H	1:A:13:ILE:CG1	0.60	2.09	9	1
1:A:67:ASN:OD1	1:A:69:LYS:N	0.60	2.35	11	4
1:A:47:ILE:HG21	1:A:68:GLU:HA	0.60	1.74	25	1
1:B:64:TYR:CE1	1:B:79:ILE:CD1	0.60	2.85	23	15
1:A:43:ALA:O	1:A:45:TYR:CE1	0.60	2.55	23	2
1:B:43:ALA:O	1:B:45:TYR:CE1	0.60	2.55	23	2
1:B:13:ILE:HD12	1:B:13:ILE:H	0.60	1.56	13	7
1:B:51:ASP:OD2	1:B:51:ASP:N	0.60	2.34	20	1
1:A:10:MET:C	1:A:12:SER:N	0.60	2.55	23	20
1:A:24:LYS:O	1:A:44:GLY:O	0.60	2.20	2	4
1:B:52:LYS:O	1:B:68:GLU:OE2	0.60	2.20	15	4
1:A:82:LEU:HD11	1:A:84:ILE:HG13	0.60	1.72	17	3
1:A:48:SER:O	1:A:49:TYR:C	0.60	2.39	11	1
1:B:88:TYR:OH	1:B:90:GLU:CG	0.60	2.49	20	2
1:A:59:ASN:ND2	1:A:59:ASN:C	0.59	2.55	4	5
1:B:59:ASN:CB	1:B:88:TYR:CE2	0.59	2.85	19	5
1:B:82:LEU:HD12	1:B:82:LEU:N	0.59	2.12	13	4
1:A:17:ASN:ND2	1:A:29:LEU:CD1	0.59	2.65	11	1
1:A:67:ASN:OD1	1:A:68:GLU:N	0.59	2.34	11	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:56:ILE:C	1:B:57:PHE:CD1	0.59	2.76	18	11
1:A:49:TYR:O	1:A:50:GLU:C	0.59	2.41	10	8
1:A:52:LYS:O	1:A:68:GLU:OE2	0.59	2.21	18	4
1:A:17:ASN:HD22	1:A:17:ASN:C	0.59	1.98	6	1
1:A:20:LEU:HD21	1:A:54:TRP:CE2	0.59	2.31	9	2
1:B:10:MET:H	1:B:13:ILE:CG1	0.59	2.09	9	1
1:B:48:SER:O	1:B:49:TYR:CD1	0.59	2.55	20	1
1:B:24:LYS:O	1:B:44:GLY:O	0.59	2.20	2	4
1:A:56:ILE:C	1:A:57:PHE:CD1	0.59	2.76	18	11
1:B:70:SER:C	1:B:71:THR:HG23	0.59	2.17	4	3
1:A:29:LEU:N	1:A:29:LEU:CD1	0.59	2.49	11	11
1:A:48:SER:O	1:A:49:TYR:CD1	0.59	2.55	20	1
1:B:47:ILE:O	1:B:68:GLU:O	0.59	2.20	21	1
1:A:47:ILE:C	1:A:49:TYR:N	0.59	2.54	22	10
1:B:26:LYS:O	1:B:26:LYS:CG	0.59	2.49	15	7
1:B:42:ASN:O	1:B:42:ASN:CG	0.59	2.40	8	6
1:B:24:LYS:CD	1:B:24:LYS:N	0.59	2.63	9	3
1:A:59:ASN:OD1	1:A:61:GLU:OE2	0.59	2.20	25	1
1:B:55:GLY:C	1:B:62:LYS:HZ1	0.59	2.01	3	1
1:A:80:ASN:HD22	1:A:80:ASN:H	0.59	1.37	5	1
1:A:20:LEU:HD21	1:A:66:PHE:CE2	0.59	2.31	19	2
1:A:47:ILE:O	1:A:68:GLU:O	0.59	2.20	21	1
1:A:48:SER:OG	1:A:49:TYR:CE2	0.59	2.54	24	1
1:A:71:THR:O	1:A:73:GLY:N	0.59	2.35	11	8
1:B:79:ILE:C	1:B:81:LYS:H	0.59	2.01	20	22
1:A:42:ASN:C	1:A:42:ASN:ND2	0.59	2.55	6	1
1:B:42:ASN:C	1:B:42:ASN:ND2	0.59	2.55	6	1
1:A:51:ASP:O	1:A:51:ASP:OD2	0.59	2.21	17	2
1:B:51:ASP:OD2	1:B:67:ASN:OD1	0.59	2.19	10	2
1:B:17:ASN:ND2	1:B:29:LEU:CD1	0.59	2.65	11	1
1:B:59:ASN:ND2	1:B:59:ASN:C	0.59	2.55	4	4
1:B:71:THR:O	1:B:73:GLY:N	0.59	2.35	11	8
1:B:64:TYR:HH	1:B:66:PHE:HD1	0.59	1.31	8	4
1:B:24:LYS:O	1:B:25:GLY:C	0.59	2.41	4	6
1:A:51:ASP:OD2	1:A:67:ASN:OD1	0.59	2.19	10	2
1:A:54:TRP:NE1	1:A:68:GLU:OE2	0.59	2.35	10	1
1:A:34:ASN:O	1:A:84:ILE:CG1	0.59	2.50	13	1
1:B:34:ASN:O	1:B:84:ILE:CG1	0.59	2.50	13	1
1:B:59:ASN:OD1	1:B:61:GLU:OE2	0.59	2.20	25	1
1:A:60:GLY:HA2	1:B:60:GLY:HA2	0.59	1.74	4	5
1:B:77:ASN:O	1:B:80:ASN:CG	0.59	2.41	1	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:79:ILE:C	1:B:81:LYS:N	0.59	2.56	3	24
1:A:64:TYR:CE1	1:A:79:ILE:CD1	0.59	2.85	23	16
1:A:24:LYS:O	1:A:25:GLY:C	0.59	2.41	4	6
1:A:70:SER:C	1:A:71:THR:HG23	0.59	2.17	4	2
1:A:32:ASN:O	1:A:35:GLN:O	0.59	2.21	11	3
1:A:34:ASN:N	1:A:34:ASN:OD1	0.59	2.35	24	2
1:A:59:ASN:O	1:A:90:GLU:OE1	0.59	2.21	23	1
1:B:19:LYS:C	1:B:21:ASN:H	0.59	2.01	5	15
1:B:31:MET:O	1:B:31:MET:SD	0.59	2.61	1	1
1:A:79:ILE:C	1:A:81:LYS:H	0.59	2.01	20	22
1:B:47:ILE:O	1:B:49:TYR:O	0.59	2.20	5	2
1:A:47:ILE:O	1:A:68:GLU:OE2	0.59	2.21	13	1
1:A:45:TYR:CE1	1:A:47:ILE:CG2	0.59	2.86	21	1
1:B:24:LYS:NZ	1:B:48:SER:OG	0.59	2.36	24	1
1:A:83:ASN:O	1:A:83:ASN:ND2	0.59	2.35	2	6
1:B:32:ASN:OD1	1:B:32:ASN:C	0.59	2.41	23	7
1:B:49:TYR:N	1:B:49:TYR:CD1	0.59	2.71	22	3
1:A:51:ASP:C	1:A:67:ASN:HD21	0.59	2.00	7	1
1:B:67:ASN:OD1	1:B:68:GLU:N	0.59	2.35	11	2
1:B:58:VAL:O	1:B:59:ASN:OD1	0.59	2.21	20	1
1:B:47:ILE:HG21	1:B:68:GLU:HA	0.59	1.74	25	1
1:A:19:LYS:C	1:A:21:ASN:H	0.58	2.01	5	15
1:A:31:MET:O	1:A:31:MET:SD	0.58	2.61	1	1
1:A:45:TYR:O	1:A:46:GLY:C	0.58	2.42	12	8
1:A:79:ILE:C	1:A:81:LYS:N	0.58	2.57	8	24
1:B:64:TYR:CE1	1:B:79:ILE:HD11	0.58	2.33	6	15
1:A:83:ASN:O	1:A:83:ASN:CG	0.58	2.41	22	15
1:A:59:ASN:CB	1:A:88:TYR:CE2	0.58	2.85	19	5
1:B:51:ASP:C	1:B:67:ASN:HD21	0.58	2.00	7	1
1:B:45:TYR:CE1	1:B:47:ILE:CG2	0.58	2.86	21	1
1:B:88:TYR:CE2	1:B:90:GLU:OE2	0.58	2.56	24	1
1:B:34:ASN:OD1	1:B:34:ASN:N	0.58	2.35	24	3
1:A:64:TYR:CE2	1:A:79:ILE:HG13	0.58	2.33	19	16
1:B:17:ASN:ND2	1:B:17:ASN:O	0.58	2.35	10	10
1:A:42:ASN:N	1:A:42:ASN:HD22	0.58	1.96	3	1
1:B:32:ASN:O	1:B:35:GLN:O	0.58	2.21	11	3
1:B:51:ASP:O	1:B:51:ASP:OD2	0.58	2.21	17	2
1:A:24:LYS:CG	1:A:48:SER:O	0.58	2.51	10	1
1:A:58:VAL:O	1:A:59:ASN:OD1	0.58	2.21	20	1
1:A:30:SER:N	1:A:37:LYS:O	0.58	2.37	20	25
1:B:27:LEU:HD11	1:B:38:ALA:HB1	0.58	1.74	21	16

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:TYR:N	1:A:49:TYR:CD1	0.58	2.71	22	4
1:B:71:THR:O	1:B:71:THR:OG1	0.58	2.21	6	6
1:A:83:ASN:O	1:A:83:ASN:OD1	0.58	2.20	11	5
1:A:17:ASN:O	1:A:21:ASN:OD1	0.58	2.22	14	2
1:B:50:GLU:O	1:B:52:LYS:N	0.58	2.35	16	1
1:B:33:GLY:O	1:B:34:ASN:CB	0.58	2.52	20	1
1:A:83:ASN:OD1	1:A:83:ASN:O	0.58	2.21	5	3
1:B:52:LYS:C	1:B:67:ASN:ND2	0.58	2.56	7	4
1:A:47:ILE:O	1:A:49:TYR:O	0.58	2.20	5	2
1:A:21:ASN:O	1:A:24:LYS:CE	0.58	2.51	12	1
1:A:45:TYR:CD2	1:A:47:ILE:CD1	0.58	2.86	13	2
1:A:42:ASN:CG	1:A:42:ASN:O	0.58	2.42	14	2
1:A:13:ILE:H	1:A:13:ILE:CD1	0.58	2.05	1	5
1:A:44:GLY:O	1:A:47:ILE:CG1	0.58	2.51	19	2
1:A:77:ASN:O	1:A:80:ASN:CG	0.58	2.41	1	5
1:B:30:SER:N	1:B:37:LYS:O	0.58	2.37	20	25
1:B:49:TYR:N	1:B:49:TYR:CD2	0.58	2.68	5	3
1:B:45:TYR:O	1:B:46:GLY:C	0.58	2.42	12	8
1:B:10:MET:SD	1:B:14:ASN:ND2	0.58	2.77	3	1
1:B:14:ASN:O	1:B:15:SER:C	0.58	2.42	3	8
1:A:22:LYS:H	1:A:24:LYS:NZ	0.58	1.96	6	1
1:B:83:ASN:O	1:B:83:ASN:OD1	0.58	2.22	9	4
1:A:10:MET:CE	1:A:86:GLY:O	0.58	2.52	9	1
1:B:21:ASN:O	1:B:24:LYS:CE	0.58	2.51	12	1
1:B:45:TYR:CD2	1:B:47:ILE:CD1	0.58	2.86	13	2
1:A:93:GLN:NE2	1:B:19:LYS:NZ	0.58	2.51	18	1
1:B:58:VAL:C	1:B:60:GLY:H	0.58	2.02	4	9
1:B:89:ILE:O	1:B:90:GLU:HG2	0.58	1.99	11	18
1:A:52:LYS:C	1:A:67:ASN:ND2	0.58	2.56	7	4
1:B:66:PHE:CD2	1:B:66:PHE:N	0.58	2.71	9	2
1:B:56:ILE:HD12	1:B:56:ILE:N	0.58	2.13	12	2
1:A:20:LEU:O	1:A:49:TYR:OH	0.58	2.18	24	1
1:B:19:LYS:C	1:B:21:ASN:N	0.58	2.55	5	14
1:B:44:GLY:O	1:B:47:ILE:CG1	0.58	2.51	19	2
1:B:56:ILE:HD11	1:B:66:PHE:HE2	0.58	1.59	14	4
1:B:76:SER:O	1:B:80:ASN:OD1	0.58	2.22	6	2
1:A:11:ASN:OD1	1:A:11:ASN:O	0.58	2.21	13	2
1:A:82:LEU:N	1:A:82:LEU:HD12	0.58	2.12	13	2
1:B:17:ASN:O	1:B:21:ASN:OD1	0.58	2.21	19	2
1:A:88:TYR:CE2	1:A:90:GLU:OE2	0.58	2.56	24	1
1:A:32:ASN:OD1	1:A:32:ASN:C	0.58	2.41	23	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:10:MET:C	1:B:12:SER:N	0.58	2.55	23	20
1:A:26:LYS:HD3	1:A:41:SER:O	0.58	1.98	4	2
1:A:32:ASN:O	1:A:35:GLN:OE1	0.58	2.21	20	2
1:A:90:GLU:OE1	1:A:91:ILE:O	0.58	2.21	20	2
1:B:90:GLU:OE1	1:B:91:ILE:O	0.58	2.21	20	2
1:A:85:LYS:O	1:A:86:GLY:O	0.58	2.22	22	1
1:B:59:ASN:O	1:B:90:GLU:OE1	0.58	2.21	23	1
1:A:27:LEU:HD11	1:A:38:ALA:HB1	0.58	1.74	21	16
1:B:65:THR:O	1:B:65:THR:CG2	0.58	2.52	19	13
1:A:65:THR:CG2	1:A:65:THR:O	0.58	2.52	11	7
1:B:32:ASN:O	1:B:35:GLN:OE1	0.58	2.21	20	2
1:B:22:LYS:H	1:B:24:LYS:NZ	0.58	1.96	6	1
1:A:66:PHE:CD2	1:A:66:PHE:N	0.58	2.71	9	2
1:B:54:TRP:NE1	1:B:68:GLU:OE2	0.58	2.35	10	1
1:A:49:TYR:O	1:A:52:LYS:CE	0.58	2.52	13	2
1:B:47:ILE:O	1:B:68:GLU:OE2	0.58	2.21	13	1
1:B:42:ASN:CG	1:B:42:ASN:O	0.58	2.42	14	2
1:A:59:ASN:O	1:A:59:ASN:OD1	0.58	2.22	25	2
1:A:45:TYR:CE2	1:A:71:THR:CG2	0.58	2.87	23	1
1:A:21:ASN:O	1:A:21:ASN:OD1	0.57	2.22	4	1
1:B:10:MET:CE	1:B:86:GLY:O	0.57	2.52	9	1
1:A:33:GLY:O	1:A:34:ASN:CB	0.57	2.52	20	1
1:A:58:VAL:C	1:A:60:GLY:H	0.57	2.02	4	10
1:A:64:TYR:CE1	1:A:79:ILE:HG13	0.57	2.33	18	9
1:B:18:ASP:O	1:B:21:ASN:O	0.57	2.22	6	5
1:A:64:TYR:CE1	1:A:79:ILE:HD11	0.57	2.33	6	15
1:B:49:TYR:O	1:B:50:GLU:C	0.57	2.41	10	9
1:B:24:LYS:CG	1:B:48:SER:O	0.57	2.51	10	1
1:B:59:ASN:O	1:B:59:ASN:CG	0.57	2.43	11	5
1:A:21:ASN:OD1	1:A:27:LEU:O	0.57	2.23	13	1
1:A:59:ASN:OD1	1:A:90:GLU:OE2	0.57	2.22	13	1
1:B:49:TYR:O	1:B:52:LYS:CE	0.57	2.52	13	2
1:B:59:ASN:O	1:B:59:ASN:OD1	0.57	2.22	25	2
1:A:24:LYS:NZ	1:A:48:SER:OG	0.57	2.36	24	1
1:B:64:TYR:CE1	1:B:79:ILE:HG13	0.57	2.33	18	9
1:A:10:MET:SD	1:A:14:ASN:ND2	0.57	2.77	3	1
1:B:54:TRP:CD1	1:B:54:TRP:N	0.57	2.72	7	2
1:A:59:ASN:O	1:A:59:ASN:CG	0.57	2.43	11	5
1:B:21:ASN:OD1	1:B:21:ASN:O	0.57	2.23	18	2
1:A:26:LYS:H	1:A:42:ASN:HD21	0.57	1.39	25	1
1:B:49:TYR:CD1	1:B:49:TYR:N	0.57	2.72	7	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:55:GLY:C	1:B:57:PHE:CE2	0.57	2.77	23	5
1:A:88:TYR:CE1	1:A:89:ILE:O	0.57	2.58	23	2
1:B:22:LYS:O	1:B:23:GLY:C	0.57	2.42	18	1
1:B:26:LYS:H	1:B:26:LYS:HD3	0.57	1.58	1	6
1:B:78:ASP:O	1:B:81:LYS:N	0.57	2.35	23	11
1:A:87:MET:CE	1:B:87:MET:SD	0.57	2.92	12	1
1:B:53:ASN:ND2	1:B:67:ASN:ND2	0.57	2.52	15	1
1:B:88:TYR:CE1	1:B:89:ILE:O	0.57	2.58	23	2
1:A:71:THR:O	1:A:71:THR:HG23	0.57	1.99	18	1
1:A:22:LYS:C	1:A:24:LYS:H	0.57	2.03	23	1
1:B:45:TYR:CE2	1:B:71:THR:CG2	0.57	2.87	23	1
1:B:20:LEU:HD21	1:B:66:PHE:CZ	0.57	2.35	12	15
1:B:61:GLU:C	1:B:62:LYS:O	0.57	2.42	14	24
1:A:59:ASN:ND2	1:A:61:GLU:HB2	0.57	2.15	11	13
1:A:58:VAL:HG12	1:A:63:VAL:HB	0.57	1.76	18	18
1:B:26:LYS:HD3	1:B:41:SER:O	0.57	1.98	4	2
1:A:55:GLY:C	1:A:57:PHE:CE2	0.57	2.77	23	5
1:A:12:SER:OG	1:A:86:GLY:O	0.57	2.20	8	1
1:A:54:TRP:CD1	1:A:68:GLU:OE1	0.57	2.58	10	2
1:A:24:LYS:NZ	1:A:68:GLU:OE1	0.57	2.37	12	1
1:B:82:LEU:HD13	1:B:84:ILE:HG23	0.57	1.75	13	1
1:A:21:ASN:OD1	1:A:21:ASN:O	0.57	2.23	18	2
1:B:71:THR:O	1:B:71:THR:HG23	0.57	1.99	18	1
1:A:18:ASP:O	1:A:21:ASN:O	0.57	2.22	6	5
1:B:64:TYR:CE2	1:B:79:ILE:HG13	0.57	2.33	19	16
1:A:21:ASN:OD1	1:A:21:ASN:C	0.57	2.43	18	4
1:A:87:MET:SD	1:B:87:MET:CE	0.57	2.93	12	1
1:B:11:ASN:OD1	1:B:11:ASN:O	0.57	2.21	13	2
1:B:46:GLY:O	1:B:49:TYR:O	0.57	2.23	22	3
1:B:45:TYR:CD1	1:B:45:TYR:O	0.57	2.57	17	1
1:A:20:LEU:HD21	1:A:66:PHE:CZ	0.57	2.35	12	15
1:A:22:LYS:O	1:A:23:GLY:C	0.57	2.42	18	1
1:B:32:ASN:O	1:B:35:GLN:N	0.57	2.34	22	8
1:B:21:ASN:CG	1:B:22:LYS:H	0.57	2.03	3	5
1:B:56:ILE:C	1:B:63:VAL:HG12	0.57	2.20	9	11
1:A:45:TYR:CD1	1:A:45:TYR:O	0.57	2.57	17	1
1:A:61:GLU:C	1:A:62:LYS:O	0.57	2.42	14	22
1:B:13:ILE:HD13	1:B:14:ASN:N	0.57	2.15	4	2
1:A:50:GLU:HB2	1:A:52:LYS:HZ3	0.57	1.60	6	1
1:A:76:SER:O	1:A:80:ASN:OD1	0.57	2.22	6	2
1:A:13:ILE:O	1:A:17:ASN:CB	0.57	2.53	25	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:49:TYR:O	1:A:52:LYS:CD	0.57	2.52	25	1
1:B:49:TYR:O	1:B:52:LYS:CD	0.57	2.52	25	1
1:B:58:VAL:HG12	1:B:63:VAL:HB	0.56	1.75	3	18
1:B:81:LYS:O	1:B:81:LYS:CE	0.56	2.53	6	1
1:A:34:ASN:OD1	1:A:85:LYS:C	0.56	2.43	21	1
1:B:22:LYS:C	1:B:24:LYS:H	0.56	2.03	23	1
1:A:93:GLN:NE2	1:A:93:GLN:N	0.56	2.53	21	15
1:B:45:TYR:HB3	1:B:47:ILE:HD11	0.56	1.75	20	2
1:B:54:TRP:CD1	1:B:68:GLU:OE1	0.56	2.58	10	2
1:B:59:ASN:OD1	1:B:90:GLU:OE2	0.56	2.22	13	1
1:A:56:ILE:HA	1:B:91:ILE:HG23	0.56	1.77	10	3
1:A:89:ILE:O	1:A:90:GLU:HG2	0.56	1.99	11	18
1:B:59:ASN:ND2	1:B:61:GLU:HB2	0.56	2.15	11	12
1:A:56:ILE:C	1:A:63:VAL:HG12	0.56	2.20	9	11
1:B:93:GLN:O	1:B:94:ILE:O	0.56	2.23	17	5
1:A:18:ASP:O	1:A:21:ASN:OD1	0.56	2.23	4	2
1:B:21:ASN:O	1:B:21:ASN:OD1	0.56	2.22	4	1
1:B:13:ILE:O	1:B:17:ASN:CB	0.56	2.53	25	5
1:B:32:ASN:OD1	1:B:34:ASN:OD1	0.56	2.24	11	1
1:A:82:LEU:HD13	1:A:84:ILE:HG23	0.56	1.75	13	1
1:B:21:ASN:OD1	1:B:27:LEU:O	0.56	2.23	13	1
1:A:53:ASN:ND2	1:A:67:ASN:ND2	0.56	2.52	15	1
1:A:48:SER:C	1:A:49:TYR:CD2	0.56	2.79	20	1
1:B:23:GLY:N	1:B:49:TYR:CE2	0.56	2.74	21	1
1:B:34:ASN:OD1	1:B:85:LYS:C	0.56	2.43	21	1
1:B:85:LYS:O	1:B:86:GLY:O	0.56	2.22	22	1
1:B:14:ASN:N	1:B:14:ASN:ND2	0.56	2.53	11	5
1:A:46:GLY:O	1:A:49:TYR:O	0.56	2.23	22	4
1:B:45:TYR:CD1	1:B:47:ILE:CG2	0.56	2.86	21	1
1:A:27:LEU:HD21	1:A:29:LEU:HD11	0.56	1.76	12	6
1:A:49:TYR:CD1	1:A:49:TYR:N	0.56	2.73	2	4
1:A:51:ASP:OD1	1:A:51:ASP:C	0.56	2.44	1	3
1:A:61:GLU:O	1:A:62:LYS:C	0.56	2.43	14	24
1:B:13:ILE:H	1:B:13:ILE:CD1	0.56	2.11	13	4
1:B:27:LEU:HD21	1:B:29:LEU:HD11	0.56	1.76	12	6
1:A:21:ASN:CG	1:A:22:LYS:H	0.56	2.03	3	6
1:B:18:ASP:O	1:B:21:ASN:OD1	0.56	2.23	4	2
1:B:24:LYS:H	1:B:24:LYS:HZ3	0.56	1.42	4	1
1:A:80:ASN:N	1:A:80:ASN:ND2	0.56	2.54	5	1
1:B:24:LYS:NZ	1:B:49:TYR:OH	0.56	2.26	25	2
1:A:54:TRP:CD1	1:A:54:TRP:N	0.56	2.72	7	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:56:ILE:HD11	1:A:66:PHE:HE2	0.56	1.59	14	4
1:A:93:GLN:O	1:A:94:ILE:O	0.56	2.23	17	5
1:B:21:ASN:OD1	1:B:21:ASN:C	0.56	2.43	18	3
1:A:68:GLU:OE1	1:A:68:GLU:CA	0.56	2.54	7	1
1:A:89:ILE:HG13	1:B:89:ILE:HG13	0.56	1.77	25	5
1:B:32:ASN:C	1:B:34:ASN:H	0.56	2.04	20	1
1:B:48:SER:C	1:B:49:TYR:CD2	0.56	2.79	20	1
1:B:10:MET:C	1:B:12:SER:H	0.56	2.04	23	15
1:B:62:LYS:HZ2	1:B:64:TYR:H	0.56	1.43	1	1
1:A:52:LYS:C	1:A:67:ASN:HD22	0.56	2.04	7	1
1:B:82:LEU:CD1	1:B:82:LEU:C	0.56	2.73	1	4
1:A:45:TYR:HB3	1:A:47:ILE:HD11	0.56	1.75	20	2
1:B:10:MET:O	1:B:10:MET:SD	0.56	2.64	18	2
1:A:33:GLY:C	1:A:34:ASN:OD1	0.56	2.44	5	2
1:B:57:PHE:CD2	1:B:62:LYS:HA	0.56	2.36	15	6
1:B:80:ASN:N	1:B:80:ASN:ND2	0.56	2.54	5	1
1:B:36:LEU:HD23	1:B:80:ASN:ND2	0.56	2.10	13	2
1:B:52:LYS:C	1:B:67:ASN:HD22	0.56	2.04	7	1
1:A:49:TYR:CD2	1:A:68:GLU:OE1	0.56	2.59	8	2
1:B:16:VAL:CG1	1:B:20:LEU:HD12	0.56	2.31	9	1
1:A:62:LYS:HZ2	1:A:64:TYR:H	0.56	1.42	1	1
1:A:14:ASN:O	1:A:15:SER:C	0.56	2.42	3	8
1:A:57:PHE:CD2	1:A:62:LYS:HA	0.56	2.36	15	6
1:B:59:ASN:CB	1:B:88:TYR:CE1	0.56	2.89	5	4
1:A:24:LYS:CE	1:A:49:TYR:CE1	0.56	2.89	6	1
1:A:19:LYS:HZ1	1:B:93:GLN:HG3	0.56	1.61	17	2
1:B:34:ASN:CB	1:B:85:LYS:C	0.56	2.75	25	2
1:A:54:TRP:CG	1:A:66:PHE:CE2	0.56	2.94	19	1
1:A:23:GLY:N	1:A:49:TYR:CE2	0.56	2.74	21	1
1:A:13:ILE:HD13	1:A:14:ASN:N	0.56	2.15	4	2
1:B:43:ALA:C	1:B:45:TYR:N	0.56	2.59	25	6
1:B:49:TYR:CD2	1:B:68:GLU:OE1	0.56	2.59	8	1
1:A:32:ASN:O	1:A:35:GLN:N	0.55	2.34	22	8
1:A:64:TYR:CD1	1:A:79:ILE:HD12	0.55	2.37	14	12
1:B:12:SER:C	1:B:14:ASN:N	0.55	2.58	5	7
1:B:24:LYS:H	1:B:24:LYS:HD2	0.55	1.62	2	3
1:A:10:MET:O	1:A:10:MET:SD	0.55	2.64	18	2
1:B:22:LYS:O	1:B:49:TYR:CB	0.55	2.54	5	1
1:B:45:TYR:CB	1:B:47:ILE:HD11	0.55	2.31	20	1
1:B:51:ASP:C	1:B:51:ASP:OD1	0.55	2.44	1	2
1:B:64:TYR:CD1	1:B:79:ILE:HD12	0.55	2.36	14	12

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:10:MET:SD	1:B:10:MET:N	0.55	2.80	4	3
1:B:68:GLU:OE1	1:B:68:GLU:CA	0.55	2.54	7	1
1:A:11:ASN:OD1	1:A:14:ASN:OD1	0.55	2.24	23	1
1:A:77:ASN:OD1	1:A:77:ASN:C	0.55	2.45	11	9
1:A:14:ASN:N	1:A:14:ASN:ND2	0.55	2.53	11	4
1:B:17:ASN:C	1:B:17:ASN:HD22	0.55	2.05	20	4
1:B:76:SER:O	1:B:80:ASN:CG	0.55	2.45	7	5
1:A:81:LYS:O	1:A:81:LYS:CE	0.55	2.53	6	1
1:A:23:GLY:O	1:A:49:TYR:CE2	0.55	2.59	10	1
1:B:48:SER:OG	1:B:68:GLU:CG	0.55	2.54	10	1
1:B:24:LYS:CB	1:B:47:ILE:CD1	0.55	2.84	14	1
1:A:64:TYR:CZ	1:A:66:PHE:CE2	0.55	2.95	15	1
1:A:91:ILE:HG23	1:B:56:ILE:HA	0.55	1.78	10	3
1:B:33:GLY:C	1:B:34:ASN:OD1	0.55	2.44	5	2
1:B:56:ILE:O	1:B:57:PHE:CD1	0.55	2.60	18	1
1:B:58:VAL:HG13	1:B:59:ASN:OD1	0.55	2.02	20	1
1:A:26:LYS:C	1:A:40:SER:HG	0.55	2.04	12	2
1:A:17:ASN:C	1:A:17:ASN:HD22	0.55	2.04	20	4
1:B:34:ASN:OD1	1:B:86:GLY:C	0.55	2.45	7	1
1:B:47:ILE:HG21	1:B:68:GLU:C	0.55	2.22	10	1
1:B:46:GLY:O	1:B:68:GLU:O	0.55	2.24	13	2
1:B:83:ASN:C	1:B:83:ASN:ND2	0.55	2.60	14	1
1:A:17:ASN:HD21	1:A:29:LEU:HD21	0.55	1.60	15	1
1:A:11:ASN:O	1:A:11:ASN:ND2	0.55	2.39	1	3
1:B:75:ILE:O	1:B:76:SER:C	0.55	2.45	15	25
1:A:16:VAL:HG11	1:B:91:ILE:HD11	0.55	1.79	2	1
1:A:71:THR:O	1:A:72:VAL:C	0.55	2.45	22	16
1:A:22:LYS:O	1:A:49:TYR:CB	0.55	2.54	5	1
1:A:47:ILE:HG21	1:A:68:GLU:C	0.55	2.22	10	1
1:A:48:SER:OG	1:A:68:GLU:CG	0.55	2.54	10	1
1:A:46:GLY:H	1:A:47:ILE:CD1	0.55	2.15	13	1
1:B:89:ILE:C	1:B:90:GLU:OE1	0.55	2.45	13	3
1:A:32:ASN:C	1:A:34:ASN:H	0.55	2.04	20	1
1:A:58:VAL:HG13	1:A:59:ASN:OD1	0.55	2.02	20	1
1:A:76:SER:OG	1:A:80:ASN:ND2	0.55	2.39	22	2
1:B:76:SER:OG	1:B:80:ASN:ND2	0.55	2.39	22	2
1:B:30:SER:HB3	1:B:37:LYS:HZ3	0.55	1.61	23	1
1:A:51:ASP:CG	1:A:67:ASN:OD1	0.55	2.45	14	3
1:B:29:LEU:N	1:B:29:LEU:CD2	0.55	2.57	8	16
1:B:77:ASN:OD1	1:B:77:ASN:C	0.55	2.46	23	9
1:A:59:ASN:CB	1:A:88:TYR:CE1	0.55	2.89	5	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:24:LYS:CE	1:B:49:TYR:CE1	0.55	2.89	6	1
1:B:12:SER:OG	1:B:86:GLY:O	0.55	2.20	8	1
1:A:82:LEU:HD11	1:A:84:ILE:HG23	0.55	1.78	20	3
1:B:54:TRP:CG	1:B:66:PHE:CE2	0.55	2.94	19	1
1:A:10:MET:C	1:A:12:SER:H	0.55	2.04	23	16
1:A:75:ILE:O	1:A:76:SER:C	0.55	2.45	6	25
1:B:71:THR:O	1:B:72:VAL:C	0.55	2.45	22	16
1:A:42:ASN:C	1:A:44:GLY:N	0.55	2.60	13	6
1:B:24:LYS:NZ	1:B:68:GLU:OE1	0.55	2.37	12	1
1:A:34:ASN:CB	1:A:85:LYS:C	0.55	2.74	25	2
1:A:24:LYS:CB	1:A:47:ILE:CD1	0.55	2.84	14	1
1:B:17:ASN:HD21	1:B:29:LEU:HD21	0.55	1.60	15	1
1:A:45:TYR:CD1	1:A:47:ILE:CG2	0.55	2.86	21	1
1:A:36:LEU:O	1:A:80:ASN:OD1	0.55	2.24	15	2
1:A:32:ASN:OD1	1:A:34:ASN:OD1	0.55	2.24	11	1
1:A:89:ILE:C	1:A:90:GLU:OE1	0.55	2.45	13	3
1:A:26:LYS:O	1:A:40:SER:HA	0.55	2.02	23	10
1:A:29:LEU:HA	1:A:38:ALA:HB2	0.55	1.79	5	24
1:B:10:MET:O	1:B:13:ILE:N	0.55	2.40	9	8
1:B:51:ASP:CG	1:B:67:ASN:OD1	0.55	2.45	14	3
1:B:82:LEU:O	1:B:83:ASN:C	0.55	2.46	13	5
1:A:88:TYR:O	1:B:89:ILE:CG2	0.55	2.55	18	9
1:B:42:ASN:C	1:B:44:GLY:N	0.55	2.60	6	6
1:A:49:TYR:N	1:A:49:TYR:CD2	0.55	2.74	8	3
1:A:47:ILE:CD1	1:A:47:ILE:N	0.55	2.69	9	4
1:A:34:ASN:OD1	1:A:86:GLY:C	0.55	2.45	7	1
1:A:66:PHE:CD1	1:A:66:PHE:N	0.55	2.75	18	4
1:A:45:TYR:CB	1:A:47:ILE:HD11	0.55	2.32	20	1
1:B:93:GLN:NE2	1:B:93:GLN:N	0.54	2.52	20	16
1:B:22:LYS:O	1:B:48:SER:CB	0.54	2.55	13	1
1:B:64:TYR:CZ	1:B:66:PHE:CE2	0.54	2.95	15	1
1:B:48:SER:OG	1:B:49:TYR:CZ	0.54	2.60	24	1
1:B:11:ASN:ND2	1:B:11:ASN:O	0.54	2.40	1	3
1:A:24:LYS:H	1:A:24:LYS:HD2	0.54	1.62	2	3
1:A:43:ALA:C	1:A:45:TYR:N	0.54	2.59	25	9
1:B:50:GLU:HB2	1:B:52:LYS:HZ3	0.54	1.60	6	1
1:B:36:LEU:O	1:B:80:ASN:OD1	0.54	2.24	15	2
1:B:23:GLY:O	1:B:49:TYR:CE2	0.54	2.59	10	1
1:A:46:GLY:O	1:A:68:GLU:O	0.54	2.24	13	2
1:A:30:SER:HB3	1:A:37:LYS:HZ3	0.54	1.62	23	1
1:A:91:ILE:HD11	1:B:16:VAL:HG11	0.54	1.78	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:76:SER:O	1:A:80:ASN:CG	0.54	2.45	7	5
1:A:52:LYS:CB	1:B:94:ILE:HG21	0.54	2.32	10	1
1:B:82:LEU:HD11	1:B:84:ILE:HG23	0.54	1.78	20	3
1:A:24:LYS:C	1:A:46:GLY:H	0.54	2.06	17	1
1:A:56:ILE:O	1:A:57:PHE:CD1	0.54	2.60	18	1
1:A:70:SER:O	1:A:71:THR:OG1	0.54	2.25	24	1
1:B:70:SER:O	1:B:71:THR:OG1	0.54	2.25	24	1
1:B:34:ASN:O	1:B:83:ASN:C	0.54	2.46	1	1
1:A:78:ASP:O	1:A:81:LYS:N	0.54	2.36	15	8
1:A:36:LEU:HD23	1:A:80:ASN:ND2	0.54	2.10	13	2
1:A:69:LYS:NZ	1:A:69:LYS:CB	0.54	2.71	11	1
1:B:70:SER:HG	1:B:75:ILE:HD11	0.54	1.61	17	5
1:A:22:LYS:O	1:A:48:SER:CB	0.54	2.55	13	1
1:B:24:LYS:C	1:B:46:GLY:H	0.54	2.06	17	1
1:A:84:ILE:HD13	1:A:84:ILE:H	0.54	1.62	19	3
1:B:84:ILE:HD13	1:B:84:ILE:H	0.54	1.62	19	3
1:B:24:LYS:N	1:B:24:LYS:HZ3	0.54	1.99	4	1
1:A:81:LYS:CD	1:A:81:LYS:C	0.54	2.76	11	5
1:A:16:VAL:CG1	1:A:20:LEU:HD12	0.54	2.31	9	1
1:B:61:GLU:O	1:B:62:LYS:C	0.54	2.46	1	24
1:A:94:ILE:CG2	1:B:53:ASN:O	0.54	2.56	16	13
1:A:83:ASN:OD1	1:A:83:ASN:C	0.54	2.46	24	3
1:B:81:LYS:CD	1:B:81:LYS:C	0.54	2.76	11	5
1:A:56:ILE:HD11	1:A:66:PHE:HE1	0.54	1.62	17	3
1:A:82:LEU:CD1	1:A:82:LEU:C	0.54	2.75	13	2
1:A:34:ASN:O	1:A:83:ASN:C	0.54	2.45	1	1
1:A:57:PHE:CE2	1:A:62:LYS:HD2	0.54	2.37	12	10
1:A:82:LEU:O	1:A:83:ASN:C	0.54	2.46	13	5
1:B:26:LYS:O	1:B:40:SER:HA	0.54	2.02	23	10
1:B:57:PHE:CE2	1:B:62:LYS:HD2	0.54	2.37	12	10
1:A:89:ILE:CG2	1:B:88:TYR:O	0.54	2.56	18	9
1:B:93:GLN:H	1:B:93:GLN:HE21	0.54	1.44	6	6
1:B:69:LYS:NZ	1:B:69:LYS:CB	0.54	2.71	11	1
1:A:83:ASN:C	1:A:83:ASN:ND2	0.54	2.60	14	1
1:A:56:ILE:HD13	1:A:64:TYR:CD1	0.54	2.38	1	1
1:B:26:LYS:N	1:B:26:LYS:HD2	0.54	2.17	1	3
1:B:66:PHE:CD2	1:B:72:VAL:CG1	0.54	2.91	5	9
1:B:56:ILE:HD11	1:B:66:PHE:HE1	0.54	1.61	6	3
1:B:46:GLY:H	1:B:47:ILE:CD1	0.54	2.15	13	1
1:A:66:PHE:CD2	1:A:72:VAL:CG1	0.54	2.91	5	9
1:B:24:LYS:N	1:B:24:LYS:HD2	0.54	2.18	16	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:59:ASN:HB3	1:B:88:TYR:CD2	0.54	2.38	14	8
1:B:23:GLY:CA	1:B:49:TYR:OH	0.54	2.56	14	1
1:B:59:ASN:ND2	1:B:61:GLU:OE2	0.54	2.41	15	2
1:B:59:ASN:C	1:B:90:GLU:OE1	0.54	2.46	17	1
1:B:79:ILE:O	1:B:84:ILE:CD1	0.54	2.56	23	1
1:A:93:GLN:H	1:A:93:GLN:HE21	0.54	1.46	5	6
1:B:67:ASN:OD1	1:B:67:ASN:C	0.54	2.46	11	3
1:B:36:LEU:HD23	1:B:80:ASN:OD1	0.54	2.03	25	2
1:B:11:ASN:OD1	1:B:14:ASN:OD1	0.54	2.24	23	1
1:A:72:VAL:O	1:A:73:GLY:C	0.53	2.47	12	25
1:B:27:LEU:CD1	1:B:38:ALA:HB1	0.53	2.33	1	18
1:A:14:ASN:C	1:A:16:VAL:N	0.53	2.60	3	2
1:B:41:SER:O	1:B:42:ASN:C	0.53	2.46	8	7
1:A:50:GLU:C	1:A:51:ASP:OD2	0.53	2.46	9	1
1:B:37:LYS:HZ2	1:B:37:LYS:HB2	0.53	1.63	18	1
1:A:47:ILE:HD12	1:A:48:SER:H	0.53	1.62	10	1
1:A:20:LEU:CD2	1:A:54:TRP:CD2	0.53	2.91	11	1
1:A:59:ASN:C	1:A:90:GLU:OE1	0.53	2.46	17	1
1:A:48:SER:OG	1:A:49:TYR:CZ	0.53	2.60	24	1
1:A:58:VAL:O	1:A:59:ASN:C	0.53	2.46	25	7
1:B:56:ILE:O	1:B:57:PHE:HD2	0.53	1.86	15	1
1:B:43:ALA:O	1:B:71:THR:OG1	0.53	2.27	22	1
1:A:51:ASP:CG	1:A:51:ASP:O	0.53	2.46	6	1
1:B:20:LEU:CD2	1:B:54:TRP:CD2	0.53	2.91	11	1
1:B:45:TYR:C	1:B:45:TYR:CD2	0.53	2.82	11	1
1:A:36:LEU:HD23	1:A:80:ASN:OD1	0.53	2.04	25	2
1:B:29:LEU:HA	1:B:38:ALA:HB2	0.53	1.78	5	24
1:A:58:VAL:HG23	1:A:85:LYS:HD3	0.53	1.81	3	1
1:A:24:LYS:HE3	1:A:47:ILE:N	0.53	2.19	14	1
1:A:56:ILE:O	1:A:57:PHE:HD2	0.53	1.86	15	1
1:B:70:SER:O	1:B:71:THR:C	0.53	2.47	23	11
1:A:23:GLY:CA	1:A:49:TYR:OH	0.53	2.56	14	1
1:B:34:ASN:OD1	1:B:85:LYS:CA	0.53	2.56	21	1
1:A:79:ILE:O	1:A:84:ILE:CD1	0.53	2.56	23	1
1:A:27:LEU:CD1	1:A:38:ALA:HB1	0.53	2.33	1	18
1:B:56:ILE:HD13	1:B:64:TYR:CD1	0.53	2.38	1	1
1:A:53:ASN:O	1:B:94:ILE:CG2	0.53	2.57	17	13
1:B:66:PHE:CD1	1:B:72:VAL:CG1	0.53	2.92	25	7
1:A:56:ILE:CG2	1:A:63:VAL:CG1	0.53	2.86	5	5
1:B:51:ASP:CG	1:B:51:ASP:O	0.53	2.46	6	1
1:B:52:LYS:O	1:B:68:GLU:CD	0.53	2.47	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:54:TRP:CH2	1:B:93:GLN:CB	0.53	2.91	18	4
1:B:83:ASN:C	1:B:83:ASN:OD1	0.53	2.46	24	1
1:A:88:TYR:OH	1:B:12:SER:OG	0.53	2.26	25	1
1:A:65:THR:O	1:A:65:THR:HG23	0.53	2.04	11	7
1:A:66:PHE:CD1	1:A:72:VAL:CG1	0.53	2.92	25	7
1:B:14:ASN:C	1:B:16:VAL:N	0.53	2.60	3	2
1:B:50:GLU:C	1:B:51:ASP:OD2	0.53	2.46	9	1
1:A:59:ASN:ND2	1:A:61:GLU:OE2	0.53	2.41	15	2
1:A:43:ALA:O	1:A:71:THR:OG1	0.53	2.27	22	1
1:B:34:ASN:N	1:B:34:ASN:OD1	0.53	2.40	22	1
1:A:26:LYS:N	1:A:26:LYS:HD2	0.53	2.17	1	3
1:A:45:TYR:O	1:A:45:TYR:CG	0.53	2.62	19	5
1:A:12:SER:C	1:A:14:ASN:N	0.53	2.58	5	7
1:B:40:SER:OG	1:B:73:GLY:C	0.53	2.48	5	1
1:A:67:ASN:C	1:A:69:LYS:H	0.53	2.07	10	2
1:A:67:ASN:O	1:A:69:LYS:N	0.53	2.42	10	3
1:B:67:ASN:C	1:B:69:LYS:H	0.53	2.07	10	1
1:B:67:ASN:O	1:B:69:LYS:N	0.53	2.42	10	3
1:A:67:ASN:OD1	1:A:67:ASN:C	0.53	2.46	11	3
1:B:27:LEU:HD12	1:B:39:THR:O	0.53	2.04	21	4
1:A:19:LYS:HZ2	1:B:93:GLN:NE2	0.53	2.02	18	1
1:A:10:MET:O	1:A:13:ILE:N	0.53	2.40	9	8
1:B:72:VAL:O	1:B:73:GLY:C	0.53	2.46	12	25
1:A:41:SER:O	1:A:42:ASN:C	0.53	2.46	8	7
1:A:75:ILE:C	1:A:77:ASN:H	0.53	2.07	24	6
1:A:27:LEU:HD12	1:A:39:THR:O	0.53	2.04	17	4
1:A:24:LYS:N	1:A:24:LYS:HD2	0.52	2.18	16	4
1:A:59:ASN:HB3	1:A:88:TYR:CD2	0.52	2.39	11	8
1:B:34:ASN:ND2	1:B:34:ASN:N	0.52	2.57	4	2
1:A:80:ASN:ND2	1:A:80:ASN:H	0.52	2.00	5	1
1:B:58:VAL:O	1:B:59:ASN:C	0.52	2.47	14	5
1:B:47:ILE:HD12	1:B:48:SER:H	0.52	1.62	10	1
1:A:88:TYR:CE1	1:A:90:GLU:HG2	0.52	2.39	11	1
1:A:34:ASN:OD1	1:A:85:LYS:CA	0.52	2.56	21	1
1:B:65:THR:O	1:B:65:THR:HG23	0.52	2.04	1	8
1:A:34:ASN:N	1:A:34:ASN:ND2	0.52	2.57	4	1
1:A:59:ASN:HB3	1:A:88:TYR:CE2	0.52	2.39	19	3
1:B:56:ILE:CG2	1:B:63:VAL:CG1	0.52	2.86	5	5
1:B:80:ASN:ND2	1:B:80:ASN:H	0.52	2.00	5	1
1:B:64:TYR:CE2	1:B:79:ILE:HD11	0.52	2.39	25	8
1:B:24:LYS:HE3	1:B:47:ILE:N	0.52	2.19	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:47:ILE:CD1	1:B:47:ILE:N	0.52	2.69	9	3
1:B:59:ASN:HB3	1:B:88:TYR:CE2	0.52	2.39	19	3
1:B:82:LEU:C	1:B:83:ASN:HD22	0.52	2.08	22	1
1:B:20:LEU:CD2	1:B:66:PHE:CZ	0.52	2.92	1	6
1:B:58:VAL:O	1:B:59:ASN:CG	0.52	2.48	1	8
1:B:58:VAL:HG22	1:B:59:ASN:N	0.52	2.20	19	8
1:B:26:LYS:HB2	1:B:26:LYS:HZ2	0.52	1.63	12	1
1:A:47:ILE:O	1:A:68:GLU:CD	0.52	2.48	13	1
1:A:59:ASN:C	1:A:59:ASN:HD22	0.52	2.07	23	3
1:A:82:LEU:C	1:A:83:ASN:HD22	0.52	2.08	22	1
1:B:82:LEU:HD13	1:B:83:ASN:N	0.52	2.20	23	1
1:A:36:LEU:CD1	1:A:37:LYS:N	0.52	2.71	15	9
1:A:58:VAL:O	1:A:59:ASN:CG	0.52	2.48	1	8
1:A:94:ILE:CG2	1:B:68:GLU:OE1	0.52	2.58	3	1
1:B:11:ASN:O	1:B:13:ILE:CD1	0.52	2.58	4	2
1:B:24:LYS:HZ2	1:B:24:LYS:HA	0.52	1.64	4	1
1:A:42:ASN:O	1:A:43:ALA:C	0.52	2.47	18	4
1:A:45:TYR:C	1:A:45:TYR:CD2	0.52	2.82	11	1
1:B:58:VAL:HG12	1:B:61:GLU:O	0.52	2.04	14	1
1:B:88:TYR:OH	1:B:90:GLU:OE2	0.52	2.27	19	1
1:B:47:ILE:CG1	1:B:48:SER:H	0.52	2.17	21	1
1:A:10:MET:SD	1:A:12:SER:CB	0.52	2.97	6	1
1:A:53:ASN:ND2	1:A:53:ASN:N	0.52	2.49	10	1
1:A:94:ILE:HG21	1:B:52:LYS:CB	0.52	2.34	10	2
1:A:88:TYR:CD2	1:A:89:ILE:N	0.52	2.78	20	2
1:B:88:TYR:CD2	1:B:89:ILE:N	0.52	2.78	20	2
1:B:85:LYS:O	1:B:86:GLY:C	0.52	2.47	22	1
1:A:52:LYS:H	1:A:68:GLU:CG	0.52	2.17	23	1
1:B:36:LEU:CD1	1:B:37:LYS:N	0.52	2.72	10	10
1:B:47:ILE:HD12	1:B:69:LYS:HA	0.52	1.81	4	1
1:A:59:ASN:HB2	1:A:88:TYR:CE2	0.52	2.40	17	6
1:B:10:MET:SD	1:B:12:SER:CB	0.52	2.97	6	1
1:B:59:ASN:C	1:B:59:ASN:HD22	0.52	2.07	22	3
1:A:59:ASN:C	1:A:90:GLU:CD	0.52	2.68	17	2
1:B:23:GLY:C	1:B:46:GLY:H	0.52	2.08	23	1
1:A:64:TYR:CD2	1:A:79:ILE:HD12	0.52	2.40	21	8
1:A:58:VAL:HG22	1:A:59:ASN:N	0.52	2.20	19	8
1:A:68:GLU:OE1	1:B:94:ILE:CG2	0.52	2.58	3	1
1:B:51:ASP:OD2	1:B:51:ASP:C	0.52	2.48	21	3
1:A:56:ILE:C	1:A:57:PHE:HD2	0.52	2.07	23	3
1:A:34:ASN:OD1	1:A:34:ASN:O	0.52	2.28	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:52:LYS:H	1:B:68:GLU:CG	0.52	2.17	23	1
1:A:88:TYR:CZ	1:A:90:GLU:HG3	0.52	2.40	22	11
1:B:88:TYR:CZ	1:B:90:GLU:HG3	0.52	2.40	22	12
1:A:40:SER:OG	1:A:73:GLY:C	0.52	2.48	5	1
1:A:58:VAL:C	1:A:59:ASN:CG	0.52	2.69	21	4
1:B:67:ASN:ND2	1:B:68:GLU:H	0.52	2.03	24	2
1:B:13:ILE:HD13	1:B:14:ASN:ND2	0.52	2.20	16	4
1:A:88:TYR:OH	1:A:90:GLU:OE2	0.52	2.27	19	1
1:A:85:LYS:O	1:A:86:GLY:C	0.52	2.47	22	1
1:A:20:LEU:CD2	1:A:66:PHE:CZ	0.52	2.92	1	6
1:A:64:TYR:CD1	1:A:79:ILE:CD1	0.52	2.93	14	7
1:B:58:VAL:HG23	1:B:85:LYS:HD3	0.52	1.81	3	1
1:A:17:ASN:ND2	1:A:29:LEU:HG	0.52	2.20	15	3
1:A:24:LYS:HZ3	1:A:46:GLY:HA2	0.52	1.64	8	1
1:B:57:PHE:CE1	1:B:62:LYS:HD2	0.52	2.40	9	3
1:B:42:ASN:ND2	1:B:42:ASN:C	0.52	2.64	16	1
1:B:59:ASN:C	1:B:90:GLU:CD	0.52	2.68	17	2
1:B:40:SER:OG	1:B:43:ALA:HB3	0.52	2.05	20	1
1:B:20:LEU:CD1	1:B:54:TRP:CZ3	0.52	2.93	25	1
1:A:56:ILE:CD1	1:A:66:PHE:CE1	0.51	2.93	18	4
1:B:78:ASP:O	1:B:81:LYS:CB	0.51	2.58	21	13
1:A:11:ASN:O	1:A:13:ILE:CD1	0.51	2.58	4	2
1:A:52:LYS:O	1:A:68:GLU:CD	0.51	2.47	7	1
1:A:67:ASN:ND2	1:A:68:GLU:H	0.51	2.03	24	2
1:B:58:VAL:C	1:B:59:ASN:CG	0.51	2.69	21	4
1:A:64:TYR:CE2	1:A:79:ILE:HD11	0.51	2.39	25	8
1:B:47:ILE:O	1:B:68:GLU:CD	0.51	2.48	13	1
1:A:45:TYR:CG	1:A:47:ILE:HD12	0.51	2.41	21	1
1:B:64:TYR:CD1	1:B:79:ILE:CD1	0.51	2.93	14	7
1:A:13:ILE:HD12	1:A:13:ILE:N	0.51	2.21	18	2
1:B:42:ASN:O	1:B:43:ALA:C	0.51	2.47	18	4
1:B:64:TYR:OH	1:B:75:ILE:HG22	0.51	2.05	13	5
1:B:34:ASN:O	1:B:83:ASN:OD1	0.51	2.28	11	1
1:A:49:TYR:CB	1:A:68:GLU:OE2	0.51	2.59	21	2
1:A:79:ILE:O	1:A:80:ASN:C	0.51	2.49	1	2
1:B:45:TYR:O	1:B:45:TYR:CD2	0.51	2.64	12	2
1:A:10:MET:SD	1:A:10:MET:N	0.51	2.83	16	3
1:B:17:ASN:ND2	1:B:29:LEU:HG	0.51	2.20	15	3
1:B:59:ASN:HB3	1:B:88:TYR:CE1	0.51	2.40	9	6
1:A:34:ASN:O	1:A:83:ASN:OD1	0.51	2.28	11	1
1:A:42:ASN:ND2	1:A:42:ASN:C	0.51	2.64	16	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:34:ASN:OD1	1:B:34:ASN:O	0.51	2.28	20	1
1:A:56:ILE:HG22	1:A:63:VAL:HG11	0.51	1.82	1	11
1:B:79:ILE:O	1:B:80:ASN:C	0.51	2.49	1	3
1:A:70:SER:O	1:A:71:THR:C	0.51	2.47	23	11
1:B:54:TRP:CD1	1:B:68:GLU:CD	0.51	2.84	10	1
1:A:58:VAL:HG12	1:A:61:GLU:O	0.51	2.04	14	1
1:A:47:ILE:CG1	1:A:48:SER:H	0.51	2.17	21	1
1:A:23:GLY:C	1:A:46:GLY:H	0.51	2.08	23	1
1:A:71:THR:OG1	1:A:71:THR:O	0.51	2.28	24	1
1:B:42:ASN:O	1:B:42:ASN:OD1	0.51	2.28	25	1
1:A:45:TYR:O	1:A:45:TYR:CD2	0.51	2.64	12	2
1:B:56:ILE:CD1	1:B:66:PHE:CE1	0.51	2.93	18	4
1:A:47:ILE:HD12	1:A:69:LYS:HA	0.51	1.81	4	1
1:B:13:ILE:CD1	1:B:13:ILE:H	0.51	2.18	23	7
1:A:51:ASP:OD2	1:A:51:ASP:C	0.51	2.48	21	3
1:A:26:LYS:O	1:A:26:LYS:CG	0.51	2.58	14	2
1:A:13:ILE:HD13	1:A:14:ASN:ND2	0.51	2.20	16	4
1:A:20:LEU:CD1	1:A:54:TRP:CZ3	0.51	2.93	25	1
1:B:56:ILE:N	1:B:56:ILE:CD1	0.51	2.69	2	15
1:B:59:ASN:HB2	1:B:88:TYR:CE2	0.51	2.40	17	6
1:A:54:TRP:CD1	1:A:68:GLU:CD	0.51	2.84	10	1
1:B:79:ILE:HG22	1:B:84:ILE:HD11	0.51	1.83	23	1
1:A:66:PHE:HD2	1:A:66:PHE:H	0.51	1.48	7	5
1:A:64:TYR:OH	1:A:75:ILE:HG22	0.51	2.05	13	4
1:B:49:TYR:CB	1:B:68:GLU:OE2	0.51	2.59	21	2
1:A:42:ASN:O	1:A:42:ASN:OD1	0.51	2.28	25	1
1:B:64:TYR:CD2	1:B:79:ILE:HD12	0.51	2.40	21	8
1:B:56:ILE:N	1:B:62:LYS:HZ2	0.51	2.03	3	1
1:A:34:ASN:OD1	1:A:34:ASN:N	0.51	2.40	15	2
1:A:65:THR:HG23	1:A:65:THR:O	0.51	2.04	1	2
1:A:65:THR:O	1:A:65:THR:CG2	0.51	2.58	12	6
1:B:26:LYS:CE	1:B:43:ALA:HB3	0.51	2.35	7	4
1:B:56:ILE:HG22	1:B:63:VAL:HG11	0.51	1.82	14	8
1:A:49:TYR:CB	1:A:52:LYS:NZ	0.51	2.74	3	1
1:A:88:TYR:CD1	1:A:89:ILE:N	0.51	2.79	23	3
1:B:23:GLY:CA	1:B:46:GLY:H	0.51	2.19	15	1
1:B:27:LEU:CG	1:B:29:LEU:HD11	0.51	2.36	18	11
1:A:57:PHE:O	1:B:90:GLU:O	0.51	2.29	2	4
1:A:78:ASP:O	1:A:81:LYS:CB	0.51	2.58	10	12
1:A:26:LYS:CE	1:A:43:ALA:HB3	0.50	2.35	24	4
1:A:36:LEU:HB3	1:A:84:ILE:HD13	0.50	1.82	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:84:ILE:H	1:A:84:ILE:CD1	0.50	2.19	19	2
1:A:57:PHE:CE1	1:A:62:LYS:HD2	0.50	2.41	9	3
1:B:81:LYS:C	1:B:83:ASN:H	0.50	2.09	10	3
1:B:88:TYR:CE1	1:B:90:GLU:HG2	0.50	2.39	11	1
1:B:29:LEU:CD2	1:B:29:LEU:N	0.50	2.66	17	1
1:A:27:LEU:CG	1:A:29:LEU:HD11	0.50	2.37	18	11
1:B:21:ASN:O	1:B:23:GLY:N	0.50	2.45	5	1
1:A:23:GLY:H	1:A:24:LYS:HZ1	0.50	1.50	6	1
1:B:23:GLY:H	1:B:24:LYS:HZ1	0.50	1.47	6	1
1:B:36:LEU:HB3	1:B:84:ILE:HD13	0.50	1.82	6	1
1:A:21:ASN:O	1:A:22:LYS:CB	0.50	2.59	7	2
1:B:21:ASN:O	1:B:22:LYS:CB	0.50	2.59	7	2
1:A:17:ASN:CG	1:A:29:LEU:O	0.50	2.50	13	1
1:B:88:TYR:CD1	1:B:89:ILE:N	0.50	2.79	23	3
1:B:34:ASN:ND2	1:B:86:GLY:C	0.50	2.65	20	1
1:A:34:ASN:CB	1:A:84:ILE:O	0.50	2.60	1	1
1:A:29:LEU:CD2	1:A:29:LEU:N	0.50	2.64	2	1
1:B:59:ASN:OD1	1:B:61:GLU:OE1	0.50	2.29	2	1
1:B:69:LYS:O	1:B:71:THR:CG2	0.50	2.59	14	11
1:A:59:ASN:HB3	1:A:88:TYR:CE1	0.50	2.42	5	6
1:B:41:SER:O	1:B:42:ASN:CB	0.50	2.59	18	3
1:A:21:ASN:O	1:A:24:LYS:NZ	0.50	2.44	12	1
1:A:24:LYS:CG	1:A:47:ILE:HD12	0.50	2.37	14	1
1:A:10:MET:SD	1:B:89:ILE:HD13	0.50	2.46	25	1
1:B:20:LEU:HD12	1:B:54:TRP:CZ3	0.50	2.42	25	1
1:B:45:TYR:O	1:B:45:TYR:CG	0.50	2.63	9	5
1:B:51:ASP:OD1	1:B:67:ASN:OD1	0.50	2.30	17	3
1:B:75:ILE:C	1:B:77:ASN:H	0.50	2.07	24	5
1:A:64:TYR:CD2	1:A:79:ILE:CD1	0.50	2.95	18	3
1:A:23:GLY:CA	1:A:46:GLY:H	0.50	2.19	15	1
1:A:40:SER:OG	1:A:43:ALA:HB3	0.50	2.05	20	1
1:B:24:LYS:CE	1:B:48:SER:HA	0.50	2.36	21	1
1:B:45:TYR:CG	1:B:47:ILE:HD12	0.50	2.41	21	1
1:A:82:LEU:O	1:A:82:LEU:HD13	0.50	2.06	23	1
1:A:51:ASP:OD1	1:A:67:ASN:OD1	0.50	2.30	17	3
1:A:93:GLN:O	1:A:93:GLN:CG	0.50	2.60	2	13
1:B:34:ASN:CB	1:B:84:ILE:O	0.50	2.60	1	1
1:B:84:ILE:H	1:B:84:ILE:CD1	0.50	2.19	19	3
1:A:10:MET:O	1:A:13:ILE:HD12	0.50	2.05	9	1
1:B:17:ASN:CG	1:B:29:LEU:O	0.50	2.50	13	1
1:A:18:ASP:C	1:A:21:ASN:OD1	0.50	2.50	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:21:ASN:HA	1:B:24:LYS:NZ	0.50	2.22	21	1
1:A:36:LEU:C	1:A:37:LYS:CG	0.50	2.80	12	20
1:B:93:GLN:O	1:B:93:GLN:CG	0.50	2.59	8	13
1:B:10:MET:SD	1:B:12:SER:N	0.50	2.83	11	1
1:B:18:ASP:C	1:B:21:ASN:OD1	0.50	2.50	19	1
1:A:56:ILE:HG23	1:B:91:ILE:HG22	0.50	1.83	20	1
1:A:45:TYR:CD1	1:A:47:ILE:HG13	0.50	2.42	24	1
1:B:72:VAL:HA	1:B:75:ILE:HD12	0.50	1.84	11	13
1:A:59:ASN:OD1	1:A:61:GLU:OE1	0.50	2.29	2	1
1:B:12:SER:C	1:B:14:ASN:H	0.50	2.10	14	5
1:B:57:PHE:CE2	1:B:62:LYS:HD3	0.50	2.40	15	7
1:A:69:LYS:O	1:A:71:THR:CG2	0.50	2.59	14	11
1:B:64:TYR:OH	1:B:75:ILE:HB	0.50	2.07	14	7
1:B:40:SER:OG	1:B:41:SER:N	0.50	2.43	11	1
1:B:66:PHE:N	1:B:66:PHE:HD2	0.50	2.04	14	3
1:A:13:ILE:CD1	1:A:13:ILE:H	0.50	2.19	25	4
1:A:70:SER:O	1:A:71:THR:CG2	0.50	2.60	10	1
1:A:64:TYR:OH	1:A:75:ILE:HG21	0.50	2.07	17	10
1:B:36:LEU:C	1:B:37:LYS:CG	0.50	2.80	12	20
1:A:58:VAL:HG21	1:A:85:LYS:HB2	0.50	1.83	18	2
1:B:49:TYR:CB	1:B:52:LYS:NZ	0.50	2.74	3	1
1:A:41:SER:O	1:A:42:ASN:CB	0.50	2.59	18	3
1:B:56:ILE:C	1:B:57:PHE:HD2	0.50	2.07	23	3
1:A:93:GLN:HG3	1:B:19:LYS:HZ1	0.50	1.67	17	1
1:A:24:LYS:CG	1:A:48:SER:H	0.50	2.20	20	1
1:A:13:ILE:O	1:A:17:ASN:N	0.50	2.40	22	1
1:A:79:ILE:HG22	1:A:84:ILE:HD11	0.50	1.83	23	1
1:A:20:LEU:HD12	1:A:54:TRP:CZ3	0.50	2.42	25	1
1:A:89:ILE:HD13	1:B:10:MET:SD	0.50	2.46	25	1
1:B:24:LYS:N	1:B:24:LYS:HD3	0.49	2.23	12	5
1:A:44:GLY:O	1:A:71:THR:HG21	0.49	2.07	16	4
1:B:10:MET:O	1:B:13:ILE:HD12	0.49	2.05	9	1
1:A:52:LYS:H	1:A:68:GLU:HB2	0.49	1.67	10	1
1:A:81:LYS:C	1:A:83:ASN:H	0.49	2.09	10	2
1:A:24:LYS:HG3	1:A:47:ILE:HD12	0.49	1.84	14	1
1:B:24:LYS:CG	1:B:48:SER:H	0.49	2.20	20	1
1:A:51:ASP:OD2	1:A:51:ASP:O	0.49	2.29	21	1
1:B:59:ASN:HB3	1:B:88:TYR:CD1	0.49	2.43	5	7
1:A:16:VAL:O	1:A:20:LEU:N	0.49	2.45	15	3
1:A:64:TYR:OH	1:A:75:ILE:HB	0.49	2.07	14	8
1:B:47:ILE:CD1	1:B:47:ILE:H	0.49	2.18	14	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:47:ILE:CG2	1:B:68:GLU:C	0.49	2.81	10	1
1:B:24:LYS:CG	1:B:47:ILE:HD12	0.49	2.37	14	1
1:A:24:LYS:HG2	1:A:48:SER:H	0.49	1.67	20	1
1:A:21:ASN:HA	1:A:24:LYS:NZ	0.49	2.22	21	1
1:A:62:LYS:HZ2	1:A:65:THR:CB	0.49	2.20	24	1
1:A:57:PHE:CE2	1:A:62:LYS:HD3	0.49	2.40	15	7
1:A:58:VAL:HG21	1:A:85:LYS:CG	0.49	2.37	14	4
1:A:91:ILE:HG13	1:B:16:VAL:HG11	0.49	1.84	6	1
1:A:10:MET:SD	1:A:12:SER:N	0.49	2.83	11	1
1:A:23:GLY:HA2	1:A:46:GLY:CA	0.49	2.38	15	1
1:A:42:ASN:O	1:A:45:TYR:CB	0.49	2.60	18	1
1:A:34:ASN:ND2	1:A:86:GLY:C	0.49	2.65	20	1
1:A:24:LYS:CE	1:A:48:SER:HA	0.49	2.36	21	1
1:B:45:TYR:CD1	1:B:47:ILE:HG13	0.49	2.42	24	1
1:B:58:VAL:HG21	1:B:85:LYS:HB2	0.49	1.83	2	2
1:B:78:ASP:O	1:B:79:ILE:C	0.49	2.51	23	14
1:B:58:VAL:HG21	1:B:85:LYS:CG	0.49	2.37	14	4
1:B:44:GLY:O	1:B:71:THR:HG21	0.49	2.07	16	3
1:B:67:ASN:C	1:B:69:LYS:N	0.49	2.65	10	3
1:A:11:ASN:ND2	1:A:14:ASN:OD1	0.49	2.45	17	1
1:A:93:GLN:CB	1:B:54:TRP:CH2	0.49	2.95	18	3
1:B:70:SER:HB3	1:B:75:ILE:HD11	0.49	1.82	18	1
1:A:24:LYS:N	1:A:46:GLY:HA3	0.49	2.23	5	1
1:A:47:ILE:CD1	1:A:47:ILE:H	0.49	2.18	14	3
1:A:47:ILE:CG2	1:A:68:GLU:C	0.49	2.81	10	1
1:A:67:ASN:C	1:A:69:LYS:N	0.49	2.65	10	2
1:A:23:GLY:CA	1:A:46:GLY:N	0.49	2.76	15	1
1:B:24:LYS:HG2	1:B:48:SER:H	0.49	1.67	20	1
1:A:48:SER:C	1:A:49:TYR:CD1	0.49	2.86	21	1
1:A:82:LEU:O	1:A:83:ASN:ND2	0.49	2.46	22	1
1:A:59:ASN:HB3	1:A:88:TYR:CD1	0.49	2.42	5	7
1:A:16:VAL:O	1:A:17:ASN:C	0.49	2.49	8	16
1:A:13:ILE:HD12	1:A:14:ASN:N	0.49	2.22	9	1
1:A:59:ASN:CB	1:A:88:TYR:CD2	0.49	2.96	11	4
1:A:59:ASN:CB	1:A:90:GLU:OE2	0.49	2.61	13	2
1:A:56:ILE:CD1	1:A:64:TYR:O	0.49	2.61	21	2
1:B:59:ASN:HB2	1:B:88:TYR:CD2	0.49	2.43	23	2
1:A:10:MET:O	1:A:13:ILE:HG12	0.49	2.08	7	5
1:A:21:ASN:O	1:A:23:GLY:N	0.49	2.45	5	1
1:B:83:ASN:OD1	1:B:83:ASN:C	0.49	2.51	5	2
1:B:13:ILE:HD12	1:B:14:ASN:N	0.49	2.22	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:64:TYR:CD2	1:B:79:ILE:CD1	0.49	2.96	10	3
1:B:45:TYR:O	1:B:47:ILE:HG12	0.49	2.07	18	1
1:B:51:ASP:OD2	1:B:51:ASP:O	0.49	2.29	21	1
1:A:10:MET:O	1:A:11:ASN:C	0.49	2.51	9	13
1:B:64:TYR:OH	1:B:75:ILE:HG21	0.49	2.07	5	11
1:A:78:ASP:O	1:A:79:ILE:C	0.49	2.51	23	15
1:A:24:LYS:CA	1:A:24:LYS:HE2	0.49	2.38	3	1
1:A:24:LYS:CE	1:A:49:TYR:CE2	0.49	2.96	3	1
1:A:40:SER:OG	1:A:41:SER:N	0.49	2.43	11	1
1:B:42:ASN:OD1	1:B:71:THR:OG1	0.49	2.23	17	1
1:A:80:ASN:OD1	1:A:81:LYS:N	0.49	2.46	1	1
1:A:15:SER:O	1:A:19:LYS:N	0.49	2.46	14	6
1:B:23:GLY:CA	1:B:46:GLY:HA3	0.49	2.38	18	2
1:A:16:VAL:HG11	1:B:91:ILE:HG13	0.49	1.84	6	1
1:A:23:GLY:C	1:A:24:LYS:HZ1	0.49	2.09	8	1
1:A:21:ASN:CG	1:A:27:LEU:O	0.49	2.50	13	1
1:B:59:ASN:CB	1:B:90:GLU:OE2	0.49	2.60	13	2
1:B:42:ASN:O	1:B:45:TYR:CB	0.49	2.60	18	1
1:A:72:VAL:HA	1:A:75:ILE:HD12	0.49	1.84	11	12
1:A:90:GLU:O	1:B:57:PHE:O	0.49	2.30	2	3
1:B:24:LYS:HZ3	1:B:46:GLY:HA2	0.49	1.68	8	1
1:B:23:GLY:CA	1:B:46:GLY:N	0.49	2.76	15	1
1:A:70:SER:HB3	1:A:75:ILE:HD11	0.49	1.81	18	1
1:B:56:ILE:CD1	1:B:64:TYR:O	0.49	2.61	21	2
1:B:34:ASN:CG	1:B:84:ILE:O	0.49	2.51	20	2
1:A:59:ASN:HB2	1:A:88:TYR:CE1	0.48	2.43	16	5
1:A:23:GLY:CA	1:A:46:GLY:HA3	0.48	2.38	18	2
1:B:17:ASN:HD22	1:B:29:LEU:HG	0.48	1.68	5	1
1:B:52:LYS:H	1:B:68:GLU:HB2	0.48	1.67	10	1
1:B:13:ILE:O	1:B:17:ASN:N	0.48	2.40	22	1
1:A:82:LEU:HD13	1:A:83:ASN:N	0.48	2.20	23	1
1:B:45:TYR:CE2	1:B:47:ILE:HD11	0.48	2.43	23	1
1:A:77:ASN:O	1:A:80:ASN:OD1	0.48	2.31	1	2
1:B:10:MET:O	1:B:13:ILE:HG12	0.48	2.08	19	4
1:B:16:VAL:O	1:B:17:ASN:C	0.48	2.49	8	17
1:B:66:PHE:H	1:B:66:PHE:HD2	0.48	1.48	7	5
1:B:23:GLY:HA2	1:B:46:GLY:CA	0.48	2.38	15	1
1:B:24:LYS:HD2	1:B:24:LYS:H	0.48	1.68	16	1
1:B:34:ASN:ND2	1:B:86:GLY:N	0.48	2.61	21	2
1:A:45:TYR:CE2	1:A:47:ILE:HD11	0.48	2.43	23	1
1:B:24:LYS:CE	1:B:49:TYR:CE2	0.48	2.96	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:ASN:HD22	1:A:29:LEU:HG	0.48	1.68	5	1
1:A:70:SER:O	1:A:71:THR:CB	0.48	2.61	10	1
1:A:13:ILE:N	1:A:13:ILE:HD13	0.48	2.23	11	1
1:A:59:ASN:HB2	1:A:90:GLU:OE2	0.48	2.08	13	2
1:A:50:GLU:O	1:A:52:LYS:CG	0.48	2.61	16	1
1:A:89:ILE:C	1:A:90:GLU:CG	0.48	2.81	17	2
1:B:82:LEU:O	1:B:83:ASN:ND2	0.48	2.46	22	1
1:A:59:ASN:HB2	1:A:88:TYR:CD2	0.48	2.43	23	2
1:B:27:LEU:CD1	1:B:29:LEU:CD1	0.48	2.91	3	13
1:B:80:ASN:OD1	1:B:81:LYS:N	0.48	2.46	1	1
1:B:24:LYS:N	1:B:46:GLY:HA3	0.48	2.23	5	1
1:B:59:ASN:CB	1:B:88:TYR:CD2	0.48	2.96	11	4
1:A:26:LYS:HB2	1:A:26:LYS:HZ2	0.48	1.68	12	1
1:B:21:ASN:O	1:B:24:LYS:NZ	0.48	2.44	12	1
1:A:45:TYR:O	1:A:47:ILE:HG12	0.48	2.07	18	1
1:A:45:TYR:CD2	1:A:71:THR:HB	0.48	2.43	23	1
1:A:64:TYR:CE1	1:A:66:PHE:HD1	0.48	2.26	23	1
1:B:67:ASN:ND2	1:B:68:GLU:N	0.48	2.62	24	1
1:A:12:SER:C	1:A:14:ASN:H	0.48	2.10	14	5
1:A:34:ASN:ND2	1:A:86:GLY:N	0.48	2.62	21	2
1:A:34:ASN:CG	1:A:84:ILE:O	0.48	2.51	20	2
1:B:48:SER:C	1:B:49:TYR:CD1	0.48	2.86	21	1
1:A:66:PHE:N	1:A:66:PHE:HD2	0.48	2.04	14	2
1:B:12:SER:O	1:B:13:ILE:C	0.48	2.52	5	1
1:B:89:ILE:H	1:B:89:ILE:CD1	0.48	2.11	7	2
1:B:13:ILE:N	1:B:13:ILE:HD13	0.48	2.23	11	1
1:B:71:THR:C	1:B:73:GLY:N	0.48	2.67	11	5
1:B:45:TYR:CD1	1:B:71:THR:HB	0.48	2.44	18	2
1:B:50:GLU:O	1:B:52:LYS:CG	0.48	2.61	16	1
1:B:11:ASN:ND2	1:B:14:ASN:OD1	0.48	2.46	17	1
1:A:67:ASN:O	1:A:68:GLU:C	0.48	2.52	18	1
1:B:45:TYR:O	1:B:47:ILE:HG13	0.48	2.08	2	2
1:A:63:VAL:HG22	1:A:63:VAL:O	0.48	2.08	17	7
1:B:23:GLY:C	1:B:46:GLY:CA	0.48	2.82	4	2
1:A:26:LYS:N	1:A:42:ASN:HD21	0.48	2.06	25	1
1:B:26:LYS:N	1:B:42:ASN:HD21	0.48	2.06	25	1
1:B:62:LYS:NZ	1:B:64:TYR:H	0.48	2.07	1	1
1:A:24:LYS:N	1:A:24:LYS:HD3	0.48	2.24	19	5
1:A:19:LYS:NZ	1:B:93:GLN:CG	0.48	2.77	17	2
1:B:26:LYS:HE3	1:B:43:ALA:HB3	0.48	1.84	17	1
1:A:25:GLY:N	1:A:45:TYR:O	0.48	2.47	21	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:64:TYR:CE1	1:B:66:PHE:HD1	0.48	2.26	23	1
1:B:21:ASN:O	1:B:22:LYS:C	0.48	2.51	10	1
1:B:24:LYS:NZ	1:B:48:SER:HB3	0.48	2.23	14	1
1:A:67:ASN:ND2	1:A:68:GLU:N	0.48	2.62	24	1
1:B:85:LYS:HZ3	1:B:85:LYS:HB2	0.48	1.68	1	1
1:A:45:TYR:O	1:A:47:ILE:HG13	0.48	2.08	2	2
1:B:63:VAL:HG22	1:B:63:VAL:O	0.48	2.08	17	7
1:B:64:TYR:OH	1:B:75:ILE:CB	0.48	2.62	14	7
1:A:21:ASN:O	1:A:22:LYS:C	0.48	2.51	10	1
1:B:59:ASN:HB2	1:B:90:GLU:OE2	0.48	2.08	13	2
1:A:24:LYS:HD2	1:A:24:LYS:H	0.48	1.68	16	1
1:B:18:ASP:O	1:B:22:LYS:CG	0.48	2.62	16	2
1:B:10:MET:N	1:B:10:MET:CE	0.48	2.77	21	1
1:B:10:MET:O	1:B:11:ASN:C	0.47	2.53	1	15
1:A:56:ILE:HA	1:B:91:ILE:HG22	0.47	1.86	2	2
1:B:55:GLY:C	1:B:57:PHE:CE1	0.47	2.88	21	5
1:A:56:ILE:CD1	1:A:64:TYR:CD2	0.47	2.97	5	1
1:A:24:LYS:HE2	1:A:49:TYR:CE1	0.47	2.44	6	1
1:B:70:SER:O	1:B:71:THR:CG2	0.47	2.60	10	1
1:A:92:LYS:HG2	1:B:55:GLY:N	0.47	2.24	16	3
1:B:21:ASN:CG	1:B:27:LEU:O	0.47	2.50	13	1
1:A:82:LEU:CD1	1:A:84:ILE:N	0.47	2.77	23	1
1:B:34:ASN:HB3	1:B:85:LYS:C	0.47	2.29	25	1
1:B:34:ASN:CA	1:B:84:ILE:O	0.47	2.62	1	1
1:B:59:ASN:HB2	1:B:88:TYR:CE1	0.47	2.44	16	5
1:B:24:LYS:CA	1:B:24:LYS:HE2	0.47	2.38	3	1
1:A:24:LYS:HE3	1:A:49:TYR:CZ	0.47	2.45	4	3
1:A:20:LEU:CD2	1:A:54:TRP:CE2	0.47	2.97	9	2
1:B:20:LEU:CD2	1:B:54:TRP:CE2	0.47	2.97	9	2
1:B:57:PHE:CE1	1:B:62:LYS:CD	0.47	2.97	9	2
1:B:89:ILE:C	1:B:90:GLU:CG	0.47	2.81	17	2
1:B:64:TYR:CD2	1:B:79:ILE:CG2	0.47	2.97	23	2
1:B:22:LYS:C	1:B:24:LYS:N	0.47	2.67	23	1
1:A:47:ILE:C	1:A:48:SER:OG	0.47	2.53	24	1
1:B:67:ASN:CG	1:B:69:LYS:H	0.47	2.11	24	1
1:A:34:ASN:CA	1:A:84:ILE:O	0.47	2.62	1	1
1:A:66:PHE:HD1	1:A:66:PHE:H	0.47	1.53	5	6
1:A:23:GLY:C	1:A:46:GLY:CA	0.47	2.82	4	2
1:A:54:TRP:O	1:A:65:THR:HG23	0.47	2.09	15	2
1:B:16:VAL:O	1:B:20:LEU:N	0.47	2.45	15	3
1:B:70:SER:O	1:B:71:THR:CB	0.47	2.61	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:23:GLY:CA	1:A:24:LYS:HD3	0.47	2.39	14	1
1:B:24:LYS:HG3	1:B:47:ILE:HD12	0.47	1.84	14	1
1:A:45:TYR:CD1	1:A:71:THR:HB	0.47	2.44	18	2
1:A:34:ASN:HB3	1:A:85:LYS:C	0.47	2.30	25	1
1:A:62:LYS:NZ	1:A:64:TYR:H	0.47	2.07	1	1
1:A:59:ASN:CB	1:A:88:TYR:CD1	0.47	2.97	2	1
1:B:50:GLU:C	1:B:51:ASP:OD1	0.47	2.53	7	1
1:B:51:ASP:OD1	1:B:51:ASP:C	0.47	2.53	13	1
1:A:26:LYS:HE3	1:A:43:ALA:HB3	0.47	1.84	17	1
1:A:64:TYR:CD1	1:A:79:ILE:CG2	0.47	2.98	21	1
1:B:45:TYR:CD2	1:B:71:THR:HB	0.47	2.43	23	1
1:A:67:ASN:CG	1:A:69:LYS:H	0.47	2.11	24	1
1:B:23:GLY:HA3	1:B:47:ILE:N	0.47	2.25	25	1
1:A:36:LEU:O	1:A:80:ASN:CB	0.47	2.63	1	4
1:B:36:LEU:O	1:B:80:ASN:CB	0.47	2.63	1	4
1:A:55:GLY:C	1:A:57:PHE:CE1	0.47	2.87	10	5
1:B:24:LYS:HE3	1:B:49:TYR:CZ	0.47	2.44	4	3
1:B:26:LYS:H	1:B:26:LYS:HD2	0.47	1.69	4	2
1:A:21:ASN:O	1:A:22:LYS:HB2	0.47	2.10	8	3
1:A:50:GLU:C	1:A:51:ASP:OD1	0.47	2.53	7	1
1:A:20:LEU:O	1:A:20:LEU:CD1	0.47	2.60	8	1
1:B:23:GLY:CA	1:B:24:LYS:HD3	0.47	2.39	14	1
1:A:18:ASP:O	1:A:22:LYS:CG	0.47	2.63	24	2
1:A:22:LYS:C	1:A:24:LYS:N	0.47	2.67	23	1
1:B:82:LEU:CD1	1:B:84:ILE:N	0.47	2.77	23	1
1:A:23:GLY:HA3	1:A:47:ILE:N	0.47	2.25	25	1
1:A:45:TYR:N	1:A:45:TYR:CD1	0.47	2.83	1	1
1:B:14:ASN:N	1:B:14:ASN:HD22	0.47	2.07	2	2
1:B:59:ASN:CB	1:B:88:TYR:CD1	0.47	2.97	2	1
1:B:15:SER:O	1:B:19:LYS:N	0.47	2.46	14	5
1:B:56:ILE:CD1	1:B:64:TYR:CD2	0.47	2.97	5	1
1:A:92:LYS:HG2	1:B:55:GLY:H	0.47	1.70	22	1
1:B:82:LEU:O	1:B:82:LEU:HD13	0.47	2.06	23	1
1:A:24:LYS:H	1:A:24:LYS:HD3	0.47	1.69	9	3
1:A:55:GLY:O	1:A:57:PHE:CE1	0.47	2.68	1	2
1:A:64:TYR:OH	1:A:75:ILE:CB	0.47	2.62	14	7
1:A:54:TRP:CH2	1:B:93:GLN:HB3	0.47	2.45	20	6
1:B:21:ASN:O	1:B:22:LYS:HB2	0.47	2.10	8	3
1:A:57:PHE:CE1	1:A:62:LYS:CD	0.47	2.97	9	2
1:A:56:ILE:O	1:A:63:VAL:CG1	0.47	2.56	12	2
1:B:46:GLY:C	1:B:47:ILE:HD12	0.47	2.30	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:80:ASN:OD1	1:B:80:ASN:C	0.47	2.53	17	2
1:A:23:GLY:CA	1:A:46:GLY:CA	0.47	2.92	15	1
1:A:19:LYS:HZ2	1:B:93:GLN:CG	0.47	2.23	18	1
1:A:42:ASN:O	1:A:45:TYR:CA	0.47	2.63	18	1
1:A:57:PHE:CE1	1:A:62:LYS:HD3	0.47	2.45	20	2
1:A:91:ILE:HG22	1:B:56:ILE:HG23	0.47	1.85	20	1
1:A:10:MET:N	1:A:10:MET:CE	0.47	2.77	21	1
1:B:25:GLY:N	1:B:45:TYR:O	0.47	2.47	21	1
1:A:27:LEU:CD1	1:A:29:LEU:CD1	0.47	2.93	6	13
1:A:21:ASN:C	1:A:23:GLY:N	0.47	2.68	5	1
1:B:23:GLY:CA	1:B:46:GLY:CA	0.47	2.92	15	1
1:A:57:PHE:CD1	1:A:62:LYS:HA	0.47	2.45	16	3
1:B:77:ASN:O	1:B:80:ASN:OD1	0.47	2.31	1	2
1:A:12:SER:O	1:A:13:ILE:C	0.47	2.52	5	1
1:A:93:GLN:CG	1:B:19:LYS:NZ	0.47	2.78	11	2
1:A:33:GLY:O	1:A:34:ASN:HB3	0.47	2.10	20	1
1:A:47:ILE:HD13	1:A:48:SER:H	0.47	1.70	21	1
1:A:71:THR:C	1:A:73:GLY:N	0.47	2.67	11	6
1:B:21:ASN:C	1:B:23:GLY:N	0.47	2.68	5	1
1:B:24:LYS:HE2	1:B:49:TYR:CE1	0.47	2.44	6	1
1:A:46:GLY:C	1:A:47:ILE:HD12	0.47	2.30	13	1
1:B:45:TYR:O	1:B:47:ILE:CG1	0.47	2.63	18	1
1:B:57:PHE:CE1	1:B:62:LYS:HD3	0.47	2.45	20	2
1:B:47:ILE:C	1:B:48:SER:OG	0.47	2.53	24	1
1:B:77:ASN:CG	1:B:78:ASP:H	0.46	2.13	21	9
1:B:51:ASP:CG	1:B:67:ASN:ND2	0.46	2.68	2	1
1:A:56:ILE:N	1:A:62:LYS:HZ2	0.46	2.04	3	1
1:B:26:LYS:O	1:B:41:SER:N	0.46	2.49	9	1
1:B:64:TYR:CD1	1:B:66:PHE:CE2	0.46	3.03	10	1
1:A:80:ASN:OD1	1:A:80:ASN:C	0.46	2.53	17	2
1:A:12:SER:O	1:A:13:ILE:O	0.46	2.33	18	1
1:A:58:VAL:HG13	1:A:59:ASN:HD21	0.46	1.70	18	1
1:B:33:GLY:O	1:B:34:ASN:HB3	0.46	2.10	20	1
1:B:55:GLY:O	1:B:57:PHE:CE1	0.46	2.68	1	2
1:B:63:VAL:O	1:B:63:VAL:CG2	0.46	2.62	6	5
1:B:74:ASN:O	1:B:77:ASN:HB3	0.46	2.10	10	11
1:B:54:TRP:O	1:B:65:THR:HG23	0.46	2.09	15	2
1:B:57:PHE:CD1	1:B:62:LYS:HA	0.46	2.45	16	3
1:A:45:TYR:O	1:A:47:ILE:CG1	0.46	2.63	18	1
1:A:56:ILE:CG2	1:A:63:VAL:HG13	0.46	2.40	18	1
1:B:12:SER:O	1:B:13:ILE:O	0.46	2.33	18	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:70:SER:C	1:B:71:THR:CG2	0.46	2.83	22	7
1:A:17:ASN:ND2	1:A:29:LEU:HB2	0.46	2.26	6	6
1:A:51:ASP:CG	1:A:67:ASN:ND2	0.46	2.68	2	1
1:B:45:TYR:CG	1:B:45:TYR:O	0.46	2.69	12	1
1:A:59:ASN:HB3	1:A:88:TYR:CG	0.46	2.46	14	1
1:B:32:ASN:C	1:B:34:ASN:N	0.46	2.68	20	1
1:B:59:ASN:C	1:B:90:GLU:OE2	0.46	2.54	23	2
1:B:82:LEU:O	1:B:83:ASN:HB3	0.46	2.11	23	1
1:B:24:LYS:H	1:B:24:LYS:HD3	0.46	1.69	9	3
1:B:66:PHE:HD1	1:B:66:PHE:H	0.46	1.53	15	6
1:B:24:LYS:HZ2	1:B:48:SER:HB2	0.46	1.61	14	1
1:B:83:ASN:ND2	1:B:83:ASN:O	0.46	2.47	14	1
1:A:64:TYR:CD2	1:A:79:ILE:CG2	0.46	2.98	23	2
1:A:27:LEU:HB2	1:A:40:SER:OG	0.46	2.11	6	4
1:A:20:LEU:HG	1:A:54:TRP:CH2	0.46	2.46	9	9
1:B:20:LEU:HG	1:B:54:TRP:CH2	0.46	2.46	23	9
1:A:26:LYS:H	1:A:26:LYS:HD2	0.46	1.69	4	2
1:B:24:LYS:HZ3	1:B:24:LYS:HA	0.46	1.70	8	1
1:A:93:GLN:O	1:A:94:ILE:OXT	0.46	2.34	25	2
1:A:93:GLN:HB2	1:B:54:TRP:CZ2	0.46	2.46	25	1
1:A:70:SER:C	1:A:71:THR:CG2	0.46	2.84	1	8
1:B:17:ASN:ND2	1:B:29:LEU:HB2	0.46	2.26	6	9
1:B:27:LEU:HB2	1:B:40:SER:OG	0.46	2.11	6	5
1:B:51:ASP:OD1	1:B:51:ASP:O	0.46	2.34	1	1
1:A:91:ILE:HG22	1:B:56:ILE:HA	0.46	1.88	2	2
1:A:49:TYR:HB3	1:A:52:LYS:NZ	0.46	2.25	3	1
1:B:93:GLN:N	1:B:93:GLN:OE1	0.46	2.49	9	1
1:B:53:ASN:ND2	1:B:53:ASN:N	0.46	2.49	10	1
1:A:44:GLY:C	1:A:71:THR:HG21	0.46	2.31	16	1
1:B:67:ASN:O	1:B:68:GLU:C	0.46	2.52	18	1
1:A:46:GLY:C	1:A:68:GLU:O	0.46	2.54	20	1
1:A:55:GLY:H	1:B:92:LYS:HG2	0.46	1.70	22	1
1:B:62:LYS:HZ2	1:B:65:THR:CB	0.46	2.20	24	1
1:A:54:TRP:CZ2	1:B:93:GLN:HB2	0.46	2.46	25	1
1:A:56:ILE:H	1:A:62:LYS:HZ1	0.46	1.53	1	1
1:A:19:LYS:NZ	1:B:93:GLN:HG3	0.46	2.25	17	2
1:A:63:VAL:O	1:A:63:VAL:CG2	0.46	2.62	6	4
1:B:64:TYR:CD2	1:B:66:PHE:CE2	0.46	3.04	9	1
1:A:57:PHE:CE1	1:B:92:LYS:HG3	0.46	2.46	11	1
1:B:82:LEU:HD12	1:B:82:LEU:H	0.46	1.70	13	2
1:B:45:TYR:CD1	1:B:47:ILE:HD13	0.46	2.45	15	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:45:TYR:N	1:B:45:TYR:CD1	0.46	2.83	1	1
1:A:74:ASN:O	1:A:77:ASN:HB3	0.46	2.11	25	12
1:A:89:ILE:CD1	1:A:89:ILE:N	0.46	2.79	8	1
1:A:83:ASN:O	1:A:84:ILE:C	0.46	2.54	23	2
1:B:15:SER:O	1:B:16:VAL:C	0.46	2.54	13	1
1:B:56:ILE:CG2	1:B:63:VAL:HG13	0.46	2.40	18	2
1:A:32:ASN:C	1:A:34:ASN:N	0.46	2.68	20	1
1:B:49:TYR:C	1:B:68:GLU:OE2	0.46	2.55	21	1
1:B:59:ASN:HB2	1:B:88:TYR:CD1	0.46	2.46	22	1
1:A:22:LYS:HD2	1:A:54:TRP:NE1	0.46	2.26	23	1
1:A:79:ILE:O	1:A:82:LEU:HD12	0.46	2.11	10	5
1:B:20:LEU:O	1:B:20:LEU:CD1	0.46	2.60	8	1
1:A:93:GLN:N	1:A:93:GLN:OE1	0.46	2.49	9	1
1:A:47:ILE:CB	1:A:68:GLU:O	0.46	2.64	10	1
1:B:42:ASN:HD22	1:B:42:ASN:N	0.46	2.04	10	1
1:A:82:LEU:O	1:A:83:ASN:HB3	0.46	2.11	23	1
1:B:22:LYS:HD2	1:B:54:TRP:NE1	0.46	2.26	23	1
1:A:59:ASN:CA	1:A:90:GLU:OE2	0.46	2.64	25	1
1:A:77:ASN:CG	1:A:78:ASP:H	0.46	2.14	22	8
1:A:68:GLU:OE1	1:B:94:ILE:HG21	0.46	2.11	3	1
1:A:93:GLN:HB3	1:B:54:TRP:CH2	0.46	2.46	25	5
1:B:23:GLY:C	1:B:24:LYS:HZ1	0.46	2.14	8	1
1:A:49:TYR:CD2	1:A:49:TYR:N	0.46	2.69	15	1
1:B:44:GLY:C	1:B:71:THR:HG21	0.46	2.31	16	1
1:B:46:GLY:C	1:B:68:GLU:O	0.46	2.54	20	1
1:B:88:TYR:OH	1:B:90:GLU:HG3	0.46	2.11	20	2
1:A:49:TYR:C	1:A:68:GLU:OE2	0.46	2.55	21	1
1:B:24:LYS:HE2	1:B:24:LYS:N	0.45	2.26	3	1
1:B:34:ASN:O	1:B:84:ILE:C	0.45	2.55	3	1
1:B:67:ASN:OD1	1:B:70:SER:N	0.45	2.41	8	2
1:B:47:ILE:CB	1:B:68:GLU:O	0.45	2.65	10	1
1:A:55:GLY:N	1:B:92:LYS:HG2	0.45	2.26	16	3
1:B:49:TYR:CD2	1:B:49:TYR:N	0.45	2.69	15	2
1:A:49:TYR:HB2	1:A:68:GLU:OE2	0.45	2.11	21	1
1:B:47:ILE:HD13	1:B:48:SER:H	0.45	1.70	21	1
1:B:47:ILE:HD12	1:B:68:GLU:O	0.45	2.11	4	1
1:A:59:ASN:HD21	1:A:61:GLU:HB2	0.45	1.71	5	4
1:A:88:TYR:CE1	1:A:90:GLU:HG3	0.45	2.46	17	5
1:A:24:LYS:NZ	1:A:48:SER:HB3	0.45	2.23	14	1
1:A:59:ASN:C	1:A:90:GLU:OE2	0.45	2.54	23	2
1:A:63:VAL:CG2	1:A:63:VAL:O	0.45	2.64	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:79:ILE:O	1:B:82:LEU:HD12	0.45	2.11	18	5
1:B:59:ASN:HB3	1:B:88:TYR:CG	0.45	2.45	14	1
1:A:45:TYR:CD1	1:A:47:ILE:HD13	0.45	2.45	15	1
1:A:15:SER:O	1:A:16:VAL:C	0.45	2.54	13	1
1:B:42:ASN:O	1:B:45:TYR:CA	0.45	2.63	18	1
1:A:88:TYR:OH	1:A:90:GLU:HG3	0.45	2.11	20	2
1:A:34:ASN:ND2	1:A:86:GLY:HA3	0.45	2.27	21	1
1:B:83:ASN:O	1:B:84:ILE:C	0.45	2.54	23	1
1:B:59:ASN:HD21	1:B:61:GLU:CG	0.45	2.25	1	1
1:A:79:ILE:O	1:A:82:LEU:HG	0.45	2.11	21	11
1:A:81:LYS:CD	1:A:81:LYS:O	0.45	2.64	14	3
1:A:64:TYR:CD1	1:A:66:PHE:CE1	0.45	3.04	18	2
1:B:93:GLN:O	1:B:94:ILE:OXT	0.45	2.35	21	2
1:A:59:ASN:HB2	1:A:88:TYR:CD1	0.45	2.46	22	1
1:A:51:ASP:OD1	1:A:51:ASP:O	0.45	2.34	1	1
1:A:56:ILE:HD11	1:A:66:PHE:CZ	0.45	2.47	5	3
1:B:79:ILE:O	1:B:82:LEU:HG	0.45	2.11	21	10
1:A:24:LYS:HE3	1:A:49:TYR:CE2	0.45	2.47	3	1
1:A:10:MET:SD	1:A:34:ASN:HB3	0.45	2.52	5	1
1:B:10:MET:SD	1:B:34:ASN:HB3	0.45	2.52	5	1
1:A:82:LEU:CD1	1:A:84:ILE:HG13	0.45	2.42	25	2
1:A:23:GLY:O	1:A:48:SER:O	0.45	2.34	21	1
1:B:23:GLY:O	1:B:48:SER:O	0.45	2.34	21	1
1:B:64:TYR:CD1	1:B:79:ILE:CG2	0.45	2.98	21	1
1:B:89:ILE:C	1:B:90:GLU:OE2	0.45	2.55	23	1
1:A:34:ASN:O	1:A:84:ILE:C	0.45	2.55	3	1
1:B:49:TYR:HB3	1:B:52:LYS:NZ	0.45	2.25	3	1
1:A:10:MET:SD	1:A:12:SER:HB3	0.45	2.52	6	1
1:A:58:VAL:CG2	1:A:59:ASN:OD1	0.45	2.55	7	1
1:B:25:GLY:N	1:B:45:TYR:HA	0.45	2.27	12	2
1:A:47:ILE:HD12	1:A:48:SER:N	0.45	2.27	10	1
1:A:54:TRP:NE1	1:A:68:GLU:CD	0.45	2.70	10	1
1:A:45:TYR:CG	1:A:47:ILE:HG13	0.45	2.47	24	1
1:B:59:ASN:CA	1:B:90:GLU:OE2	0.45	2.64	25	1
1:B:82:LEU:CD1	1:B:84:ILE:HG13	0.45	2.42	25	1
1:A:59:ASN:O	1:A:90:GLU:HB2	0.45	2.12	2	4
1:B:24:LYS:HE3	1:B:49:TYR:CE2	0.45	2.47	3	3
1:B:59:ASN:HD21	1:B:61:GLU:HB2	0.45	1.71	5	5
1:B:10:MET:SD	1:B:12:SER:HB3	0.45	2.52	6	1
1:A:64:TYR:HH	1:A:66:PHE:HD1	0.45	1.52	7	2
1:A:48:SER:OG	1:A:68:GLU:HG2	0.45	2.12	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:64:TYR:CD1	1:A:66:PHE:CE2	0.45	3.03	10	1
1:A:45:TYR:CG	1:A:45:TYR:O	0.45	2.69	12	1
1:B:53:ASN:HD22	1:B:67:ASN:CG	0.45	2.15	15	1
1:A:14:ASN:O	1:A:17:ASN:CB	0.45	2.65	17	1
1:A:88:TYR:CZ	1:A:90:GLU:HG2	0.45	2.47	20	2
1:B:45:TYR:CE2	1:B:71:THR:HG21	0.45	2.47	23	1
1:A:56:ILE:C	1:A:62:LYS:HZ2	0.45	2.15	3	1
1:A:47:ILE:HD12	1:A:68:GLU:O	0.45	2.11	4	1
1:A:24:LYS:N	1:A:46:GLY:CA	0.45	2.80	5	1
1:A:36:LEU:HG	1:A:80:ASN:ND2	0.45	2.27	6	1
1:B:88:TYR:CE1	1:B:90:GLU:HG3	0.45	2.46	17	5
1:A:92:LYS:HD2	1:B:57:PHE:CE1	0.45	2.47	21	1
1:A:90:GLU:OE2	1:A:91:ILE:N	0.45	2.46	22	1
1:A:94:ILE:HG21	1:B:68:GLU:OE1	0.45	2.11	3	1
1:B:90:GLU:C	1:B:91:ILE:CD1	0.45	2.83	3	1
1:B:93:GLN:C	1:B:94:ILE:CG1	0.45	2.85	7	2
1:A:79:ILE:HD13	1:A:79:ILE:N	0.45	2.27	23	4
1:B:46:GLY:H	1:B:47:ILE:HD12	0.45	1.71	13	1
1:A:52:LYS:HZ2	1:A:52:LYS:CB	0.45	2.23	25	1
1:B:34:ASN:O	1:B:84:ILE:N	0.44	2.50	1	1
1:B:56:ILE:C	1:B:62:LYS:HZ2	0.44	2.15	3	1
1:B:20:LEU:HD21	1:B:66:PHE:CE1	0.44	2.47	5	2
1:A:92:LYS:HG3	1:B:57:PHE:CE1	0.44	2.46	11	1
1:B:61:GLU:HG2	1:B:92:LYS:NZ	0.44	2.27	11	1
1:A:49:TYR:O	1:A:52:LYS:HE3	0.44	2.12	20	2
1:B:45:TYR:CD1	1:B:47:ILE:CD1	0.44	3.01	15	1
1:A:45:TYR:CE1	1:A:71:THR:CG2	0.44	3.00	17	1
1:A:93:GLN:CD	1:A:93:GLN:O	0.44	2.55	18	2
1:A:45:TYR:CE2	1:A:71:THR:HG21	0.44	2.47	23	1
1:A:88:TYR:CE2	1:A:90:GLU:HG3	0.44	2.47	21	4
1:B:24:LYS:N	1:B:46:GLY:CA	0.44	2.80	5	1
1:B:49:TYR:O	1:B:52:LYS:HE3	0.44	2.12	20	2
1:B:68:GLU:O	1:B:71:THR:N	0.44	2.49	16	1
1:B:59:ASN:HD22	1:B:61:GLU:HB2	0.44	1.72	21	1
1:A:89:ILE:C	1:A:90:GLU:OE2	0.44	2.55	23	1
1:A:26:LYS:O	1:A:40:SER:CA	0.44	2.66	24	4
1:A:34:ASN:O	1:A:84:ILE:N	0.44	2.50	1	1
1:B:23:GLY:H	1:B:24:LYS:HE2	0.44	1.72	8	1
1:A:74:ASN:O	1:A:77:ASN:CB	0.44	2.66	25	2
1:A:45:TYR:CE2	1:A:46:GLY:O	0.44	2.70	11	1
1:A:82:LEU:HD12	1:A:82:LEU:H	0.44	1.70	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:37:LYS:HB2	1:A:37:LYS:NZ	0.44	2.27	14	3
1:B:37:LYS:CB	1:B:37:LYS:NZ	0.44	2.81	14	1
1:A:27:LEU:HG	1:A:28:SER:N	0.44	2.27	15	1
1:A:45:TYR:CD1	1:A:47:ILE:CD1	0.44	3.01	15	1
1:B:45:TYR:CE1	1:B:71:THR:CG2	0.44	3.00	17	1
1:A:57:PHE:CE1	1:B:92:LYS:HD2	0.44	2.47	21	1
1:B:45:TYR:CG	1:B:47:ILE:HG13	0.44	2.47	24	1
1:B:56:ILE:HD11	1:B:66:PHE:CZ	0.44	2.47	5	3
1:A:56:ILE:O	1:A:62:LYS:HA	0.44	2.13	13	2
1:B:59:ASN:O	1:B:90:GLU:HB2	0.44	2.12	2	4
1:B:48:SER:HB3	1:B:49:TYR:CE1	0.44	2.48	16	2
1:B:32:ASN:HB2	1:B:37:LYS:NZ	0.44	2.28	22	2
1:A:23:GLY:H	1:A:24:LYS:HE2	0.44	1.72	8	1
1:A:26:LYS:O	1:A:41:SER:N	0.44	2.49	9	1
1:B:79:ILE:N	1:B:79:ILE:HD13	0.44	2.27	23	4
1:B:49:TYR:HB2	1:B:68:GLU:OE2	0.44	2.11	21	1
1:A:93:GLN:HG3	1:B:19:LYS:NZ	0.44	2.26	17	2
1:A:20:LEU:HD21	1:A:66:PHE:CE1	0.44	2.48	5	2
1:B:36:LEU:CG	1:B:80:ASN:ND2	0.44	2.81	6	1
1:A:46:GLY:H	1:A:47:ILE:HD12	0.44	1.71	13	1
1:B:88:TYR:CZ	1:B:90:GLU:HG2	0.44	2.47	20	2
1:A:89:ILE:H	1:A:89:ILE:CD1	0.44	2.07	21	1
1:A:59:ASN:HD21	1:A:61:GLU:CG	0.44	2.25	1	1
1:A:25:GLY:N	1:A:45:TYR:HA	0.44	2.27	12	3
1:A:93:GLN:C	1:A:94:ILE:CG1	0.44	2.85	7	1
1:B:54:TRP:HE1	1:B:68:GLU:CD	0.44	2.16	10	1
1:B:45:TYR:CE2	1:B:46:GLY:O	0.44	2.70	11	1
1:A:26:LYS:O	1:A:26:LYS:HG2	0.44	2.13	13	1
1:A:53:ASN:HD22	1:A:67:ASN:CG	0.44	2.15	15	1
1:B:45:TYR:O	1:B:47:ILE:HD13	0.44	2.13	15	1
1:A:66:PHE:N	1:A:66:PHE:HD1	0.44	2.11	17	1
1:B:14:ASN:O	1:B:17:ASN:CB	0.44	2.65	17	1
1:A:91:ILE:HD11	1:B:16:VAL:CG1	0.44	2.42	2	1
1:B:56:ILE:O	1:B:62:LYS:HA	0.44	2.13	13	2
1:A:90:GLU:C	1:A:91:ILE:CD1	0.44	2.83	3	1
1:A:62:LYS:HG3	1:A:63:VAL:N	0.44	2.28	21	2
1:A:68:GLU:OE2	1:A:68:GLU:CA	0.44	2.66	15	2
1:A:64:TYR:CD2	1:A:66:PHE:CE2	0.44	3.04	9	1
1:A:54:TRP:HE1	1:A:68:GLU:CD	0.44	2.16	10	1
1:B:54:TRP:NE1	1:B:68:GLU:CD	0.44	2.70	10	1
1:A:19:LYS:HZ1	1:B:93:GLN:CG	0.44	2.25	11	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:12:SER:O	1:A:16:VAL:CB	0.44	2.66	22	2
1:A:34:ASN:ND2	1:A:34:ASN:N	0.44	2.64	21	1
1:A:32:ASN:HB2	1:A:37:LYS:NZ	0.44	2.28	22	1
1:B:21:ASN:HD22	1:B:22:LYS:H	0.44	1.52	22	1
1:A:24:LYS:HE2	1:A:24:LYS:N	0.44	2.26	3	1
1:B:36:LEU:HG	1:B:80:ASN:ND2	0.44	2.27	6	1
1:B:13:ILE:HD11	1:B:85:LYS:O	0.44	2.13	8	1
1:B:64:TYR:CD1	1:B:66:PHE:CE1	0.44	3.04	18	2
1:B:12:SER:O	1:B:16:VAL:CB	0.44	2.66	22	2
1:B:26:LYS:HZ2	1:B:26:LYS:CB	0.44	2.25	12	2
1:B:58:VAL:CG2	1:B:59:ASN:N	0.44	2.81	19	1
1:A:59:ASN:HD22	1:A:61:GLU:HB2	0.44	1.71	21	1
1:A:32:ASN:CB	1:A:37:LYS:NZ	0.44	2.81	22	1
1:A:23:GLY:HA2	1:A:49:TYR:CD2	0.43	2.48	5	1
1:A:23:GLY:H	1:A:24:LYS:CE	0.43	2.26	6	1
1:B:24:LYS:HE2	1:B:49:TYR:CD1	0.43	2.48	6	1
1:A:54:TRP:HB3	1:B:94:ILE:H	0.43	1.73	7	2
1:B:48:SER:OG	1:B:68:GLU:HG2	0.43	2.12	10	1
1:A:87:MET:HE2	1:B:87:MET:SD	0.43	2.52	12	1
1:B:34:ASN:C	1:B:35:GLN:CG	0.43	2.87	12	1
1:B:64:TYR:CZ	1:B:66:PHE:CG	0.43	3.06	17	1
1:B:82:LEU:HD12	1:B:83:ASN:N	0.43	2.28	22	1
1:B:25:GLY:HA2	1:B:42:ASN:CB	0.43	2.43	23	1
1:A:85:LYS:HB2	1:A:85:LYS:NZ	0.43	2.28	1	1
1:A:16:VAL:CG1	1:B:91:ILE:HD11	0.43	2.43	2	1
1:B:21:ASN:C	1:B:23:GLY:H	0.43	2.16	3	1
1:B:33:GLY:C	1:B:34:ASN:CG	0.43	2.76	5	1
1:A:10:MET:O	1:A:13:ILE:HG13	0.43	2.14	16	6
1:A:27:LEU:HG	1:A:29:LEU:HD11	0.43	1.90	18	5
1:A:61:GLU:HG2	1:A:92:LYS:NZ	0.43	2.27	11	1
1:B:26:LYS:O	1:B:26:LYS:HG2	0.43	2.13	13	2
1:B:34:ASN:O	1:B:84:ILE:HG13	0.43	2.13	13	1
1:B:32:ASN:CB	1:B:37:LYS:NZ	0.43	2.81	22	1
1:B:62:LYS:CB	1:B:62:LYS:NZ	0.43	2.82	2	1
1:B:88:TYR:CE2	1:B:90:GLU:HG3	0.43	2.48	7	4
1:A:45:TYR:N	1:A:71:THR:HB	0.43	2.28	6	2
1:B:23:GLY:H	1:B:24:LYS:NZ	0.43	2.11	6	1
1:A:94:ILE:H	1:B:54:TRP:HB3	0.43	1.74	15	2
1:B:37:LYS:HZ3	1:B:37:LYS:HB2	0.43	1.73	7	1
1:B:47:ILE:HD12	1:B:48:SER:N	0.43	2.27	10	1
1:A:37:LYS:NZ	1:A:37:LYS:CB	0.43	2.81	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:47:ILE:N	1:A:47:ILE:HD13	0.43	2.27	18	3
1:B:27:LEU:HG	1:B:28:SER:N	0.43	2.27	15	1
1:B:36:LEU:CD2	1:B:80:ASN:OD1	0.43	2.66	19	1
1:A:25:GLY:HA2	1:A:42:ASN:CB	0.43	2.43	23	1
1:B:64:TYR:CD2	1:B:64:TYR:C	0.43	2.89	1	1
1:B:49:TYR:HB3	1:B:52:LYS:HZ1	0.43	1.73	3	1
1:B:62:LYS:HG3	1:B:63:VAL:N	0.43	2.28	21	2
1:B:45:TYR:N	1:B:71:THR:HB	0.43	2.28	6	2
1:B:27:LEU:HG	1:B:29:LEU:HD11	0.43	1.91	25	5
1:B:17:ASN:O	1:B:21:ASN:CG	0.43	2.57	14	1
1:A:45:TYR:O	1:A:47:ILE:HD13	0.43	2.13	15	1
1:B:26:LYS:O	1:B:40:SER:CA	0.43	2.66	24	4
1:B:56:ILE:H	1:B:62:LYS:NZ	0.43	2.12	1	1
1:A:48:SER:HB3	1:A:49:TYR:CE1	0.43	2.48	16	2
1:B:37:LYS:NZ	1:B:37:LYS:HB2	0.43	2.27	14	2
1:B:23:GLY:HA3	1:B:46:GLY:H	0.43	1.73	15	1
1:A:58:VAL:CG2	1:A:59:ASN:N	0.43	2.81	19	1
1:A:58:VAL:HG21	1:A:85:LYS:HG2	0.43	1.91	21	1
1:B:45:TYR:CD2	1:B:45:TYR:C	0.43	2.92	1	1
1:A:10:MET:SD	1:A:12:SER:HB2	0.43	2.53	6	1
1:A:23:GLY:H	1:A:24:LYS:HE3	0.43	1.73	6	1
1:A:92:LYS:O	1:B:54:TRP:HB2	0.43	2.14	15	2
1:A:16:VAL:HG12	1:A:20:LEU:HD23	0.43	1.91	8	1
1:A:16:VAL:HG12	1:A:20:LEU:HD12	0.43	1.90	9	1
1:A:56:ILE:CD1	1:A:66:PHE:CE2	0.43	3.01	10	2
1:B:56:ILE:CD1	1:B:66:PHE:CE2	0.43	3.01	10	2
1:B:74:ASN:O	1:B:77:ASN:CB	0.43	2.66	25	2
1:A:82:LEU:HD12	1:A:83:ASN:N	0.43	2.28	22	1
1:A:85:LYS:HB2	1:A:85:LYS:HZ3	0.43	1.73	1	1
1:B:42:ASN:C	1:B:42:ASN:HD22	0.43	2.17	1	1
1:B:85:LYS:HB2	1:B:85:LYS:NZ	0.43	2.28	1	1
1:A:80:ASN:HD22	1:A:80:ASN:C	0.43	2.08	4	1
1:A:33:GLY:C	1:A:34:ASN:CG	0.43	2.76	5	1
1:A:23:GLY:H	1:A:24:LYS:NZ	0.43	2.11	6	1
1:B:10:MET:O	1:B:13:ILE:HG13	0.43	2.14	6	6
1:B:23:GLY:H	1:B:24:LYS:CE	0.43	2.27	6	1
1:A:54:TRP:HB2	1:B:92:LYS:O	0.43	2.14	15	1
1:B:10:MET:H	1:B:13:ILE:HG12	0.43	1.74	14	2
1:A:24:LYS:HE2	1:A:49:TYR:CD1	0.43	2.48	6	1
1:A:50:GLU:CB	1:A:52:LYS:HZ3	0.43	2.24	6	1
1:A:13:ILE:HD11	1:A:85:LYS:O	0.43	2.13	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:57:PHE:CZ	1:B:62:LYS:HD2	0.43	2.49	14	2
1:B:64:TYR:HD1	1:B:65:THR:H	0.43	1.48	14	1
1:A:64:TYR:CZ	1:A:66:PHE:CG	0.43	3.06	17	1
1:B:34:ASN:ND2	1:B:86:GLY:HA3	0.43	2.27	21	1
1:A:61:GLU:OE1	1:A:92:LYS:NZ	0.43	2.52	25	1
1:A:93:GLN:CB	1:B:54:TRP:CZ2	0.43	3.02	25	1
1:A:36:LEU:CG	1:A:80:ASN:ND2	0.43	2.81	6	1
1:B:34:ASN:HB3	1:B:86:GLY:N	0.43	2.29	25	2
1:A:62:LYS:NZ	1:A:65:THR:HB	0.43	2.29	10	1
1:B:26:LYS:C	1:B:40:SER:HG	0.43	2.14	12	1
1:A:17:ASN:O	1:A:21:ASN:CG	0.43	2.57	14	1
1:B:45:TYR:CD2	1:B:47:ILE:HD11	0.43	2.49	20	2
1:A:14:ASN:ND2	1:A:14:ASN:N	0.43	2.66	21	1
1:A:34:ASN:HB3	1:A:86:GLY:N	0.43	2.29	25	1
1:A:60:GLY:HA2	1:B:60:GLY:CA	0.43	2.44	14	2
1:A:57:PHE:CZ	1:A:62:LYS:HD2	0.43	2.49	17	2
1:A:68:GLU:O	1:A:71:THR:N	0.43	2.49	16	1
1:B:26:LYS:NZ	1:B:41:SER:HB3	0.43	2.29	17	3
1:A:45:TYR:CD2	1:A:47:ILE:HD11	0.43	2.49	20	2
1:A:42:ASN:C	1:A:42:ASN:HD22	0.42	2.17	1	1
1:A:34:ASN:ND2	1:A:87:MET:CE	0.42	2.82	5	1
1:B:23:GLY:HA2	1:B:49:TYR:CD2	0.42	2.48	5	1
1:A:37:LYS:HZ3	1:A:37:LYS:HB2	0.42	1.74	7	1
1:A:54:TRP:NE1	1:A:68:GLU:OE1	0.42	2.52	10	1
1:B:21:ASN:ND2	1:B:29:LEU:HG	0.42	2.29	14	1
1:B:24:LYS:NZ	1:B:49:TYR:H	0.42	2.12	14	1
1:A:82:LEU:HD13	1:A:84:ILE:N	0.42	2.29	23	1
1:A:23:GLY:O	1:A:48:SER:CB	0.42	2.67	24	1
1:B:61:GLU:OE1	1:B:92:LYS:NZ	0.42	2.52	25	1
1:A:21:ASN:C	1:A:23:GLY:H	0.42	2.16	3	1
1:A:60:GLY:CA	1:B:60:GLY:HA2	0.42	2.42	4	2
1:B:23:GLY:C	1:B:46:GLY:HA2	0.42	2.35	4	1
1:A:85:LYS:N	1:A:85:LYS:CD	0.42	2.82	6	1
1:B:24:LYS:N	1:B:24:LYS:HE3	0.42	2.29	6	1
1:B:85:LYS:N	1:B:85:LYS:CD	0.42	2.82	6	1
1:B:24:LYS:HD3	1:B:24:LYS:N	0.42	2.28	7	1
1:A:67:ASN:OD1	1:A:70:SER:N	0.42	2.41	8	1
1:B:63:VAL:O	1:B:63:VAL:HG22	0.42	2.13	8	2
1:B:68:GLU:OE2	1:B:68:GLU:CA	0.42	2.66	15	2
1:A:25:GLY:CA	1:A:45:TYR:HA	0.42	2.45	12	1
1:A:36:LEU:CD2	1:A:80:ASN:OD1	0.42	2.66	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:21:ASN:O	1:A:49:TYR:CZ	0.42	2.71	22	1
1:B:23:GLY:C	1:B:24:LYS:O	0.42	2.58	3	2
1:A:23:GLY:C	1:A:46:GLY:HA3	0.42	2.35	5	1
1:B:10:MET:SD	1:B:12:SER:HB2	0.42	2.53	6	1
1:A:47:ILE:H	1:A:47:ILE:HD12	0.42	1.73	8	2
1:A:53:ASN:H	1:A:53:ASN:HD22	0.42	1.51	10	1
1:A:34:ASN:C	1:A:35:GLN:CG	0.42	2.87	12	1
1:B:56:ILE:O	1:B:63:VAL:CG1	0.42	2.56	12	2
1:B:24:LYS:HZ2	1:B:48:SER:HB3	0.42	1.67	14	1
1:A:26:LYS:NZ	1:A:41:SER:HB3	0.42	2.29	17	1
1:A:42:ASN:OD1	1:A:71:THR:OG1	0.42	2.23	17	1
1:B:58:VAL:HG21	1:B:85:LYS:HG2	0.42	1.91	21	1
1:B:83:ASN:OD1	1:B:85:LYS:CD	0.42	2.67	22	1
1:A:52:LYS:NZ	1:B:94:ILE:HG21	0.42	2.30	25	1
1:A:94:ILE:HG21	1:B:52:LYS:NZ	0.42	2.30	25	1
1:A:56:ILE:H	1:A:62:LYS:NZ	0.42	2.12	1	1
1:A:92:LYS:HE3	1:B:55:GLY:N	0.42	2.29	2	1
1:A:51:ASP:O	1:A:51:ASP:CG	0.42	2.58	8	1
1:B:13:ILE:N	1:B:13:ILE:HD12	0.42	2.29	9	1
1:B:62:LYS:NZ	1:B:65:THR:HB	0.42	2.29	10	1
1:A:27:LEU:HD12	1:A:38:ALA:HB1	0.42	1.91	11	1
1:B:24:LYS:HE3	1:B:48:SER:N	0.42	2.30	14	1
1:A:26:LYS:HE2	1:A:42:ASN:ND2	0.42	2.29	15	1
1:B:27:LEU:HA	1:B:39:THR:O	0.42	2.14	15	1
1:A:42:ASN:O	1:A:45:TYR:CD2	0.42	2.72	18	1
1:B:42:ASN:O	1:B:45:TYR:CD2	0.42	2.72	18	1
1:B:21:ASN:O	1:B:49:TYR:CZ	0.42	2.72	22	1
1:A:20:LEU:O	1:A:21:ASN:C	0.42	2.58	23	1
1:A:24:LYS:HE3	1:A:24:LYS:N	0.42	2.29	6	1
1:B:23:GLY:H	1:B:24:LYS:HE3	0.42	1.73	6	1
1:A:24:LYS:HA	1:A:46:GLY:N	0.42	2.29	9	1
1:B:24:LYS:HA	1:B:46:GLY:N	0.42	2.29	9	1
1:A:90:GLU:OE2	1:B:16:VAL:HG22	0.42	2.15	10	1
1:B:53:ASN:H	1:B:53:ASN:HD22	0.42	1.51	10	1
1:A:24:LYS:NZ	1:A:49:TYR:H	0.42	2.12	14	1
1:B:33:GLY:O	1:B:34:ASN:CG	0.42	2.58	20	1
1:B:14:ASN:ND2	1:B:14:ASN:N	0.42	2.66	21	1
1:A:45:TYR:CE1	1:A:47:ILE:HD11	0.42	2.50	5	1
1:B:23:GLY:C	1:B:46:GLY:HA3	0.42	2.35	5	1
1:A:13:ILE:CD1	1:A:14:ASN:ND2	0.42	2.82	6	2
1:A:94:ILE:HG21	1:B:52:LYS:HB3	0.42	1.91	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:12:SER:OG	1:A:31:MET:SD	0.42	2.75	13	1
1:A:36:LEU:O	1:A:37:LYS:HG2	0.42	2.15	8	3
1:B:25:GLY:CA	1:B:45:TYR:HA	0.42	2.45	12	2
1:B:52:LYS:O	1:B:68:GLU:N	0.42	2.52	1	1
1:A:70:SER:HG	1:A:75:ILE:HD11	0.42	1.71	5	1
1:B:34:ASN:ND2	1:B:87:MET:CE	0.42	2.82	5	1
1:B:54:TRP:NE1	1:B:68:GLU:OE1	0.42	2.52	10	1
1:A:26:LYS:NZ	1:A:26:LYS:CB	0.42	2.83	12	1
1:B:62:LYS:C	1:B:63:VAL:HG12	0.42	2.35	13	1
1:B:58:VAL:HG21	1:B:85:LYS:CE	0.42	2.45	17	1
1:A:46:GLY:O	1:A:47:ILE:C	0.42	2.58	20	1
1:A:21:ASN:HD22	1:A:22:LYS:H	0.42	1.52	22	1
1:A:54:TRP:CZ2	1:B:93:GLN:CB	0.42	3.02	25	1
1:A:10:MET:H	1:A:13:ILE:HG12	0.42	1.74	1	2
1:B:36:LEU:O	1:B:80:ASN:HB2	0.42	2.14	1	1
1:A:24:LYS:HE2	1:A:24:LYS:H	0.42	1.75	20	2
1:A:63:VAL:O	1:A:63:VAL:HG22	0.42	2.13	8	1
1:A:62:LYS:NZ	1:A:62:LYS:HB2	0.42	2.29	12	1
1:B:27:LEU:CD2	1:B:29:LEU:HD11	0.42	2.45	12	1
1:A:62:LYS:C	1:A:63:VAL:HG12	0.42	2.34	13	1
1:A:82:LEU:CD1	1:A:82:LEU:N	0.42	2.82	13	1
1:B:49:TYR:HB2	1:B:52:LYS:CE	0.42	2.45	13	1
1:B:26:LYS:HE2	1:B:42:ASN:ND2	0.42	2.29	15	1
1:B:37:LYS:HB2	1:B:37:LYS:NZ	0.42	2.29	18	1
1:A:93:GLN:HB3	1:B:54:TRP:CZ2	0.42	2.49	23	1
1:B:45:TYR:CG	1:B:47:ILE:CG1	0.42	3.03	24	1
1:B:56:ILE:H	1:B:62:LYS:HZ1	0.42	1.58	1	1
1:A:23:GLY:C	1:A:46:GLY:HA2	0.42	2.34	4	1
1:B:49:TYR:C	1:B:50:GLU:O	0.42	2.58	23	3
1:B:16:VAL:HG12	1:B:20:LEU:HD12	0.42	1.90	9	1
1:A:67:ASN:O	1:A:70:SER:N	0.42	2.53	12	1
1:A:34:ASN:O	1:A:84:ILE:HG12	0.42	2.14	13	1
1:B:82:LEU:CD1	1:B:82:LEU:N	0.42	2.82	13	1
1:A:21:ASN:ND2	1:A:29:LEU:HG	0.42	2.29	14	1
1:A:58:VAL:HG21	1:A:85:LYS:CE	0.42	2.45	17	1
1:A:33:GLY:O	1:A:34:ASN:CG	0.42	2.58	20	1
1:B:45:TYR:CE1	1:B:47:ILE:HD11	0.42	2.50	5	1
1:B:52:LYS:N	1:B:68:GLU:HB2	0.42	2.30	10	1
1:B:62:LYS:HB2	1:B:62:LYS:NZ	0.42	2.29	12	1
1:A:49:TYR:HB2	1:A:52:LYS:CE	0.42	2.45	13	1
1:A:24:LYS:HZ2	1:A:49:TYR:N	0.42	2.12	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:27:LEU:CD1	1:B:39:THR:O	0.42	2.67	17	1
1:A:43:ALA:O	1:A:45:TYR:CZ	0.42	2.73	18	1
1:A:11:ASN:OD1	1:A:11:ASN:C	0.42	2.58	21	1
1:A:83:ASN:OD1	1:A:85:LYS:CD	0.42	2.67	22	1
1:B:20:LEU:O	1:B:21:ASN:C	0.42	2.58	23	1
1:A:36:LEU:O	1:A:80:ASN:HB2	0.41	2.14	1	1
1:A:55:GLY:N	1:B:92:LYS:HE3	0.41	2.30	2	1
1:B:62:LYS:CB	1:B:62:LYS:HZ2	0.41	2.28	2	1
1:A:24:LYS:NZ	1:A:24:LYS:CA	0.41	2.83	4	1
1:A:26:LYS:HD2	1:A:41:SER:O	0.41	2.15	4	1
1:A:22:LYS:O	1:A:49:TYR:HB2	0.41	2.15	5	1
1:A:49:TYR:C	1:A:50:GLU:O	0.41	2.58	23	2
1:A:24:LYS:HE3	1:A:48:SER:N	0.41	2.30	14	1
1:A:81:LYS:O	1:A:81:LYS:HD2	0.41	2.15	18	1
1:A:45:TYR:CG	1:A:47:ILE:CG1	0.41	3.03	24	1
1:A:76:SER:O	1:A:80:ASN:N	0.41	2.51	5	1
1:B:10:MET:SD	1:B:34:ASN:CB	0.41	3.08	5	1
1:A:27:LEU:HD11	1:A:38:ALA:CB	0.41	2.45	12	2
1:B:26:LYS:CB	1:B:26:LYS:NZ	0.41	2.83	12	1
1:B:27:LEU:HD11	1:B:29:LEU:HD13	0.41	1.92	17	2
1:B:46:GLY:O	1:B:47:ILE:C	0.41	2.58	20	1
1:B:27:LEU:HD11	1:B:38:ALA:CB	0.41	2.45	21	3
1:A:13:ILE:O	1:A:17:ASN:HB3	0.41	2.15	22	1
1:A:79:ILE:O	1:A:82:LEU:N	0.41	2.49	22	1
1:B:90:GLU:OE2	1:B:91:ILE:N	0.41	2.46	22	1
1:B:45:TYR:CE2	1:B:47:ILE:CD1	0.41	3.04	23	1
1:B:82:LEU:HD13	1:B:84:ILE:N	0.41	2.29	23	1
1:B:36:LEU:O	1:B:37:LYS:HG2	0.41	2.15	8	2
1:B:26:LYS:HD2	1:B:41:SER:O	0.41	2.15	4	1
1:B:22:LYS:H	1:B:24:LYS:HZ1	0.41	1.56	6	1
1:B:58:VAL:CG2	1:B:59:ASN:OD1	0.41	2.55	7	1
1:A:32:ASN:ND2	1:A:35:GLN:HB2	0.41	2.30	8	1
1:B:32:ASN:ND2	1:B:35:GLN:HB2	0.41	2.30	8	1
1:B:44:GLY:C	1:B:71:THR:CB	0.41	2.89	8	1
1:A:62:LYS:HB2	1:A:62:LYS:HZ2	0.41	1.76	12	1
1:B:45:TYR:O	1:B:47:ILE:CD1	0.41	2.69	15	1
1:A:27:LEU:CD1	1:A:39:THR:O	0.41	2.67	17	1
1:B:58:VAL:HG13	1:B:59:ASN:HD21	0.41	1.71	18	1
1:A:24:LYS:HG2	1:A:48:SER:N	0.41	2.30	20	1
1:B:47:ILE:C	1:B:49:TYR:H	0.41	2.18	22	1
1:A:45:TYR:CE2	1:A:47:ILE:CD1	0.41	3.04	23	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:45:TYR:CZ	1:B:71:THR:HG21	0.41	2.50	23	1
1:B:23:GLY:O	1:B:48:SER:CB	0.41	2.67	24	1
1:A:58:VAL:CG2	1:A:85:LYS:HD3	0.41	2.45	1	1
1:A:23:GLY:C	1:A:24:LYS:O	0.41	2.58	6	2
1:B:27:LEU:HD12	1:B:28:SER:N	0.41	2.31	19	2
1:A:45:TYR:CE1	1:A:47:ILE:HG12	0.41	2.50	4	1
1:A:64:TYR:CD1	1:A:64:TYR:C	0.41	2.93	5	1
1:A:10:MET:N	1:A:13:ILE:HD11	0.41	2.31	9	1
1:A:52:LYS:N	1:A:68:GLU:HB2	0.41	2.30	10	1
1:A:34:ASN:O	1:A:84:ILE:HG13	0.41	2.13	13	1
1:A:23:GLY:HA3	1:A:46:GLY:H	0.41	1.72	15	1
1:A:21:ASN:ND2	1:A:29:LEU:HD21	0.41	2.30	19	1
1:A:64:TYR:CD2	1:A:64:TYR:C	0.41	2.89	1	1
1:B:24:LYS:HE2	1:B:24:LYS:H	0.41	1.75	25	3
1:B:13:ILE:CD1	1:B:14:ASN:ND2	0.41	2.82	6	2
1:A:45:TYR:CG	1:A:47:ILE:HD13	0.41	2.51	13	1
1:A:27:LEU:HA	1:A:39:THR:O	0.41	2.14	15	1
1:A:45:TYR:CE1	1:A:71:THR:HG22	0.41	2.50	17	1
1:B:81:LYS:O	1:B:81:LYS:HD2	0.41	2.15	18	1
1:A:82:LEU:HD12	1:A:82:LEU:N	0.41	2.29	19	1
1:A:47:ILE:HD13	1:A:47:ILE:H	0.41	1.75	21	1
1:B:21:ASN:OD1	1:B:27:LEU:HD23	0.41	2.15	21	1
1:A:21:ASN:ND2	1:A:22:LYS:N	0.41	2.62	22	1
1:B:10:MET:N	1:B:10:MET:SD	0.41	2.94	24	1
1:B:40:SER:OG	1:B:73:GLY:CA	0.41	2.68	5	1
1:B:10:MET:N	1:B:13:ILE:HD11	0.41	2.31	9	1
1:A:52:LYS:HB3	1:B:94:ILE:HG21	0.41	1.90	10	1
1:B:67:ASN:O	1:B:70:SER:N	0.41	2.53	12	1
1:A:45:TYR:O	1:A:47:ILE:CD1	0.41	2.69	15	1
1:A:27:LEU:HD11	1:A:29:LEU:HD13	0.41	1.92	17	2
1:B:21:ASN:ND2	1:B:29:LEU:HD21	0.41	2.30	19	1
1:A:49:TYR:HB3	1:A:52:LYS:HZ1	0.41	1.73	3	1
1:A:10:MET:SD	1:A:34:ASN:CB	0.41	3.08	5	1
1:B:20:LEU:CD1	1:B:36:LEU:HD22	0.41	2.45	7	1
1:A:16:VAL:HG22	1:B:90:GLU:OE2	0.41	2.15	10	1
1:A:56:ILE:HG13	1:B:91:ILE:CG2	0.41	2.45	12	1
1:A:47:ILE:O	1:A:48:SER:HB3	0.41	2.15	13	1
1:B:77:ASN:HA	1:B:80:ASN:ND2	0.41	2.31	17	1
1:A:13:ILE:O	1:A:16:VAL:N	0.41	2.52	18	1
1:A:32:ASN:ND2	1:A:35:GLN:CG	0.41	2.84	18	1
1:B:80:ASN:HD22	1:B:80:ASN:C	0.41	2.11	20	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:11:ASN:OD1	1:B:11:ASN:C	0.41	2.58	21	1
1:A:45:TYR:CZ	1:A:71:THR:HG21	0.41	2.50	23	1
1:A:24:LYS:CE	1:A:68:GLU:OE1	0.41	2.69	2	1
1:B:24:LYS:CE	1:B:24:LYS:H	0.41	2.29	3	1
1:B:24:LYS:NZ	1:B:24:LYS:CA	0.41	2.83	4	1
1:A:12:SER:CB	1:A:86:GLY:O	0.41	2.68	8	1
1:A:20:LEU:HA	1:A:54:TRP:CH2	0.41	2.50	8	1
1:A:24:LYS:HZ3	1:A:24:LYS:HA	0.41	1.76	8	1
1:A:59:ASN:O	1:A:90:GLU:CB	0.41	2.69	10	1
1:A:59:ASN:HB2	1:A:88:TYR:CZ	0.41	2.51	10	2
1:B:27:LEU:HD12	1:B:38:ALA:HB1	0.41	1.92	11	1
1:A:34:ASN:O	1:A:83:ASN:ND2	0.41	2.54	14	1
1:B:49:TYR:O	1:B:50:GLU:HB2	0.41	2.16	20	1
1:A:21:ASN:OD1	1:A:27:LEU:HD23	0.41	2.15	21	1
1:A:83:ASN:C	1:A:84:ILE:O	0.41	2.60	1	2
1:A:91:ILE:CD1	1:B:56:ILE:HG23	0.41	2.29	1	1
1:B:58:VAL:CG2	1:B:85:LYS:CD	0.41	2.99	1	1
1:B:58:VAL:CG2	1:B:85:LYS:HD3	0.41	2.45	1	1
1:B:24:LYS:CE	1:B:68:GLU:OE1	0.41	2.69	2	1
1:A:27:LEU:HD12	1:A:28:SER:N	0.41	2.31	19	2
1:A:40:SER:OG	1:A:73:GLY:CA	0.41	2.68	5	1
1:A:44:GLY:C	1:A:71:THR:CB	0.41	2.89	8	1
1:B:59:ASN:HB2	1:B:88:TYR:CZ	0.41	2.51	10	1
1:A:54:TRP:N	1:A:66:PHE:O	0.41	2.54	11	1
1:A:49:TYR:O	1:A:52:LYS:HE2	0.41	2.15	13	1
1:B:34:ASN:HB2	1:B:85:LYS:CA	0.41	2.46	13	1
1:A:23:GLY:C	1:A:24:LYS:HD3	0.41	2.36	14	1
1:B:23:GLY:C	1:B:24:LYS:HD3	0.41	2.36	14	1
1:B:66:PHE:HD2	1:B:66:PHE:H	0.41	1.56	14	1
1:A:77:ASN:HA	1:A:80:ASN:ND2	0.41	2.31	17	1
1:B:45:TYR:CE1	1:B:71:THR:HG22	0.41	2.50	17	1
1:B:66:PHE:N	1:B:66:PHE:HD1	0.41	2.11	17	1
1:B:32:ASN:ND2	1:B:35:GLN:CG	0.41	2.84	18	1
1:B:56:ILE:HD13	1:B:64:TYR:C	0.41	2.36	18	1
1:B:24:LYS:HG2	1:B:48:SER:N	0.41	2.30	20	1
1:A:56:ILE:HD13	1:A:64:TYR:O	0.41	2.16	21	1
1:B:81:LYS:HG3	1:B:82:LEU:N	0.41	2.31	22	1
1:A:22:LYS:HD2	1:A:54:TRP:HE1	0.41	1.76	23	1
1:A:24:LYS:C	1:A:25:GLY:O	0.41	2.59	23	1
1:A:45:TYR:CD2	1:A:71:THR:CG2	0.41	3.04	23	1
1:A:88:TYR:CD1	1:A:89:ILE:O	0.41	2.74	23	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:88:TYR:CD1	1:B:89:ILE:O	0.41	2.74	23	1
1:A:23:GLY:N	1:A:48:SER:HB3	0.41	2.31	24	1
1:A:50:GLU:O	1:A:68:GLU:HB2	0.41	2.16	24	1
1:A:20:LEU:HG	1:A:54:TRP:CZ2	0.41	2.51	3	2
1:B:45:TYR:CE1	1:B:47:ILE:HG12	0.41	2.50	4	1
1:B:50:GLU:CB	1:B:52:LYS:HZ3	0.41	2.29	6	1
1:A:20:LEU:CD1	1:A:36:LEU:HD22	0.41	2.45	7	1
1:A:89:ILE:O	1:A:90:GLU:CB	0.41	2.69	12	1
1:B:24:LYS:CB	1:B:47:ILE:HD12	0.41	2.47	14	1
1:A:45:TYR:CD1	1:A:71:THR:HG22	0.41	2.51	17	1
1:A:88:TYR:CD2	1:A:89:ILE:O	0.41	2.74	20	1
1:B:22:LYS:HD2	1:B:54:TRP:HE1	0.41	1.76	23	1
1:A:24:LYS:H	1:A:24:LYS:HE2	0.41	1.75	25	1
1:A:88:TYR:OH	1:A:90:GLU:HG2	0.41	2.15	25	1
1:A:45:TYR:CD2	1:A:45:TYR:C	0.40	2.92	1	1
1:A:52:LYS:CB	1:B:94:ILE:HG22	0.40	2.46	3	1
1:B:20:LEU:HG	1:B:54:TRP:CZ2	0.40	2.51	25	3
1:B:20:LEU:HA	1:B:54:TRP:CH2	0.40	2.50	8	1
1:A:25:GLY:CA	1:A:43:ALA:HA	0.40	2.47	14	1
1:B:26:LYS:CE	1:B:42:ASN:ND2	0.40	2.85	15	1
1:B:56:ILE:O	1:B:57:PHE:CD2	0.40	2.71	15	1
1:B:34:ASN:CG	1:B:86:GLY:N	0.40	2.75	21	1
1:B:59:ASN:CG	1:B:88:TYR:CD1	0.40	2.94	21	1
1:A:54:TRP:CZ2	1:B:93:GLN:HB3	0.40	2.50	23	1
1:A:10:MET:N	1:A:10:MET:SD	0.40	2.94	24	1
1:B:81:LYS:O	1:B:81:LYS:HD3	0.40	2.16	24	1
1:B:52:LYS:HZ2	1:B:52:LYS:CB	0.40	2.24	25	1
1:B:56:ILE:C	1:B:62:LYS:NZ	0.40	2.75	3	1
1:B:13:ILE:CD1	1:B:13:ILE:N	0.40	2.83	6	1
1:B:16:VAL:HG12	1:B:20:LEU:HD23	0.40	1.91	8	1
1:B:54:TRP:N	1:B:66:PHE:O	0.40	2.55	8	2
1:B:81:LYS:C	1:B:83:ASN:N	0.40	2.75	10	1
1:A:34:ASN:HB2	1:A:85:LYS:CA	0.40	2.46	13	1
1:B:34:ASN:O	1:B:84:ILE:HG12	0.40	2.14	13	1
1:B:49:TYR:O	1:B:52:LYS:HE2	0.40	2.15	13	1
1:A:26:LYS:CE	1:A:42:ASN:ND2	0.40	2.85	15	1
1:A:56:ILE:O	1:A:57:PHE:CD2	0.40	2.71	15	1
1:A:34:ASN:HA	1:A:86:GLY:N	0.40	2.32	15	2
1:A:27:LEU:CD2	1:A:29:LEU:HD11	0.40	2.45	12	1
1:B:43:ALA:O	1:B:45:TYR:CZ	0.40	2.73	18	1
1:B:47:ILE:HD13	1:B:47:ILE:H	0.40	1.75	21	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:70:SER:O	1:B:71:THR:HG23	0.40	2.16	22	1
1:B:24:LYS:C	1:B:25:GLY:O	0.40	2.59	23	1
1:A:34:ASN:HB2	1:A:85:LYS:C	0.40	2.37	25	1
1:B:83:ASN:C	1:B:84:ILE:O	0.40	2.60	1	2
1:B:51:ASP:O	1:B:51:ASP:CG	0.40	2.58	8	1
1:B:10:MET:O	1:B:13:ILE:CG1	0.40	2.70	9	1
1:A:79:ILE:O	1:A:82:LEU:CG	0.40	2.70	10	1
1:A:93:GLN:HB3	1:B:19:LYS:NZ	0.40	2.32	11	1
1:A:59:ASN:CG	1:A:88:TYR:CD1	0.40	2.95	21	1
1:B:23:GLY:N	1:B:48:SER:HB3	0.40	2.31	24	1
1:B:44:GLY:O	1:B:45:TYR:CB	0.40	2.67	24	1
1:B:50:GLU:O	1:B:68:GLU:HB2	0.40	2.16	24	1
1:A:58:VAL:CG2	1:A:85:LYS:CD	0.40	2.99	1	1
1:A:54:TRP:HB2	1:A:66:PHE:O	0.40	2.17	2	1
1:B:56:ILE:O	1:B:63:VAL:N	0.40	2.55	9	1
1:A:16:VAL:HG13	1:B:91:ILE:HG13	0.40	1.93	11	1
1:A:91:ILE:CG2	1:B:56:ILE:HG13	0.40	2.46	12	1
1:B:45:TYR:CG	1:B:47:ILE:CD1	0.40	3.04	13	1
1:B:88:TYR:OH	1:B:90:GLU:HG2	0.40	2.15	25	1

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	84/94 (89%)	49±3 (59±3%)	18±2 (21±3%)	17±3 (20±3%)	0	2
1	B	84/94 (89%)	49±3 (59±3%)	18±2 (21±3%)	17±3 (20±3%)	0	2
All	All	4200/4700 (89%)	2473 (59%)	882 (21%)	845 (20%)	0	2

All 72 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	62	LYS	25
1	A	76	SER	25

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Mol	Chain	Res	Type	Models (Total)
1	A	79	ILE	25
1	A	84	ILE	25
1	B	62	LYS	25
1	B	76	SER	25
1	B	79	ILE	25
1	B	84	ILE	25
1	A	63	VAL	24
1	A	80	ASN	24
1	B	63	VAL	24
1	B	80	ASN	24
1	A	11	ASN	23
1	B	11	ASN	23
1	A	50	GLU	22
1	B	50	GLU	22
1	A	33	GLY	20
1	A	71	THR	20
1	B	33	GLY	20
1	B	71	THR	20
1	A	24	LYS	16
1	B	24	LYS	16
1	A	48	SER	16
1	B	48	SER	16
1	A	46	GLY	15
1	A	59	ASN	15
1	B	59	ASN	15
1	A	20	LEU	14
1	A	70	SER	14
1	B	20	LEU	14
1	B	46	GLY	14
1	B	70	SER	14
1	A	42	ASN	10
1	A	44	GLY	10
1	B	42	ASN	10
1	B	44	GLY	10
1	A	72	VAL	9
1	B	72	VAL	9
1	A	25	GLY	9
1	B	25	GLY	9
1	A	75	ILE	7
1	B	75	ILE	7
1	A	47	ILE	7
1	B	47	ILE	7

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Mol	Chain	Res	Type	Models (Total)
1	A	43	ALA	6
1	B	43	ALA	6
1	A	13	ILE	5
1	B	13	ILE	5
1	A	21	ASN	5
1	A	87	MET	5
1	B	21	ASN	5
1	B	87	MET	5
1	A	23	GLY	5
1	B	23	GLY	5
1	A	83	ASN	4
1	B	83	ASN	4
1	A	45	TYR	4
1	B	45	TYR	4
1	A	15	SER	3
1	B	15	SER	3
1	A	22	LYS	3
1	B	22	LYS	3
1	A	86	GLY	3
1	B	86	GLY	3
1	A	68	GLU	2
1	B	68	GLU	2
1	A	49	TYR	1
1	B	49	TYR	1
1	A	51	ASP	1
1	B	51	ASP	1
1	A	34	ASN	1
1	B	34	ASN	1

6.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	74/82 (90%)	42±3 (57±4%)	32±3 (43±4%)	0	3
1	B	74/82 (90%)	42±3 (57±4%)	32±3 (43±4%)	0	3
All	All	3700/4100 (90%)	2104 (57%)	1596 (43%)	0	3

All 122 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	19	LYS	25
1	A	29	LEU	25
1	A	81	LYS	25
1	A	89	ILE	25
1	A	93	GLN	25
1	B	19	LYS	25
1	B	29	LEU	25
1	B	81	LYS	25
1	B	89	ILE	25
1	B	93	GLN	25
1	A	28	SER	24
1	B	28	SER	24
1	A	30	SER	24
1	B	30	SER	24
1	A	26	LYS	23
1	A	42	ASN	23
1	B	26	LYS	23
1	B	42	ASN	23
1	A	10	MET	23
1	B	10	MET	23
1	A	20	LEU	22
1	B	20	LEU	22
1	A	67	ASN	22
1	B	67	ASN	22
1	A	31	MET	21
1	A	41	SER	21
1	B	31	MET	21
1	B	41	SER	21
1	A	17	ASN	20
1	A	71	THR	20
1	B	17	ASN	20
1	B	71	THR	20
1	A	74	ASN	20
1	B	74	ASN	20
1	A	47	ILE	19
1	A	48	SER	19
1	A	66	PHE	19
1	B	47	ILE	19
1	B	48	SER	19
1	B	66	PHE	19
1	A	18	ASP	18

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Mol	Chain	Res	Type	Models (Total)
1	B	18	ASP	18
1	A	85	LYS	18
1	B	85	LYS	18
1	A	34	ASN	17
1	A	82	LEU	17
1	B	34	ASN	17
1	B	82	LEU	17
1	A	24	LYS	17
1	B	24	LYS	17
1	A	53	ASN	17
1	B	53	ASN	17
1	A	62	LYS	16
1	B	62	LYS	16
1	A	59	ASN	15
1	B	59	ASN	15
1	A	45	TYR	15
1	B	45	TYR	15
1	A	13	ILE	13
1	A	90	GLU	13
1	B	13	ILE	13
1	B	90	GLU	13
1	A	91	ILE	13
1	B	91	ILE	13
1	A	76	SER	11
1	B	76	SER	11
1	A	57	PHE	10
1	B	57	PHE	10
1	A	49	TYR	10
1	B	49	TYR	10
1	A	12	SER	9
1	A	77	ASN	9
1	A	84	ILE	9
1	B	12	SER	9
1	B	77	ASN	9
1	B	84	ILE	9
1	A	15	SER	9
1	B	15	SER	9
1	A	78	ASP	8
1	B	78	ASP	8
1	A	68	GLU	8
1	A	80	ASN	8
1	B	68	GLU	8

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Mol	Chain	Res	Type	Models (Total)
1	B	80	ASN	8
1	A	87	MET	7
1	B	87	MET	7
1	A	37	LYS	6
1	B	37	LYS	6
1	A	92	LYS	6
1	B	92	LYS	6
1	A	65	THR	6
1	B	65	THR	6
1	A	11	ASN	5
1	A	63	VAL	5
1	A	83	ASN	5
1	B	11	ASN	5
1	B	63	VAL	5
1	B	83	ASN	5
1	A	72	VAL	5
1	B	72	VAL	5
1	A	32	ASN	4
1	B	32	ASN	4
1	A	40	SER	4
1	B	40	SER	4
1	A	51	ASP	4
1	B	51	ASP	4
1	A	52	LYS	3
1	A	69	LYS	3
1	B	52	LYS	3
1	B	69	LYS	3
1	A	27	LEU	3
1	B	27	LEU	3
1	A	21	ASN	2
1	B	21	ASN	2
1	A	54	TRP	2
1	B	54	TRP	2
1	A	14	ASN	1
1	B	14	ASN	1
1	A	22	LYS	1
1	B	22	LYS	1
1	A	35	GLN	1
1	B	35	GLN	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 19% for the well-defined parts and 19% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *pdb_deposit_nmrstar.star*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	424
Number of shifts mapped to atoms	424
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	93	-0.62 ± 0.15	Should be applied
$^{13}\text{C}_\beta$	83	-0.32 ± 0.16	None needed (< 0.5 ppm)
$^{13}\text{C}'$	65	-0.27 ± 0.23	None needed (< 0.5 ppm)
^{15}N	91	-0.16 ± 0.60	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 19%, i.e. 388 atoms were assigned a chemical shift out of a possible 2052. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	313/850 (37%)	84/340 (25%)	146/340 (43%)	83/170 (49%)
Sidechain	75/1078 (7%)	0/630 (0%)	75/394 (19%)	0/54 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/124 (0%)	0/64 (0%)	0/58 (0%)	0/2 (0%)
Overall	388/2052 (19%)	84/1034 (8%)	221/792 (28%)	83/226 (37%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 19%, i.e. 424 atoms were assigned a chemical shift out of a possible 2280. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	341/940 (36%)	92/376 (24%)	158/376 (42%)	91/188 (48%)
Sidechain	83/1216 (7%)	0/710 (0%)	83/444 (19%)	0/62 (0%)
Aromatic	0/124 (0%)	0/64 (0%)	0/58 (0%)	0/2 (0%)
Overall	424/2280 (19%)	92/1150 (8%)	241/878 (27%)	91/252 (36%)

7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition.

Random coil index (RCI) for chain A:

