



# Full wwPDB NMR Structure Validation Report ⓘ

Jun 6, 2020 – 07:47 am BST

PDB ID : 6CCX  
Title : NMR data-driven model of GTPase KRas-GMPPNP:Cmpd2 complex tethered to a nanodisc  
Authors : Fang, Z.; Marshall, C.B.; Nishikawa, T.; Gossert, A.D.; Jansen, J.M.; Jahnke, W.; Ikura, M.  
Deposited on : 2018-02-07

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

We welcome your comments at [validation@mail.wwpdb.org](mailto: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.

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

Cyrange	:	Kirchner and Güntert (2011)
NmrClust	:	Kelley et al. (1996)
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
buster-report	:	1.1.7 (2018)
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	:	2.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

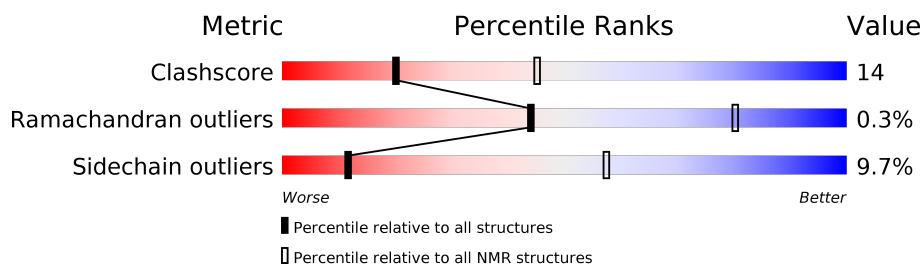
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 3%.

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  $\geq 3$ , 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	200	80% 17% ...
1	C	200	78% 20% ...
2	B	187	76% 15% 7% .

## 2 Ensemble composition and analysis ⓘ

This entry contains 10 models. Model 10 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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:201-A:396, C:401-C:596 (392)	0.26	10
2	B:2-B:172 (171)	0.41	3

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

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

The models can be grouped into 3 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 4
2	5, 6, 8, 9
3	7, 10

### 3 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 9535 atoms, of which 429 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Apolipoprotein A-I.

Mol	Chain	Residues	Atoms						Trace
1	A	198	Total	C	H	N	O	S	0
			1645	1019	22	287	314	3	
1	C	198	Total	C	H	N	O	S	0
			1646	1019	22	287	315	3	

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	199	GLY	-	expression tag	UNP P02647
A	200	PRO	-	expression tag	UNP P02647
C	397	GLY	-	expression tag	UNP P02647
C	398	PRO	-	expression tag	UNP P02647

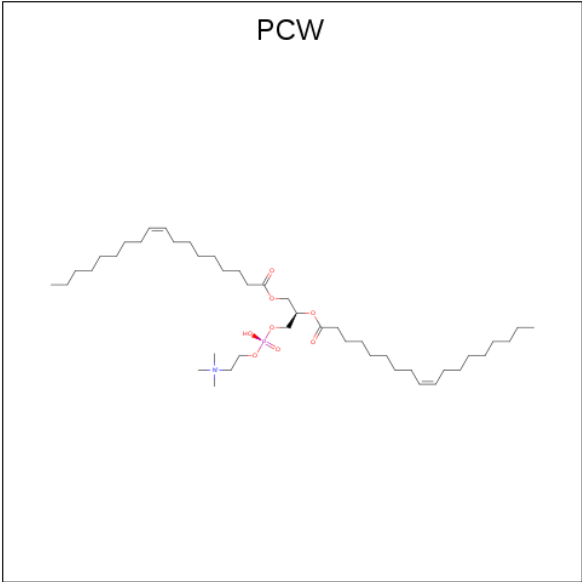
- Molecule 2 is a protein called GTPase KRas.

Mol	Chain	Residues	Atoms						Trace
2	B	185	Total	C	H	N	O	S	0
			1842	926	363	257	287	9	

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-1	GLY	-	expression tag	UNP P01116
B	0	SER	-	expression tag	UNP P01116
B	12	VAL	GLY	engineered mutation	UNP P01116

- Molecule 3 is 1,2-DIOLEOYL-SN-GLYCERO-3-PHOSPHOCHOLINE (three-letter code: PCW) (formula:  $C_{44}H_{85}NO_8P$ ).



Mol	Chain	Residues	Atoms				
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	B	1	Total	C	N	O	P
			54	44	1	8	1
3	B	1	Total	C	N	O	P
			54	44	1	8	1
3	B	1	Total	C	N	O	P
			54	44	1	8	1
3	B	1	Total	C	N	O	P
			54	44	1	8	1

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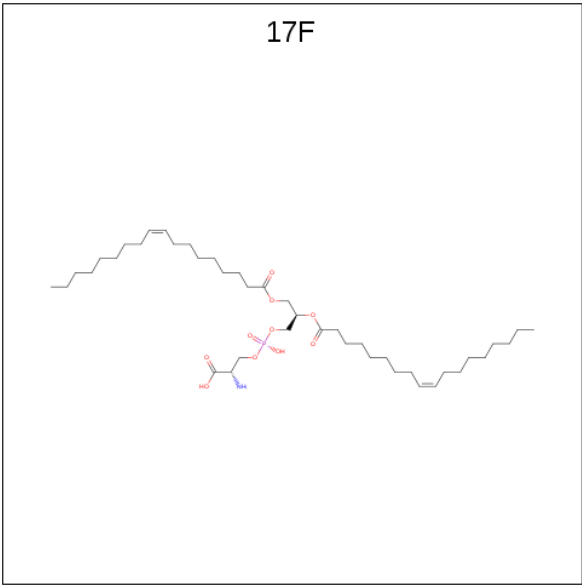
[illegible]

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Mol	Chain	Residues	Atoms				
3	C	1	Total	C	N	O	P
			54	44	1	8	1
3	C	1	Total	C	N	O	P
			54	44	1	8	1
3	C	1	Total	C	N	O	P
			54	44	1	8	1
3	C	1	Total	C	N	O	P
			54	44	1	8	1
3	C	1	Total	C	N	O	P
			54	44	1	8	1
3	C	1	Total	C	N	O	P
			54	44	1	8	1
3	C	1	Total	C	N	O	P
			54	44	1	8	1

- Molecule 4 is O-[(S)-({(2R)-2,3-bis[(9Z)-octadec-9-enoyloxy]propyl}oxy)(hydroxy)phosphoryl]-L-serine (three-letter code: 17F) (formula: C<sub>42</sub>H<sub>78</sub>NO<sub>10</sub>P).



Mol	Chain	Residues	Atoms				
4	A	1	Total	C	N	O	P
			54	42	1	10	1
4	B	1	Total	C	N	O	P
			54	42	1	10	1
4	B	1	Total	C	N	O	P
			54	42	1	10	1

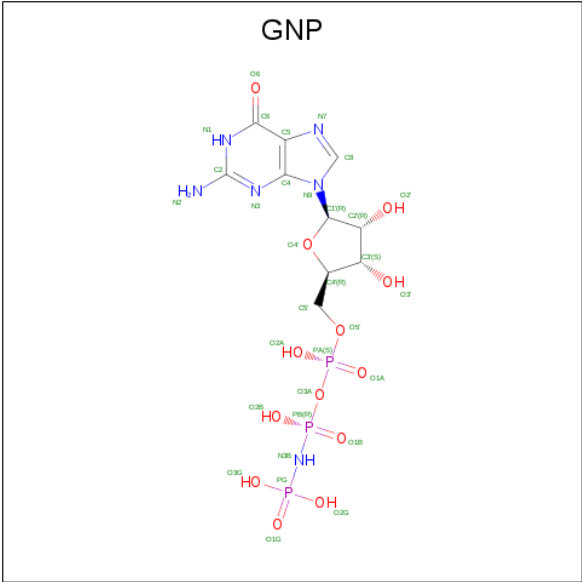
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Mol	Chain	Residues	Atoms				
4	B	1	Total	C	N	O	P
			54	42	1	10	1
4	B	1	Total	C	N	O	P
			54	42	1	10	1
4	B	1	Total	C	N	O	P
			54	42	1	10	1
4	B	1	Total	C	N	O	P
			54	42	1	10	1
4	B	1	Total	C	N	O	P
			54	42	1	10	1
4	B	1	Total	C	N	O	P
			54	42	1	10	1
4	C	1	Total	C	N	O	P
			54	42	1	10	1
4	C	1	Total	C	N	O	P
			54	42	1	10	1
4	C	1	Total	C	N	O	P
			54	42	1	10	1
4	C	1	Total	C	N	O	P
			54	42	1	10	1
4	C	1	Total	C	N	O	P
			54	42	1	10	1
4	C	1	Total	C	N	O	P
			54	42	1	10	1

- Molecule 5 is PHOSPHOAMINOPHOSPHONIC ACID-GUANYLATE ESTER (three-letter code: GNP) (formula: C<sub>10</sub>H<sub>17</sub>N<sub>6</sub>O<sub>13</sub>P<sub>3</sub>).

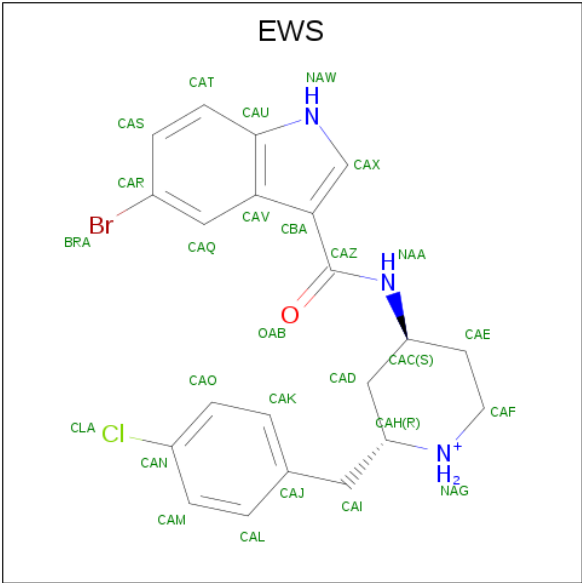


Mol	Chain	Residues	Atoms				
			Total	C	N	O	P
5	B	1	32	10	6	13	3

- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	
			Total	Mg
6	B	1	1	1

- Molecule 7 is (2R,4S)-4-[(5-bromo-1H-indole-3-carbonyl)amino]-2-[(4-chlorophenyl)methyl]piperidin-1-ium (three-letter code: EWS) (formula: C<sub>21</sub>H<sub>22</sub>BrClN<sub>3</sub>O).



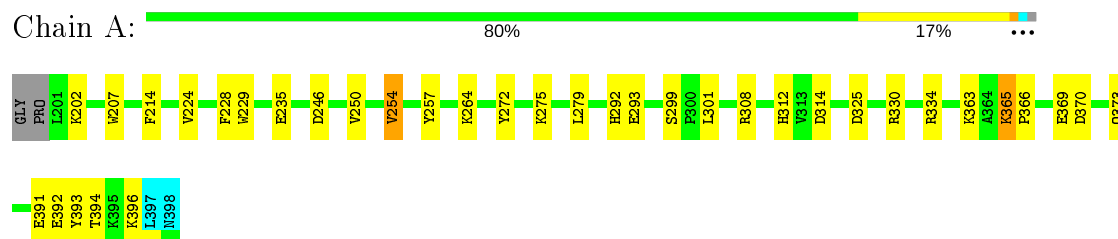
Mol	Chain	Residues	Atoms						
			Total	Br	C	Cl	H	N	O
7	B	1	49	1	21	1	22	3	1

## 4 Residue-property plots [i](#)

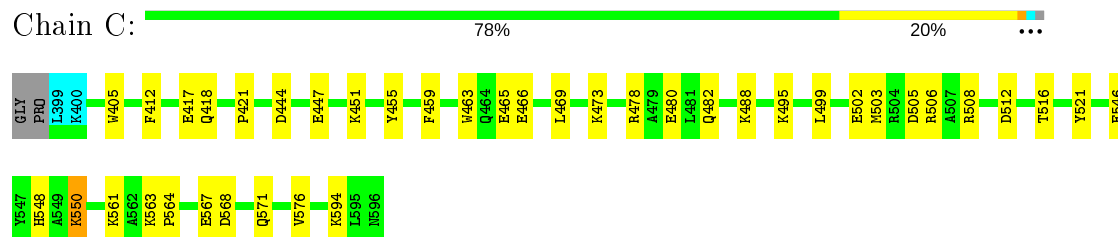
### 4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA and DNA 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.

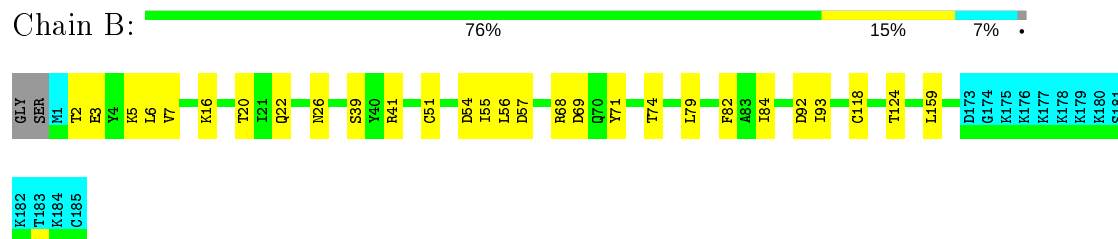
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I



- Molecule 2: GTPase KRas

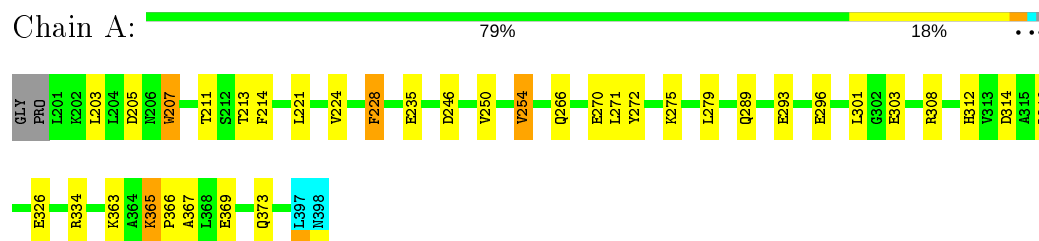


### 4.2 Scores per residue for each member of the ensemble

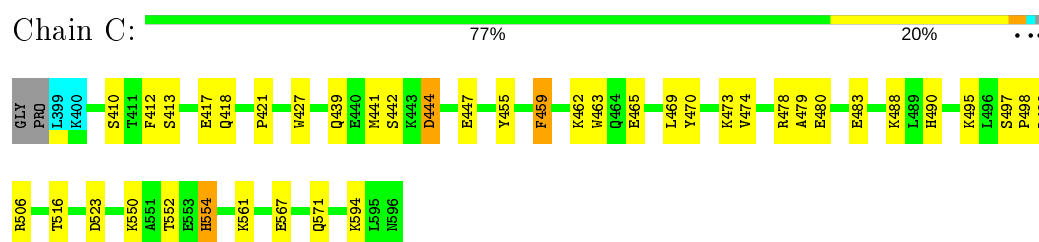
Colouring as in section [4.1](#) above.

### 4.2.1 Score per residue for model 1

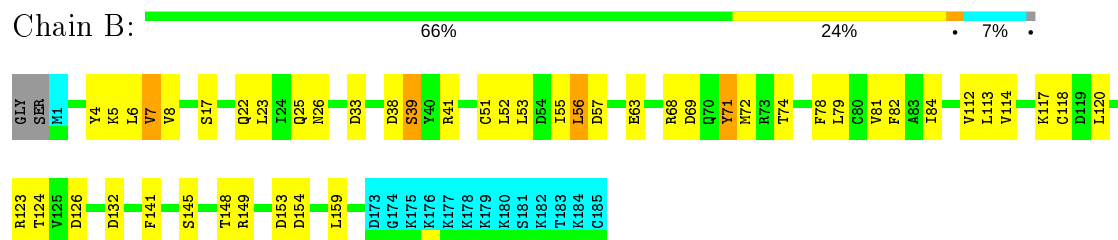
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I

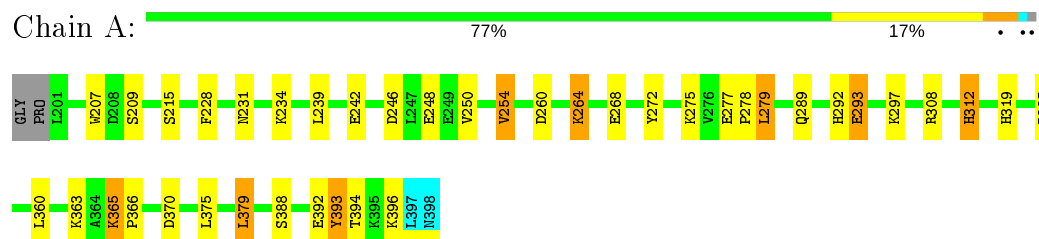


- Molecule 2: GTPase KRas

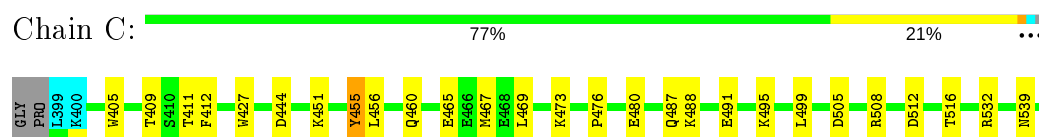


### 4.2.2 Score per residue for model 2

- Molecule 1: Apolipoprotein A-I



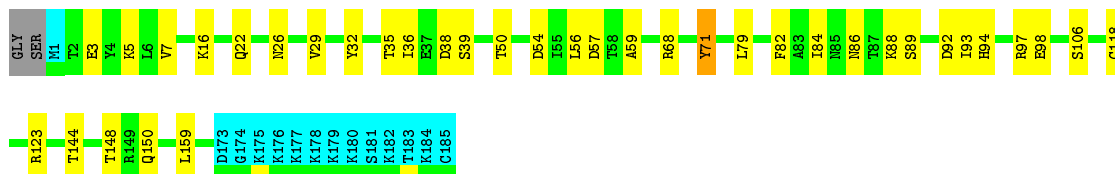
- Molecule 1: Apolipoprotein A-I





### • Molecule 2: GTPase KRas

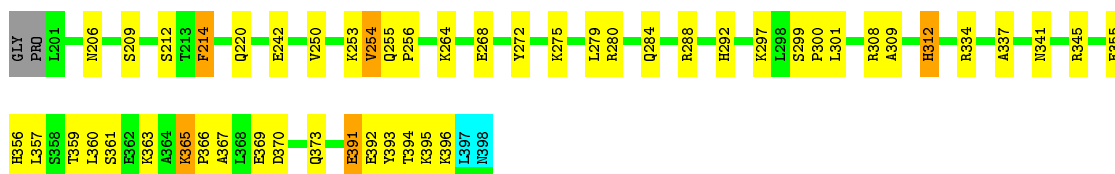
Chain B: 72% 19% 7%



## 4.2.3 Score per residue for model 3

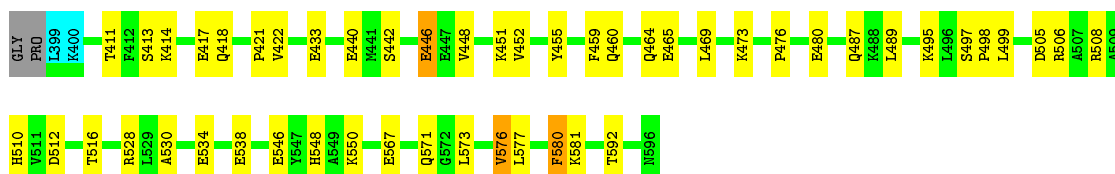
### • Molecule 1: Apolipoprotein A-I

Chain A: 73% 23%



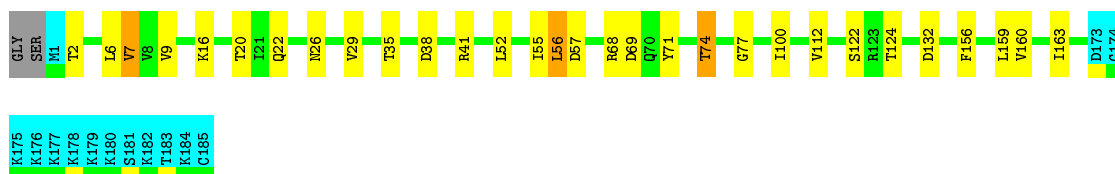
### • Molecule 1: Apolipoprotein A-I

Chain C: 73% 24%



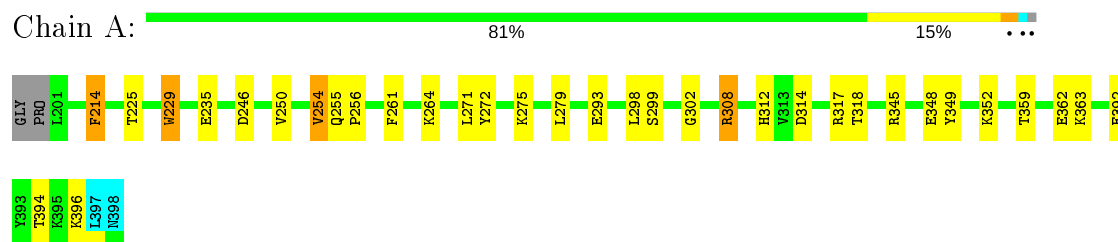
### • Molecule 2: GTPase KRas

Chain B: 75% 14% 7%

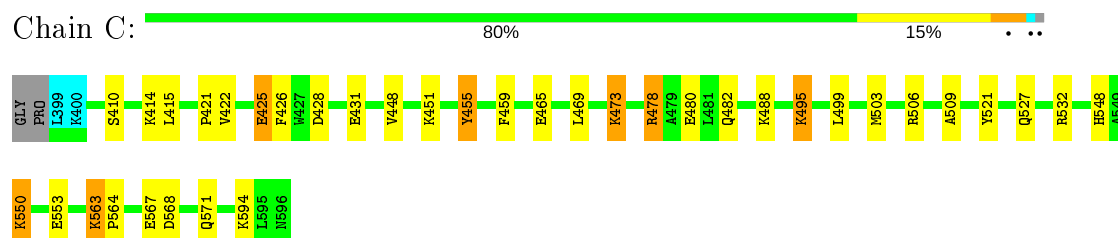


## 4.2.4 Score per residue for model 4

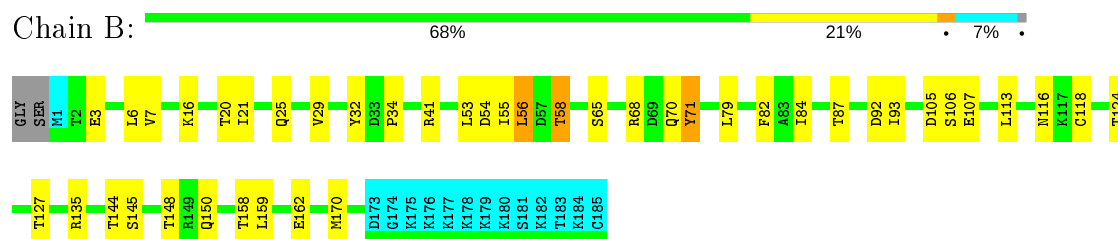
### • Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I

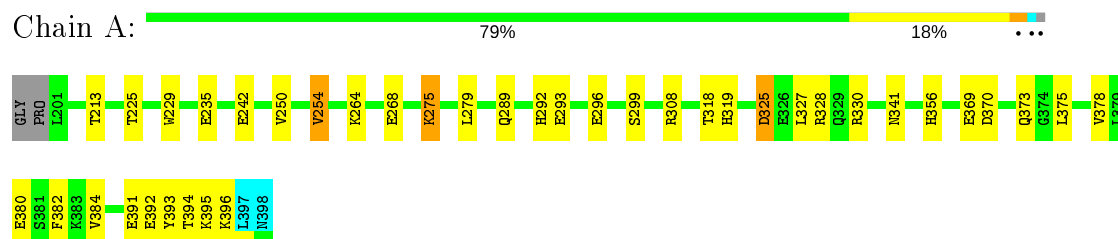


- Molecule 2: GTPase KRas

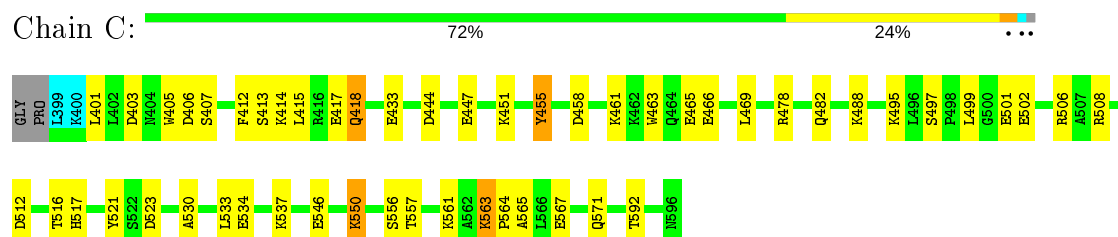


#### 4.2.5 Score per residue for model 5

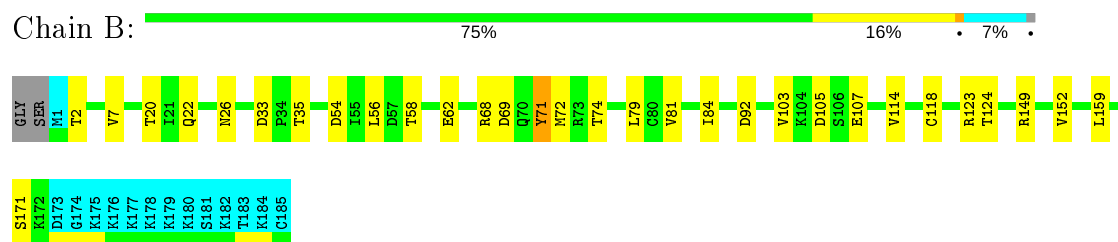
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I

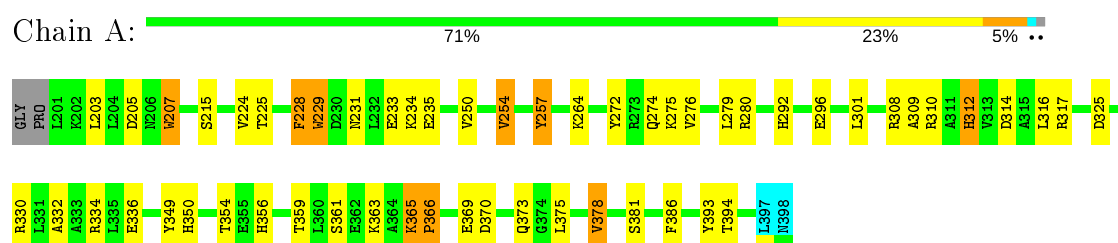


- Molecule 2: GTPase KRas

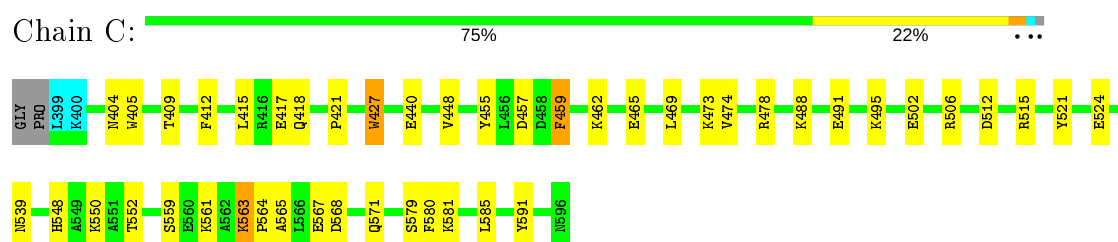


#### 4.2.6 Score per residue for model 6

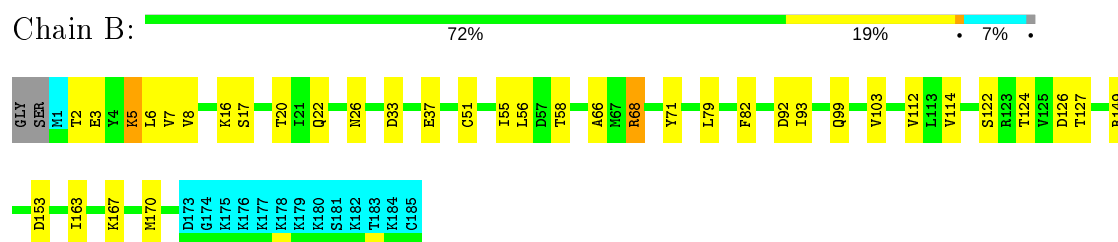
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I



- Molecule 2: GTPase KRas

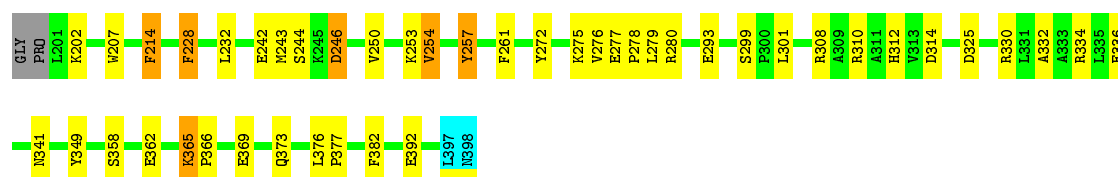


#### 4.2.7 Score per residue for model 7

- Molecule 1: Apolipoprotein A-I

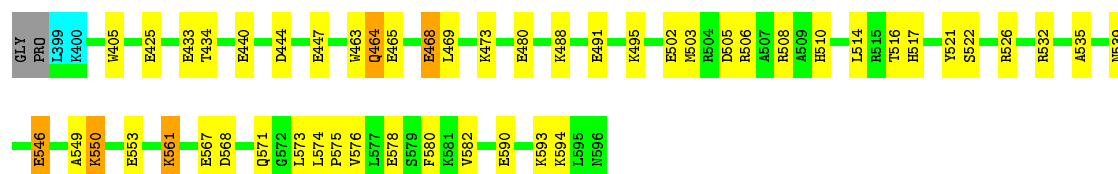






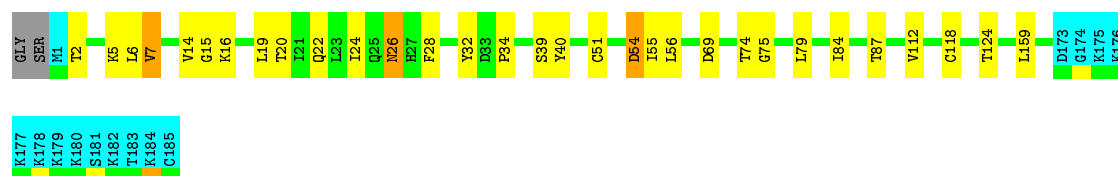
- Molecule 1: Apolipoprotein A-I

Chain C: 73% 23%



- Molecule 2: GTPase KRas

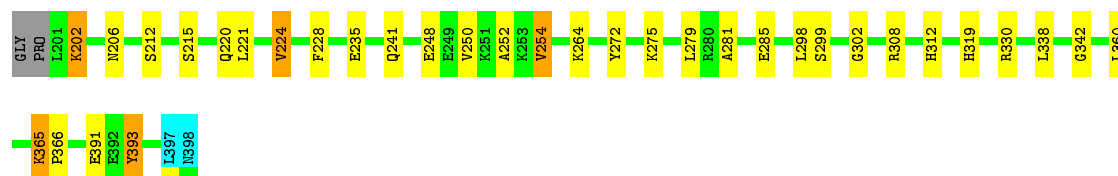
Chain B: 75% 15% 7%



#### 4.2.8 Score per residue for model 8

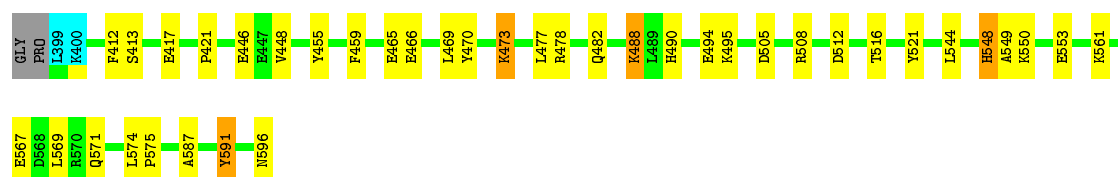
- Molecule 1: Apolipoprotein A-I

Chain A: 81% 15%

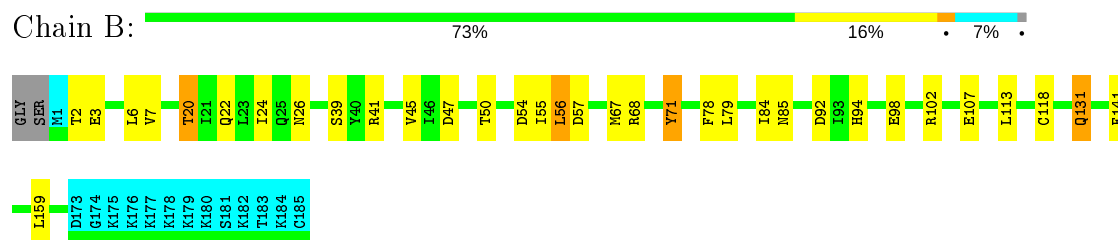


- Molecule 1: Apolipoprotein A-I

Chain C: 79% 18%

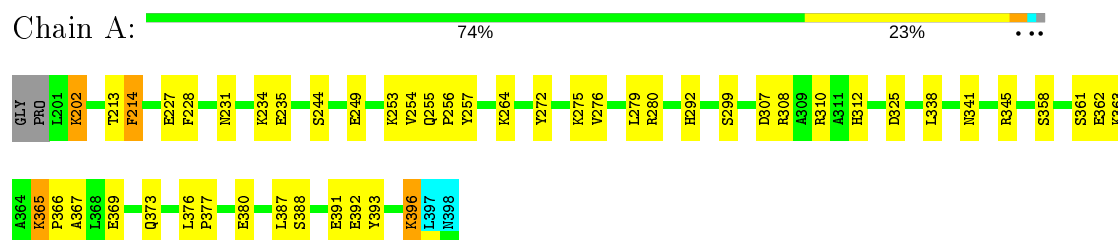


- Molecule 2: GTPase KRas

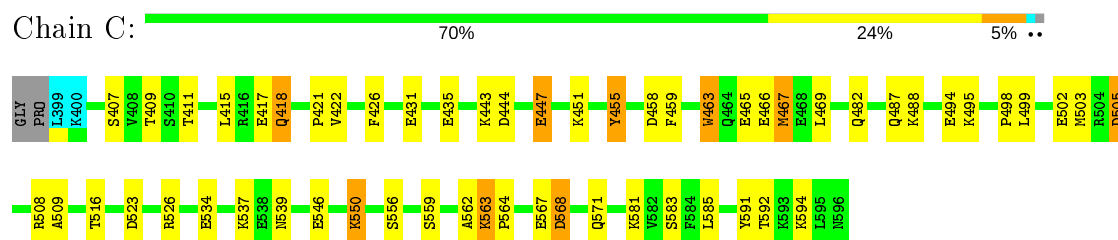


#### 4.2.9 Score per residue for model 9

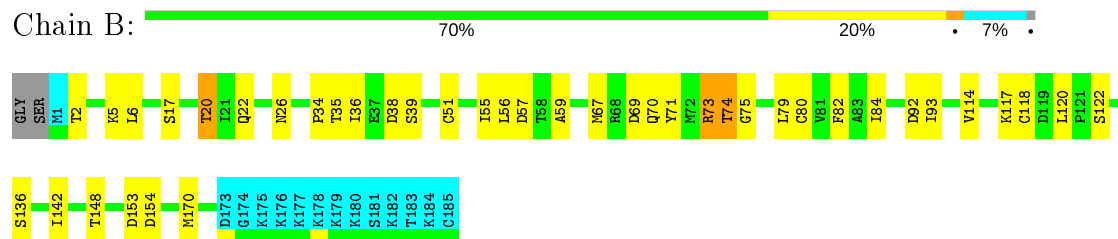
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I

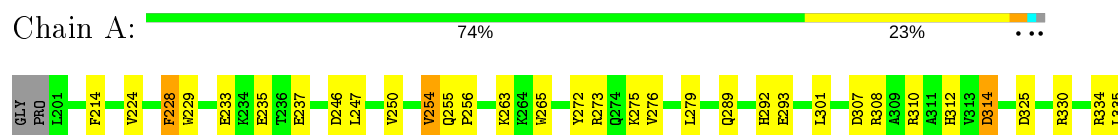


- Molecule 2: GTPase KRas



#### 4.2.10 Score per residue for model 10 (medoid)

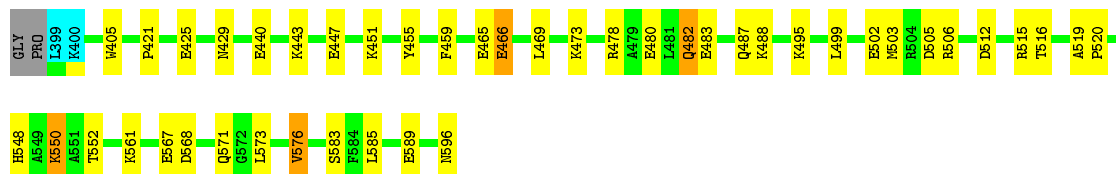
- Molecule 1: Apolipoprotein A-I





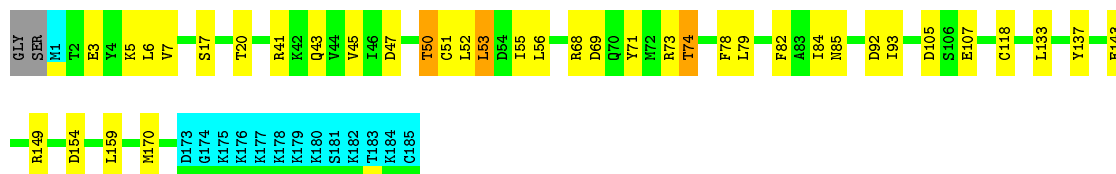
• Molecule 1: Apolipoprotein A-I

Chain C: 76% 20% ..



• Molecule 2: GTPase KRas

Chain B: 71% 19% • 7% •



## 5 Refinement protocol and experimental data overview i

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

Of the 3000 calculated structures, 10 were deposited, based on the following criterion: *10 structures for lowest energy*.

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

Software name	Classification	Version
HADDOCK	structure calculation	
HADDOCK	refinement	
CNS	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 6 of this report.

Chemical shift file(s)	input_cs.cif
Number of chemical shift lists	1
Total number of shifts	268
Number of shifts mapped to atoms	268
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	3%

No validations of the models with respect to experimental NMR restraints is performed at this time.

COVALENT-GEOMETRY INFOmissingINFO

### 5.1 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	1607	22	1609	34±7
1	C	1607	22	1603	35±9
2	B	1368	322	1354	25±5
3	A	540	0	840	45±4
3	B	1350	0	2100	97±6
3	C	1566	0	2436	89±10

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Mol	Chain	Non-H	H(model)	H(added)	Clashes
4	A	54	0	76	4±1
4	B	486	0	684	50±8
4	C	324	0	456	21±4
5	B	32	0	13	1±1
7	B	27	22	0	17±4
All	All	89620	3880	111707	2751

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 14.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:393:TYR:CE1	3:A:407:PCW:C28	1.61	1.83	8	2
1:A:393:TYR:CE1	3:A:407:PCW:C27	1.59	1.82	8	2
1:C:488:LYS:CE	3:C:623:PCW:C28	1.54	1.81	4	2
1:C:488:LYS:CE	3:C:623:PCW:H283	1.54	1.15	4	1
1:C:488:LYS:HD3	3:C:623:PCW:C27	1.53	1.04	4	2
1:C:488:LYS:HE2	3:C:623:PCW:C28	1.51	1.27	4	1
1:C:488:LYS:CD	3:C:623:PCW:H271	1.46	1.38	4	1
1:C:488:LYS:HD3	3:C:623:PCW:C28	1.46	1.36	5	7
1:A:308:ARG:CG	1:C:469:LEU:HD11	1.45	1.42	4	2
1:A:393:TYR:CZ	3:A:407:PCW:H271	1.42	1.48	6	4
1:A:393:TYR:CE1	3:A:407:PCW:H271	1.42	1.46	3	3
1:A:396:LYS:NZ	3:A:407:PCW:H271	1.41	1.22	5	1
1:C:488:LYS:CD	3:C:623:PCW:C28	1.39	1.95	4	4
3:B:207:PCW:H72	7:B:237:EWS:BRA	1.38	1.73	10	1
1:C:488:LYS:CD	3:C:623:PCW:C27	1.38	1.92	4	1
1:C:488:LYS:CD	3:C:623:PCW:H281	1.37	1.48	5	5
1:A:393:TYR:CZ	3:A:407:PCW:C27	1.35	1.97	3	3
2:B:75:GLY:N	7:B:237:EWS:BRA	1.35	2.14	9	1
1:A:393:TYR:CD1	3:A:407:PCW:C28	1.33	2.12	8	2
1:A:393:TYR:CD1	3:A:407:PCW:C27	1.32	2.11	8	2
1:A:393:TYR:CE1	3:A:407:PCW:H281	1.32	1.44	8	1
3:B:201:PCW:H32	7:B:237:EWS:CLA	1.31	1.60	5	1
1:A:393:TYR:CD1	3:A:407:PCW:H281	1.31	1.58	8	2
3:B:207:PCW:C7	7:B:237:EWS:BRA	1.31	2.32	10	1
1:A:393:TYR:OH	3:A:407:PCW:H271	1.30	1.14	2	2
1:A:393:TYR:CZ	3:A:407:PCW:H272	1.29	1.53	3	2
1:C:465:GLU:O	1:C:469:LEU:CG	1.27	1.82	10	8
1:A:308:ARG:HG2	1:C:469:LEU:CD1	1.25	1.60	4	1
1:A:396:LYS:CD	3:A:407:PCW:H281	1.25	1.61	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:396:LYS:HD3	3:A:407:PCW:C28	1.24	1.63	5	1
1:C:465:GLU:O	1:C:469:LEU:HG	1.22	1.00	10	10
2:B:56:LEU:HD22	7:B:237:EWS:OAB	1.22	1.28	1	7
2:B:74:THR:HB	7:B:237:EWS:BRA	1.21	1.90	9	1
1:A:396:LYS:NZ	3:A:407:PCW:C27	1.19	2.06	5	1
1:A:393:TYR:OH	3:A:407:PCW:C27	1.19	1.91	2	2
3:B:220:PCW:H52	7:B:237:EWS:BRA	1.19	1.93	8	1
1:A:393:TYR:OH	3:A:407:PCW:C26	1.19	1.91	6	1
3:B:220:PCW:H42	7:B:237:EWS:BRA	1.17	1.93	8	1
3:B:208:PCW:H81	7:B:237:EWS:BRA	1.17	1.93	4	1
3:B:220:PCW:C4	7:B:237:EWS:BRA	1.15	2.49	8	1
3:B:207:PCW:C6	7:B:237:EWS:BRA	1.14	2.50	10	1
1:A:393:TYR:HE1	3:A:407:PCW:C28	1.13	1.25	8	1
1:C:488:LYS:CG	3:C:623:PCW:H281	1.13	1.73	4	2
3:B:207:PCW:H63	7:B:237:EWS:BRA	1.12	1.99	10	1
2:B:56:LEU:CD2	7:B:237:EWS:OAB	1.12	1.96	1	7
1:A:214:PHE:CZ	3:A:404:PCW:H162	1.12	1.79	4	2
1:A:393:TYR:OH	3:A:407:PCW:H262	1.12	1.43	6	1
3:B:220:PCW:C5	7:B:237:EWS:BRA	1.11	2.53	8	1
1:A:391:GLU:O	1:A:395:LYS:HG3	1.09	1.46	5	1
1:A:393:TYR:CD1	3:A:407:PCW:H272	1.08	1.79	8	1
1:C:488:LYS:HG2	3:C:623:PCW:H281	1.07	1.23	4	1
1:C:455:TYR:OH	3:C:601:PCW:C21	1.07	2.03	3	4
2:B:56:LEU:HD13	7:B:237:EWS:CAZ	1.07	1.79	1	1
2:B:56:LEU:HD13	7:B:237:EWS:OAB	1.04	1.49	9	5
1:C:567:GLU:O	1:C:571:GLN:HG3	1.04	1.50	8	10
1:C:488:LYS:CE	3:C:623:PCW:H281	1.03	1.83	9	3
2:B:5:LYS:HB3	7:B:237:EWS:CAT	1.03	1.84	1	3
1:A:396:LYS:HZ2	3:A:407:PCW:C27	1.02	1.63	5	1
3:A:408:PCW:H341	3:B:231:PCW:H39	1.02	1.30	4	7
2:B:71:TYR:HB3	7:B:237:EWS:CAF	1.02	1.84	5	1
2:B:74:THR:C	7:B:237:EWS:BRA	1.02	2.53	9	1
1:C:455:TYR:OH	3:C:601:PCW:H211	1.01	1.56	4	4
3:B:221:PCW:H51	7:B:237:EWS:BRA	1.01	2.10	1	1
2:B:56:LEU:CD1	7:B:237:EWS:OAB	1.01	2.08	9	5
1:A:308:ARG:CD	1:C:469:LEU:HD21	1.00	1.86	6	2
2:B:71:TYR:HA	7:B:237:EWS:CAC	1.00	1.86	1	1
4:B:228:17F:H4	4:B:228:17F:H1	0.99	1.29	10	1
1:A:308:ARG:HG3	1:C:469:LEU:HD21	0.99	1.32	9	7
3:B:221:PCW:C5	7:B:237:EWS:BRA	0.99	2.65	1	1
1:A:393:TYR:HD1	3:A:407:PCW:H281	0.99	1.18	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:201:PCW:C3	7:B:237:EWS:CLA	0.98	2.47	5	1
1:C:488:LYS:HD3	3:C:623:PCW:H281	0.98	1.01	10	7
1:A:396:LYS:HD3	3:A:407:PCW:H281	0.98	1.01	5	1
3:B:202:PCW:H31	3:B:212:PCW:H322	0.97	1.34	10	2
3:B:201:PCW:O3P	7:B:237:EWS:CAO	0.97	2.13	5	1
2:B:56:LEU:HD23	7:B:237:EWS:OAB	0.97	1.59	5	1
1:A:214:PHE:CZ	3:A:404:PCW:H171	0.97	1.94	1	2
3:B:221:PCW:H32	7:B:237:EWS:CLA	0.96	1.96	9	1
1:A:392:GLU:OE1	1:A:395:LYS:HD2	0.94	1.62	5	1
1:C:488:LYS:HD3	3:C:623:PCW:H283	0.93	1.39	5	1
2:B:7:VAL:HG13	7:B:237:EWS:NAW	0.92	1.79	7	2
1:C:455:TYR:OH	3:C:601:PCW:H232	0.92	1.65	8	2
1:C:455:TYR:OH	3:C:601:PCW:C22	0.92	2.18	9	2
1:C:567:GLU:O	1:C:571:GLN:CG	0.91	2.17	8	3
1:A:369:GLU:OE1	1:A:373:GLN:NE2	0.91	2.02	1	1
2:B:74:THR:CB	7:B:237:EWS:BRA	0.91	2.73	9	1
4:B:228:17F:H1	4:B:228:17F:H4	0.91	1.39	2	2
1:A:396:LYS:CE	3:A:407:PCW:H281	0.90	1.98	5	1
1:A:393:TYR:HE1	3:A:407:PCW:H271	0.90	1.16	3	1
3:B:208:PCW:H71	7:B:237:EWS:BRA	0.89	2.22	4	1
1:A:308:ARG:HD2	1:C:469:LEU:HD21	0.89	1.43	6	1
1:A:369:GLU:O	1:A:373:GLN:HG3	0.89	1.67	9	7
1:C:488:LYS:NZ	3:C:623:PCW:H281	0.89	1.82	9	2
3:B:210:PCW:H162	4:B:227:17F:H11A	0.88	1.43	8	1
3:B:210:PCW:H332	4:B:224:17F:H19	0.88	1.45	9	1
1:C:455:TYR:OH	3:C:601:PCW:C20	0.88	2.22	3	3
3:C:607:PCW:H412	3:C:611:PCW:H31	0.88	1.45	9	3
2:B:75:GLY:CA	7:B:237:EWS:BRA	0.88	2.76	9	1
1:C:488:LYS:HD3	3:C:623:PCW:H272	0.87	1.41	9	1
3:B:217:PCW:H11	7:B:237:EWS:CAM	0.87	2.00	7	1
3:A:407:PCW:H342	4:B:225:17F:H9	0.87	1.44	6	5
3:A:410:PCW:H372	4:C:633:17F:H36	0.87	1.46	4	1
3:B:221:PCW:H63	7:B:237:EWS:BRA	0.86	2.25	1	2
3:B:210:PCW:C7	7:B:237:EWS:CAO	0.86	2.53	10	1
1:A:396:LYS:HZ3	3:A:407:PCW:H271	0.86	1.04	5	1
1:A:214:PHE:HZ	3:A:404:PCW:H162	0.85	1.12	4	1
3:C:618:PCW:H121	3:C:620:PCW:H381	0.85	1.47	10	1
3:A:410:PCW:H331	4:C:633:17F:H37	0.85	1.49	1	2
1:A:214:PHE:HZ	3:A:404:PCW:H171	0.85	1.27	1	2
4:B:223:17F:H35	4:B:225:17F:H20A	0.84	1.46	6	1
1:A:308:ARG:HG3	1:C:469:LEU:CD2	0.84	2.01	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:219:PCW:O2P	7:B:237:EWS:CAI	0.84	2.25	9	1
3:C:621:PCW:H361	3:C:629:PCW:H212	0.84	1.50	10	3
1:A:392:GLU:CD	1:A:395:LYS:HD2	0.84	1.93	5	1
4:A:411:17F:H35	3:C:624:PCW:H482	0.84	1.47	3	2
3:B:207:PCW:H71	7:B:237:EWS:BRA	0.84	2.28	10	1
3:B:208:PCW:H61	7:B:237:EWS:BRA	0.84	2.28	4	1
1:A:392:GLU:OE1	1:A:395:LYS:CD	0.83	2.25	5	1
3:A:410:PCW:H121	4:C:633:17F:H30	0.83	1.47	8	8
3:B:207:PCW:O3P	7:B:237:EWS:CAK	0.83	2.26	6	1
3:B:231:PCW:H341	3:C:604:PCW:H322	0.83	1.50	6	7
3:A:407:PCW:H122	4:B:223:17F:H20	0.83	1.48	3	2
1:C:488:LYS:NZ	3:C:623:PCW:H283	0.83	1.87	4	1
2:B:56:LEU:HD22	7:B:237:EWS:CAZ	0.82	2.03	8	4
1:C:465:GLU:O	1:C:469:LEU:CB	0.82	2.27	6	3
3:A:407:PCW:H342	4:B:225:17F:H8A	0.82	1.49	9	1
2:B:70:GLN:HG3	3:B:220:PCW:H41	0.82	1.51	9	1
4:B:234:17F:H57	3:C:625:PCW:H141	0.82	1.52	1	6
1:A:393:TYR:HD1	3:A:407:PCW:C28	0.82	1.86	8	2
4:C:633:17F:H4A	4:C:633:17F:H2	0.82	1.49	2	2
2:B:84:ILE:HD11	2:B:118:CYS:HA	0.81	1.49	4	6
3:B:201:PCW:H411	3:B:219:PCW:H452	0.81	1.50	5	3
1:A:314:ASP:HA	1:A:317:ARG:HD2	0.81	1.52	1	3
1:A:365:LYS:HB2	1:A:366:PRO:HD3	0.81	1.52	1	8
3:B:208:PCW:H371	4:B:226:17F:H18A	0.81	1.48	10	1
2:B:7:VAL:CG2	7:B:237:EWS:CAX	0.81	2.58	8	3
3:A:410:PCW:H362	4:C:633:17F:H36	0.80	1.53	6	2
3:A:407:PCW:H331	4:B:223:17F:H20	0.80	1.52	10	1
1:A:214:PHE:CZ	3:A:404:PCW:H161	0.80	2.11	10	1
3:B:208:PCW:H321	7:B:237:EWS:CAO	0.80	2.05	4	1
3:C:617:PCW:H212	4:C:632:17F:H41	0.80	1.50	6	2
3:B:207:PCW:H12	7:B:237:EWS:CAO	0.80	2.06	6	1
3:C:607:PCW:H252	4:C:631:17F:H39	0.80	1.53	3	3
3:B:219:PCW:H73	7:B:237:EWS:NAA	0.80	1.91	9	1
3:B:202:PCW:H12	3:B:212:PCW:H322	0.80	1.52	8	1
1:A:308:ARG:CB	1:C:469:LEU:HD11	0.80	2.06	4	2
3:B:221:PCW:C4	7:B:237:EWS:BRA	0.80	2.84	1	1
4:A:411:17F:H47	3:C:617:PCW:H422	0.79	1.52	8	1
3:B:232:PCW:H122	3:C:625:PCW:H171	0.79	1.54	7	4
3:A:401:PCW:H40	3:C:613:PCW:H251	0.79	1.52	1	1
3:C:618:PCW:H122	3:C:620:PCW:H381	0.79	1.52	1	3
1:A:279:LEU:HD22	1:C:495:LYS:HG2	0.79	1.51	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:617:PCW:H222	4:C:635:17F:H39	0.79	1.54	10	3
3:C:618:PCW:H381	3:C:619:PCW:H121	0.79	1.54	4	1
1:A:393:TYR:HE1	3:A:407:PCW:H283	0.79	1.35	8	1
1:A:396:LYS:HZ2	3:A:407:PCW:H271	0.79	1.00	5	1
3:B:202:PCW:H442	4:B:226:17F:H12A	0.78	1.53	6	4
3:A:410:PCW:H352	4:C:633:17F:H36	0.78	1.54	3	5
2:B:71:TYR:CB	7:B:237:EWS:CAF	0.78	2.60	5	1
3:A:408:PCW:H422	3:B:204:PCW:H451	0.78	1.54	3	1
3:B:205:PCW:H83	7:B:237:EWS:BRA	0.78	2.33	6	2
3:B:208:PCW:H31	3:B:221:PCW:H141	0.78	1.56	8	2
3:A:402:PCW:H39	3:B:214:PCW:H232	0.78	1.54	2	1
3:B:217:PCW:H152	3:B:218:PCW:H141	0.77	1.55	10	2
1:C:455:TYR:OH	3:C:601:PCW:H222	0.77	1.78	9	1
3:B:210:PCW:H52	7:B:237:EWS:CAK	0.77	2.10	10	1
3:B:221:PCW:C3	7:B:237:EWS:CLA	0.77	2.69	9	1
1:A:391:GLU:O	1:A:395:LYS:CG	0.77	2.31	5	1
3:B:211:PCW:H382	4:B:229:17F:H10A	0.77	1.55	3	4
3:C:605:PCW:H182	3:C:626:PCW:H151	0.77	1.56	2	3
1:A:393:TYR:CE1	3:A:407:PCW:H272	0.77	2.14	2	2
1:A:393:TYR:HH	3:A:407:PCW:H271	0.77	0.97	2	1
1:C:465:GLU:O	1:C:469:LEU:CD1	0.76	2.32	6	3
1:A:393:TYR:HD1	1:A:396:LYS:HE3	0.76	1.39	5	1
2:B:54:ASP:OD2	7:B:237:EWS:BRA	0.76	2.58	7	1
2:B:56:LEU:HD22	7:B:237:EWS:CAX	0.76	2.10	9	2
1:A:392:GLU:O	1:A:396:LYS:HG3	0.76	1.80	5	1
1:A:308:ARG:HD3	1:C:469:LEU:HD21	0.76	1.57	6	1
2:B:38:ASP:HB3	2:B:57:ASP:HB3	0.76	1.58	2	2
3:B:221:PCW:H72	7:B:237:EWS:BRA	0.76	2.36	1	1
3:B:203:PCW:H11	3:B:220:PCW:H81	0.76	1.57	9	1
3:A:410:PCW:H381	4:C:633:17F:H36	0.76	1.58	10	3
3:A:406:PCW:H182	3:A:409:PCW:H261	0.76	1.55	7	1
3:A:406:PCW:H152	4:B:226:17F:H34	0.75	1.55	5	1
3:A:406:PCW:H40	4:B:226:17F:H69	0.75	1.59	10	1
3:B:202:PCW:H421	4:B:226:17F:H40	0.75	1.57	7	4
1:A:297:LYS:HE2	1:C:476:PRO:HB2	0.75	1.56	3	2
3:A:408:PCW:H422	3:B:204:PCW:H472	0.75	1.58	9	1
3:B:210:PCW:H161	4:B:224:17F:H18A	0.75	1.58	8	1
3:A:410:PCW:H331	4:C:633:17F:H12A	0.75	1.59	10	6
3:B:201:PCW:H251	4:B:228:17F:H64	0.75	1.57	5	1
3:C:611:PCW:H242	3:C:617:PCW:H421	0.75	1.58	9	1
3:B:208:PCW:C8	7:B:237:EWS:BRA	0.75	2.83	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:B:226:17F:HN1	7:B:237:EWS:CAL	0.75	1.93	4	1
1:C:563:LYS:HB2	1:C:564:PRO:HD3	0.75	1.55	4	4
3:A:410:PCW:H332	4:C:633:17F:H12A	0.75	1.56	1	2
4:B:226:17F:H12	4:B:230:17F:H11	0.75	1.58	5	1
1:A:396:LYS:CE	3:A:407:PCW:C28	0.74	2.63	5	1
3:C:611:PCW:H381	3:C:617:PCW:H412	0.74	1.58	2	3
4:B:234:17F:H56	3:C:625:PCW:H19	0.74	1.59	10	1
3:C:611:PCW:H482	4:C:635:17F:H42	0.74	1.59	1	3
1:A:308:ARG:CG	1:C:469:LEU:CD1	0.74	2.39	4	1
3:B:217:PCW:H2	7:B:237:EWS:CLA	0.74	2.18	7	1
1:A:214:PHE:CZ	3:A:404:PCW:C16	0.74	2.69	4	3
3:C:618:PCW:H121	3:C:620:PCW:H382	0.74	1.57	5	3
4:A:411:17F:H29	4:C:631:17F:H65	0.74	1.59	1	1
2:B:7:VAL:HG21	7:B:237:EWS:CAX	0.73	2.13	6	2
1:A:393:TYR:CD1	1:A:396:LYS:HE3	0.73	2.18	5	1
2:B:71:TYR:HB2	7:B:237:EWS:CAC	0.73	2.12	8	1
4:B:223:17F:H1	4:B:223:17F:H4	0.73	1.58	3	1
4:B:234:17F:H31	3:C:625:PCW:H19	0.73	1.60	8	1
3:A:407:PCW:H121	4:B:223:17F:H20A	0.73	1.59	10	2
3:B:215:PCW:H221	3:C:609:PCW:H483	0.73	1.58	8	1
3:C:617:PCW:H241	4:C:635:17F:H44	0.73	1.57	10	1
2:B:56:LEU:CD2	7:B:237:EWS:CAZ	0.73	2.65	5	1
3:C:606:PCW:H471	3:C:622:PCW:H39	0.73	1.58	6	1
3:C:619:PCW:H322	3:C:621:PCW:H172	0.73	1.60	3	1
3:C:621:PCW:H31	3:C:629:PCW:H151	0.73	1.59	3	1
4:B:228:17F:C4	4:B:228:17F:H1	0.73	2.12	10	1
3:B:219:PCW:H212	3:C:605:PCW:H281	0.73	1.58	10	1
1:A:393:TYR:HD1	1:A:396:LYS:CE	0.73	1.96	5	1
3:A:407:PCW:H331	4:B:223:17F:H31	0.73	1.60	9	3
4:B:225:17F:H63	3:C:626:PCW:H262	0.73	1.61	2	1
1:C:455:TYR:HE2	3:C:601:PCW:H231	0.73	1.43	3	1
3:A:410:PCW:H121	4:C:633:17F:H29	0.73	1.61	1	2
4:C:631:17F:H60	4:C:631:17F:H37	0.73	1.60	2	1
3:C:608:PCW:H31	3:C:628:PCW:H332	0.73	1.58	8	3
3:B:210:PCW:H72	7:B:237:EWS:CAO	0.73	2.13	10	1
3:B:220:PCW:H62	3:B:220:PCW:H2	0.73	1.60	9	1
3:B:209:PCW:H252	3:B:213:PCW:H431	0.72	1.61	9	2
3:B:231:PCW:H341	3:C:604:PCW:H331	0.72	1.60	9	1
3:A:406:PCW:H182	3:A:409:PCW:H242	0.72	1.61	5	2
3:C:613:PCW:H162	3:C:626:PCW:H451	0.72	1.60	7	4
4:B:234:17F:H9A	4:B:234:17F:H20A	0.72	1.62	5	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:410:PCW:H132	4:C:633:17F:H11A	0.72	1.60	2	4
3:C:613:PCW:H162	3:C:622:PCW:H161	0.72	1.59	9	3
3:B:217:PCW:H42	3:B:217:PCW:H321	0.72	1.61	5	2
3:B:209:PCW:H122	3:B:213:PCW:H122	0.72	1.61	3	3
3:C:617:PCW:H211	4:C:632:17F:H41	0.72	1.58	5	1
3:A:409:PCW:H481	3:B:208:PCW:H462	0.72	1.62	6	1
3:C:611:PCW:H372	3:C:617:PCW:H412	0.72	1.62	4	1
3:C:610:PCW:H341	3:C:614:PCW:H121	0.72	1.60	1	2
3:B:207:PCW:H20	3:B:232:PCW:H483	0.72	1.60	1	1
2:B:7:VAL:CG1	7:B:237:EWS:NAW	0.71	2.53	7	2
4:B:223:17F:H1	4:B:223:17F:C4	0.71	2.15	3	3
3:A:403:PCW:H332	3:B:204:PCW:H32	0.71	1.62	10	2
3:B:210:PCW:H172	4:B:224:17F:H18	0.71	1.60	5	3
1:A:308:ARG:CG	1:C:469:LEU:HD21	0.71	2.14	9	2
4:B:234:17F:H9	4:B:234:17F:H20	0.71	1.60	9	1
4:B:234:17F:H12	4:C:631:17F:H38	0.71	1.61	6	1
3:C:618:PCW:H122	3:C:620:PCW:H382	0.71	1.63	7	2
3:A:408:PCW:H342	3:C:604:PCW:H232	0.71	1.61	4	1
3:B:210:PCW:H361	4:B:224:17F:H19A	0.71	1.63	8	1
3:A:403:PCW:H351	3:A:403:PCW:H161	0.71	1.62	2	1
3:A:407:PCW:H352	4:B:223:17F:H56	0.71	1.61	10	3
3:C:613:PCW:H151	3:C:626:PCW:H431	0.71	1.63	7	4
3:C:607:PCW:H332	3:C:611:PCW:H131	0.71	1.61	3	1
3:A:407:PCW:H331	4:B:223:17F:H32	0.70	1.62	8	4
2:B:74:THR:HB	4:B:230:17F:H1A	0.70	1.61	1	1
3:C:627:PCW:H331	3:C:628:PCW:H121	0.70	1.63	6	7
4:A:411:17F:H1A	4:C:631:17F:H6A	0.70	1.63	4	6
3:B:217:PCW:C2	7:B:237:EWS:CLA	0.70	2.76	7	1
3:B:220:PCW:H122	3:B:220:PCW:H361	0.70	1.63	8	1
3:B:210:PCW:H73	7:B:237:EWS:CAO	0.70	2.15	10	1
4:B:228:17F:H4	4:B:228:17F:C1	0.70	2.17	2	2
3:B:210:PCW:H372	4:B:224:17F:H20A	0.70	1.62	7	2
3:B:233:PCW:H411	3:C:604:PCW:H39	0.70	1.63	2	2
2:B:39:SER:HB2	7:B:237:EWS:BRA	0.70	2.42	7	1
3:A:407:PCW:H151	4:B:223:17F:H33	0.70	1.63	9	2
3:B:210:PCW:H331	4:B:224:17F:H19	0.70	1.62	7	1
3:B:217:PCW:C1	7:B:237:EWS:CLA	0.70	2.77	7	1
3:B:209:PCW:H331	3:B:213:PCW:H121	0.70	1.63	3	1
3:B:231:PCW:H371	3:C:604:PCW:H212	0.70	1.64	10	4
4:B:223:17F:H51	3:C:626:PCW:H231	0.70	1.64	7	1
2:B:56:LEU:HD13	7:B:237:EWS:CBA	0.70	2.16	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:201:PCW:H371	4:B:226:17F:H42	0.70	1.63	9	1
3:B:208:PCW:H331	3:B:221:PCW:H19	0.70	1.63	7	2
3:B:212:PCW:H131	3:B:212:PCW:H332	0.70	1.63	4	1
3:A:402:PCW:H341	3:B:213:PCW:H321	0.70	1.62	3	1
3:C:609:PCW:H162	4:C:632:17F:H18	0.69	1.62	8	2
3:B:202:PCW:H331	4:B:228:17F:H4A	0.69	1.62	8	1
3:B:205:PCW:H232	3:B:220:PCW:H412	0.69	1.64	8	1
3:C:615:PCW:H132	3:C:622:PCW:H382	0.69	1.63	3	3
2:B:71:TYR:HB2	7:B:237:EWS:CAE	0.69	2.17	5	2
3:B:207:PCW:H162	3:B:232:PCW:H281	0.69	1.63	10	1
1:A:396:LYS:CD	3:A:407:PCW:C28	0.69	2.41	5	1
2:B:7:VAL:HG22	7:B:237:EWS:NAW	0.69	2.03	1	2
3:B:217:PCW:H11	7:B:237:EWS:CLA	0.69	2.24	7	1
3:B:210:PCW:H131	3:B:216:PCW:H2	0.69	1.63	2	2
3:B:209:PCW:H181	3:B:213:PCW:H19	0.69	1.64	3	2
3:C:611:PCW:H341	3:C:617:PCW:H341	0.69	1.64	4	1
3:B:211:PCW:H412	4:B:229:17F:H60	0.69	1.65	2	1
2:B:7:VAL:HG23	7:B:237:EWS:NAW	0.69	2.03	8	1
1:C:458:ASP:HA	1:C:461:LYS:HE2	0.69	1.63	5	1
3:A:407:PCW:H121	4:B:223:17F:H33	0.69	1.65	5	4
3:C:611:PCW:H171	3:C:617:PCW:H352	0.69	1.65	5	1
3:C:611:PCW:H181	3:C:617:PCW:H351	0.69	1.63	9	1
4:B:228:17F:H63	3:C:615:PCW:H472	0.69	1.64	5	1
1:A:308:ARG:HG2	1:C:469:LEU:HD11	0.69	0.70	4	1
3:B:231:PCW:H472	3:C:604:PCW:H271	0.69	1.63	10	1
1:A:255:GLN:HB2	1:A:256:PRO:HD3	0.68	1.65	3	3
3:B:202:PCW:H451	4:B:226:17F:H10A	0.68	1.64	5	1
3:A:406:PCW:H151	4:B:226:17F:H34	0.68	1.64	8	1
3:B:218:PCW:H262	3:C:625:PCW:H421	0.68	1.63	4	1
3:B:219:PCW:H342	4:B:226:17F:H37	0.68	1.63	1	1
3:A:408:PCW:H372	3:B:204:PCW:H481	0.68	1.64	10	1
4:B:234:17F:H69	4:C:631:17F:H77	0.68	1.65	2	1
3:B:202:PCW:H483	3:B:208:PCW:H411	0.68	1.64	5	2
3:C:621:PCW:H412	3:C:629:PCW:H19	0.68	1.62	3	1
2:B:79:LEU:HG	2:B:159:LEU:HD22	0.68	1.65	7	7
1:A:396:LYS:HD3	3:A:407:PCW:C27	0.68	2.17	5	1
4:B:234:17F:H10	4:C:631:17F:H41	0.68	1.64	9	1
3:B:207:PCW:H321	3:B:220:PCW:H372	0.68	1.64	4	1
3:A:407:PCW:H131	4:B:223:17F:H33	0.68	1.65	6	2
3:B:205:PCW:H62	7:B:237:EWS:BRA	0.68	2.43	6	1
3:B:211:PCW:H121	4:B:229:17F:H9A	0.68	1.66	9	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:209:PCW:H351	3:B:213:PCW:H132	0.68	1.65	7	1
3:C:619:PCW:H411	3:C:621:PCW:H472	0.68	1.64	3	1
1:A:392:GLU:OE2	1:A:395:LYS:NZ	0.68	2.24	5	1
1:A:308:ARG:HD3	1:C:469:LEU:HD11	0.68	1.65	6	2
3:A:406:PCW:H441	3:A:409:PCW:H20	0.68	1.64	2	2
1:C:590:GLU:HA	1:C:593:LYS:HE3	0.68	1.62	7	2
1:C:488:LYS:CE	3:C:623:PCW:C27	0.68	2.52	4	1
3:B:209:PCW:H141	3:B:213:PCW:H332	0.67	1.65	10	1
3:B:201:PCW:H242	4:B:228:17F:H59	0.67	1.65	4	1
3:C:611:PCW:H152	3:C:617:PCW:H321	0.67	1.66	5	6
3:B:202:PCW:H422	4:B:226:17F:H12A	0.67	1.63	9	1
1:A:276:VAL:O	1:A:280:ARG:HB2	0.67	1.88	7	3
3:B:233:PCW:H32	3:C:604:PCW:H11	0.67	1.65	9	3
2:B:5:LYS:CB	7:B:237:EWS:CAT	0.67	2.69	1	2
3:B:203:PCW:H142	4:B:229:17F:H20	0.67	1.66	5	1
3:B:216:PCW:H73	4:B:224:17F:HN1A	0.67	1.49	6	1
3:A:406:PCW:H431	3:A:409:PCW:H241	0.67	1.65	7	1
1:A:279:LEU:HB3	1:C:495:LYS:HE3	0.67	1.65	9	3
3:C:607:PCW:H332	3:C:611:PCW:H122	0.67	1.67	10	1
3:C:627:PCW:H351	3:C:628:PCW:H121	0.67	1.66	1	7
3:B:203:PCW:H142	3:B:211:PCW:H39	0.67	1.67	7	1
1:C:455:TYR:OH	3:C:601:PCW:C23	0.67	2.40	8	2
1:A:388:SER:HB2	1:C:594:LYS:HE2	0.67	1.66	2	1
3:A:403:PCW:H332	3:B:204:PCW:H31	0.67	1.66	8	1
1:A:396:LYS:CD	3:A:407:PCW:C27	0.67	2.72	5	1
3:B:213:PCW:H332	3:B:216:PCW:H122	0.67	1.67	9	1
4:B:229:17F:H4	4:B:229:17F:H1	0.67	1.65	6	1
2:B:56:LEU:CG	7:B:237:EWS:OAB	0.67	2.43	1	2
3:B:207:PCW:H39	3:B:211:PCW:H381	0.67	1.66	6	1
3:B:215:PCW:H252	3:C:609:PCW:H472	0.67	1.66	3	1
3:B:201:PCW:H222	4:B:225:17F:H65	0.66	1.65	8	1
1:A:393:TYR:CD1	1:A:396:LYS:NZ	0.66	2.62	5	1
4:B:224:17F:H11	4:B:230:17F:H59	0.66	1.67	5	1
4:B:229:17F:H45	3:C:604:PCW:H481	0.66	1.66	5	1
4:B:234:17F:H10A	4:B:234:17F:H34	0.66	1.66	7	1
1:C:503:MET:HA	1:C:506:ARG:HD2	0.66	1.67	1	4
3:A:409:PCW:H441	3:C:627:PCW:H441	0.66	1.65	2	1
3:C:619:PCW:H40	3:C:629:PCW:H252	0.66	1.67	8	2
1:A:275:LYS:O	1:A:279:LEU:HG	0.66	1.90	5	9
3:B:202:PCW:H361	3:B:212:PCW:H331	0.66	1.67	5	1
3:B:220:PCW:H472	3:B:233:PCW:H283	0.66	1.67	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:207:PCW:C1	7:B:237:EWS:CAK	0.66	2.72	6	1
2:B:54:ASP:CG	7:B:237:EWS:BRA	0.66	2.89	7	1
3:B:218:PCW:H261	3:C:629:PCW:H283	0.66	1.66	3	1
3:C:606:PCW:H232	3:C:615:PCW:H181	0.66	1.65	5	1
3:A:408:PCW:H451	3:B:204:PCW:H452	0.66	1.68	6	1
3:C:613:PCW:H351	3:C:626:PCW:H411	0.66	1.65	8	3
3:C:611:PCW:H161	3:C:617:PCW:H351	0.66	1.67	4	2
1:A:214:PHE:CE1	3:A:404:PCW:H162	0.66	2.25	4	1
3:C:621:PCW:H381	3:C:629:PCW:H171	0.66	1.66	9	6
3:C:614:PCW:H63	3:C:629:PCW:H32	0.66	1.67	9	1
3:B:220:PCW:H52	7:B:237:EWS:CAR	0.65	2.22	8	1
3:B:210:PCW:H121	4:B:224:17F:H18A	0.65	1.66	10	1
3:B:210:PCW:H331	4:B:224:17F:H5	0.65	1.65	6	2
3:B:233:PCW:H172	3:C:625:PCW:H232	0.65	1.66	5	1
3:B:201:PCW:H42	3:B:219:PCW:H322	0.65	1.66	7	1
3:B:210:PCW:H483	4:B:224:17F:H49	0.65	1.68	4	1
3:A:402:PCW:H341	3:B:213:PCW:H322	0.65	1.67	4	1
1:A:369:GLU:OE1	1:A:373:GLN:CD	0.65	2.34	1	1
1:A:396:LYS:CE	3:A:407:PCW:C27	0.65	2.74	5	1
4:B:234:17F:H40	4:B:234:17F:H64	0.65	1.68	5	1
1:C:455:TYR:HH	3:C:601:PCW:H211	0.65	1.50	4	2
1:C:497:SER:HB2	1:C:498:PRO:HD3	0.65	1.68	3	2
3:C:616:PCW:H412	3:C:622:PCW:H221	0.65	1.66	4	1
1:A:214:PHE:HZ	3:A:404:PCW:C17	0.65	2.04	1	1
3:C:611:PCW:H411	3:C:617:PCW:H432	0.65	1.68	1	1
3:B:212:PCW:H121	4:B:226:17F:H6	0.65	1.68	3	1
4:B:226:17F:H6A	7:B:237:EWS:CAM	0.65	2.22	2	1
3:B:221:PCW:C6	7:B:237:EWS:BRA	0.65	2.98	1	1
3:C:611:PCW:H442	4:C:635:17F:H43	0.65	1.66	7	2
3:C:611:PCW:H32	3:C:617:PCW:H62	0.65	1.68	5	3
3:C:617:PCW:H221	4:C:635:17F:H44	0.65	1.67	9	1
4:B:225:17F:H12A	4:B:225:17F:H62	0.65	1.68	3	1
2:B:35:THR:HG21	2:B:57:ASP:HB3	0.65	1.68	3	1
3:A:402:PCW:H362	3:B:214:PCW:H161	0.65	1.68	1	1
3:B:209:PCW:H282	3:B:213:PCW:H431	0.65	1.69	5	1
1:C:512:ASP:HA	1:C:515:ARG:HD2	0.65	1.68	6	2
3:A:403:PCW:H431	3:C:618:PCW:H482	0.65	1.68	7	1
1:A:393:TYR:OH	3:A:403:PCW:H281	0.65	1.91	2	1
2:B:7:VAL:HB	2:B:78:PHE:CD1	0.65	2.26	8	2
3:C:608:PCW:H31	3:C:628:PCW:H331	0.65	1.68	6	1
3:A:401:PCW:H472	3:C:626:PCW:H482	0.65	1.67	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:207:PCW:H381	3:B:232:PCW:H242	0.64	1.69	3	1
3:B:203:PCW:H371	3:B:220:PCW:H151	0.64	1.68	8	1
3:B:207:PCW:H61	7:B:237:EWS:BRA	0.64	2.44	10	1
3:C:628:PCW:H362	3:C:628:PCW:H142	0.64	1.68	7	1
3:B:231:PCW:H362	3:C:604:PCW:H181	0.64	1.70	8	4
3:A:407:PCW:H341	4:B:225:17F:H11	0.64	1.69	9	2
3:B:203:PCW:H141	3:B:207:PCW:H351	0.64	1.68	1	1
4:B:230:17F:H76	4:C:631:17F:H54	0.64	1.70	3	2
3:C:601:PCW:H421	4:C:630:17F:H54	0.64	1.67	4	1
4:C:633:17F:C4	4:C:633:17F:H2	0.64	2.23	2	1
1:C:573:LEU:HA	1:C:576:VAL:HG12	0.64	1.69	7	3
1:A:308:ARG:CD	1:C:469:LEU:HD11	0.64	2.23	7	1
3:C:611:PCW:H151	3:C:617:PCW:H352	0.64	1.67	2	1
3:B:205:PCW:H211	3:B:219:PCW:H141	0.64	1.69	1	1
3:B:205:PCW:H161	3:B:219:PCW:H122	0.64	1.68	5	1
2:B:71:TYR:CB	7:B:237:EWS:CAE	0.63	2.76	5	1
2:B:84:ILE:HD12	2:B:123:ARG:HG3	0.63	1.68	2	3
3:A:409:PCW:H481	3:B:208:PCW:H441	0.63	1.68	1	1
3:B:213:PCW:H232	3:C:611:PCW:H422	0.63	1.67	9	1
3:A:406:PCW:H231	3:A:409:PCW:H261	0.63	1.69	1	1
3:C:621:PCW:H372	3:C:629:PCW:H152	0.63	1.69	10	5
3:C:613:PCW:H161	3:C:622:PCW:H19	0.63	1.71	5	2
3:B:202:PCW:H431	3:B:212:PCW:H172	0.63	1.69	2	1
1:A:376:LEU:HB2	1:A:377:PRO:HD3	0.63	1.68	9	1
3:B:204:PCW:H483	3:B:231:PCW:H422	0.63	1.70	6	1
1:A:264:LYS:HE2	1:C:509:ALA:HB1	0.63	1.69	9	1
3:B:213:PCW:H441	3:B:216:PCW:H251	0.63	1.70	5	1
3:B:209:PCW:H171	3:B:216:PCW:H162	0.63	1.70	7	1
3:B:207:PCW:H20	3:B:232:PCW:H481	0.63	1.69	2	1
4:B:228:17F:H1	4:B:228:17F:C4	0.63	2.19	2	2
3:C:606:PCW:H182	3:C:615:PCW:H142	0.63	1.70	2	1
3:B:231:PCW:H412	3:C:604:PCW:H432	0.63	1.69	1	1
3:B:204:PCW:H232	3:C:618:PCW:H481	0.63	1.69	1	1
3:B:203:PCW:H322	3:B:220:PCW:H121	0.63	1.70	6	3
3:A:408:PCW:H371	3:A:410:PCW:H361	0.63	1.69	6	1
4:B:227:17F:H75	3:C:602:PCW:H431	0.63	1.71	1	1
4:B:227:17F:H29	4:B:227:17F:H39	0.63	1.70	8	1
1:C:470:TYR:CE1	4:C:632:17F:H76	0.63	2.28	1	2
3:B:209:PCW:H382	3:B:213:PCW:H152	0.63	1.71	6	2
3:B:209:PCW:H251	3:C:611:PCW:H483	0.63	1.69	3	2
1:A:393:TYR:CD1	1:A:396:LYS:CE	0.62	2.80	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:301:LEU:HD22	1:C:473:LYS:HG2	0.62	1.69	7	2
3:B:203:PCW:H481	3:B:233:PCW:H481	0.62	1.72	8	1
3:C:611:PCW:H182	3:C:617:PCW:H351	0.62	1.71	3	3
3:B:205:PCW:H251	3:B:219:PCW:H422	0.62	1.69	7	1
3:B:219:PCW:H232	4:B:230:17F:H73	0.62	1.69	1	1
1:C:505:ASP:HA	1:C:508:ARG:HD2	0.62	1.71	7	3
3:B:201:PCW:H483	3:C:627:PCW:H252	0.62	1.71	10	1
3:A:403:PCW:H352	3:A:403:PCW:H122	0.62	1.71	5	1
3:C:608:PCW:H361	3:C:628:PCW:H212	0.62	1.71	7	2
3:C:617:PCW:H221	4:C:635:17F:H40	0.62	1.70	2	1
1:A:392:GLU:HA	1:A:395:LYS:HB2	0.62	1.71	5	1
2:B:56:LEU:HD11	3:B:219:PCW:H61	0.62	1.68	6	1
4:B:234:17F:H10	4:C:631:17F:H38	0.62	1.71	4	2
3:C:615:PCW:H372	3:C:622:PCW:H351	0.62	1.71	10	1
3:B:233:PCW:H171	3:C:625:PCW:H232	0.62	1.70	6	1
1:A:308:ARG:CB	1:C:469:LEU:CD1	0.62	2.76	4	1
2:B:54:ASP:HB3	7:B:237:EWS:BRA	0.62	2.49	2	1
3:A:406:PCW:H431	3:A:409:PCW:H251	0.62	1.71	8	1
3:A:407:PCW:H152	4:B:223:17F:H33	0.62	1.72	5	3
3:A:407:PCW:C34	4:B:225:17F:H11	0.62	2.25	9	1
1:A:393:TYR:CE2	3:A:407:PCW:H272	0.62	2.25	3	1
3:B:232:PCW:H371	3:B:232:PCW:H152	0.62	1.70	3	1
3:C:608:PCW:H352	3:C:609:PCW:H352	0.62	1.72	6	1
3:B:221:PCW:H2	4:B:230:17F:H18A	0.62	1.71	7	1
4:C:631:17F:C21	4:C:631:17F:H60	0.62	2.25	2	1
3:B:202:PCW:H341	3:B:212:PCW:H351	0.62	1.71	1	1
3:B:232:PCW:H331	3:C:619:PCW:H341	0.61	1.71	3	2
3:C:611:PCW:H181	3:C:617:PCW:H341	0.61	1.70	10	1
3:A:409:PCW:H371	3:C:627:PCW:H341	0.61	1.72	5	3
3:B:210:PCW:H352	4:B:224:17F:H19	0.61	1.71	6	2
3:B:220:PCW:H142	3:B:220:PCW:H39	0.61	1.73	1	1
3:B:202:PCW:H322	3:B:212:PCW:H371	0.61	1.71	8	1
3:C:610:PCW:H461	3:C:614:PCW:H19	0.61	1.70	5	1
3:B:210:PCW:H362	4:B:224:17F:H8	0.61	1.71	9	1
3:C:605:PCW:H122	3:C:605:PCW:H351	0.61	1.69	2	1
4:B:230:17F:H49	3:C:613:PCW:H452	0.61	1.70	2	2
3:B:201:PCW:H342	3:B:219:PCW:H362	0.61	1.72	7	1
3:B:205:PCW:H231	3:B:219:PCW:H412	0.61	1.71	4	1
3:A:401:PCW:H61	4:B:226:17F:H1A	0.61	1.72	8	1
1:A:334:ARG:HD2	1:C:440:GLU:OE1	0.61	1.96	6	2
1:C:418:GLN:O	1:C:422:VAL:HB	0.61	1.95	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:208:PCW:H151	3:B:215:PCW:H171	0.61	1.73	2	1
4:B:226:17F:H6A	7:B:237:EWS:CLA	0.61	2.32	1	1
1:A:330:ARG:HH21	1:C:447:GLU:HB2	0.61	1.56	5	1
3:B:219:PCW:H341	4:B:226:17F:H37	0.61	1.73	10	1
3:B:218:PCW:H482	3:C:629:PCW:H281	0.61	1.72	9	2
3:B:217:PCW:H172	3:B:218:PCW:H161	0.61	1.70	6	1
3:B:203:PCW:H232	3:C:621:PCW:H481	0.61	1.72	9	1
3:A:409:PCW:H442	3:C:605:PCW:H231	0.61	1.70	8	1
2:B:6:LEU:HB2	2:B:55:ILE:HG13	0.61	1.71	1	1
3:B:209:PCW:H241	3:C:611:PCW:H461	0.61	1.71	5	1
3:B:218:PCW:H372	3:C:603:PCW:H372	0.61	1.71	8	1
3:B:202:PCW:H122	4:B:228:17F:H9	0.61	1.72	10	3
3:B:209:PCW:H161	3:B:216:PCW:H182	0.61	1.71	10	1
3:B:219:PCW:H422	3:B:220:PCW:H182	0.61	1.72	3	1
4:B:225:17F:H75	3:C:615:PCW:H242	0.60	1.71	8	1
3:B:210:PCW:H472	4:B:227:17F:H44	0.60	1.73	9	1
3:A:401:PCW:H462	3:C:613:PCW:H251	0.60	1.71	7	1
3:B:201:PCW:H362	3:B:219:PCW:H351	0.60	1.71	4	1
3:A:410:PCW:H121	4:C:633:17F:C1X	0.60	2.25	1	4
3:C:607:PCW:H242	4:C:631:17F:H39	0.60	1.73	6	1
3:B:205:PCW:H39	4:B:224:17F:H59	0.60	1.73	3	1
3:B:220:PCW:H371	3:B:220:PCW:H122	0.60	1.73	1	1
3:A:407:PCW:H331	4:B:223:17F:C1Y	0.60	2.27	3	4
3:B:210:PCW:H231	4:B:227:17F:H44	0.60	1.74	4	1
3:A:408:PCW:H322	3:B:231:PCW:H372	0.60	1.72	3	1
3:A:407:PCW:H451	4:B:223:17F:H71	0.60	1.73	5	2
3:B:201:PCW:O2P	7:B:237:EWS:CAK	0.60	2.49	5	1
3:B:219:PCW:N	7:B:237:EWS:BRA	0.60	2.89	6	1
3:B:210:PCW:H332	4:B:224:17F:H5	0.60	1.74	7	1
3:B:209:PCW:H122	3:B:213:PCW:H132	0.60	1.74	8	1
1:C:561:LYS:HA	1:C:565:ALA:HB3	0.60	1.73	6	2
3:B:232:PCW:H151	3:C:625:PCW:H171	0.60	1.73	3	2
3:B:206:PCW:H372	3:B:215:PCW:H412	0.60	1.72	3	1
3:B:211:PCW:H342	4:B:229:17F:H11	0.60	1.73	9	3
1:A:365:LYS:O	1:A:369:GLU:HB2	0.60	1.97	1	2
3:B:207:PCW:H471	3:B:232:PCW:H39	0.60	1.71	2	1
3:C:621:PCW:H352	3:C:629:PCW:H162	0.60	1.72	8	1
3:B:219:PCW:H221	3:B:233:PCW:H272	0.60	1.71	10	1
3:C:629:PCW:H242	4:C:634:17F:H45	0.60	1.72	10	1
3:B:231:PCW:C34	3:C:604:PCW:H322	0.60	2.25	3	3
3:B:203:PCW:H162	3:B:211:PCW:H39	0.60	1.73	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:144:THR:HA	2:B:150:GLN:O	0.60	1.97	4	2
3:B:211:PCW:H212	3:B:217:PCW:H411	0.60	1.73	2	1
4:B:223:17F:H43	3:C:626:PCW:H271	0.60	1.72	2	1
2:B:56:LEU:HD22	7:B:237:EWS:CBA	0.60	2.27	9	2
3:C:610:PCW:H372	3:C:614:PCW:H221	0.60	1.73	10	1
3:B:201:PCW:P	7:B:237:EWS:CAK	0.60	2.90	5	1
3:C:613:PCW:H73	3:C:627:PCW:H61	0.60	1.74	2	1
3:C:602:PCW:H271	4:C:630:17F:H52	0.60	1.74	3	1
2:B:38:ASP:HB2	2:B:57:ASP:HB3	0.60	1.73	1	1
3:B:213:PCW:H231	4:C:635:17F:H47	0.60	1.73	1	1
3:B:209:PCW:H171	3:B:213:PCW:H171	0.60	1.73	5	1
4:A:411:17F:H54	3:C:607:PCW:H222	0.60	1.71	7	2
3:B:205:PCW:H171	4:B:224:17F:H37	0.60	1.73	6	1
3:B:231:PCW:H461	3:C:604:PCW:H461	0.60	1.72	6	1
3:B:233:PCW:H351	3:C:626:PCW:H121	0.59	1.74	8	3
1:A:250:VAL:O	1:A:254:VAL:HB	0.59	1.97	1	9
3:B:220:PCW:H442	3:B:232:PCW:H251	0.59	1.71	4	1
3:B:233:PCW:H12	3:C:605:PCW:H71	0.59	1.72	2	1
3:C:615:PCW:H382	3:C:615:PCW:H151	0.59	1.74	5	1
3:B:208:PCW:H372	4:B:226:17F:H20A	0.59	1.72	9	1
4:B:234:17F:H34	4:B:234:17F:H10A	0.59	1.74	4	1
3:A:405:PCW:H19	3:B:222:PCW:H242	0.59	1.72	8	1
3:C:619:PCW:H352	3:C:621:PCW:H141	0.59	1.73	8	1
3:C:619:PCW:H411	3:C:621:PCW:H461	0.59	1.74	8	1
3:B:210:PCW:H412	4:B:224:17F:H8	0.59	1.73	10	1
3:B:201:PCW:H221	4:B:225:17F:H68	0.59	1.73	7	1
2:B:8:VAL:HG12	2:B:79:LEU:HB2	0.59	1.74	1	1
4:B:234:17F:H73	4:C:631:17F:H68	0.59	1.73	3	3
2:B:6:LEU:O	2:B:55:ILE:HA	0.59	1.96	9	6
3:B:218:PCW:H242	3:C:629:PCW:H283	0.59	1.72	10	1
3:A:407:PCW:H361	4:B:225:17F:H11	0.59	1.73	5	1
3:B:202:PCW:H331	4:B:228:17F:H6	0.59	1.75	4	2
1:A:214:PHE:HZ	3:A:404:PCW:C16	0.59	2.10	3	1
3:C:606:PCW:H412	3:C:622:PCW:H412	0.59	1.73	3	1
3:C:609:PCW:H272	4:C:632:17F:H48	0.59	1.75	8	1
1:C:451:LYS:O	1:C:455:TYR:HB2	0.59	1.98	4	6
3:C:627:PCW:H39	3:C:628:PCW:H382	0.59	1.72	5	1
1:A:393:TYR:HH	3:A:407:PCW:H262	0.59	1.54	6	1
2:B:39:SER:CB	7:B:237:EWS:BRA	0.59	3.06	7	1
3:C:611:PCW:H341	3:C:617:PCW:H352	0.59	1.74	10	1
2:B:82:PHE:HB3	2:B:93:ILE:HD11	0.59	1.74	4	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:610:PCW:H362	3:C:614:PCW:H351	0.59	1.74	7	1
2:B:32:TYR:HD1	5:B:235:GNP:H5'1	0.59	1.58	4	2
3:C:619:PCW:H381	3:C:629:PCW:H20	0.59	1.73	4	1
3:B:233:PCW:H371	3:C:606:PCW:H351	0.59	1.75	2	1
3:B:210:PCW:H341	4:B:224:17F:H5	0.59	1.75	8	2
3:C:601:PCW:H411	3:C:602:PCW:H212	0.59	1.72	8	1
2:B:45:VAL:HG22	2:B:50:THR:HB	0.59	1.73	10	1
3:B:218:PCW:H411	3:C:603:PCW:H421	0.59	1.74	10	1
4:A:411:17F:H58	3:C:624:PCW:H431	0.59	1.74	2	3
1:A:231:ASN:HA	1:A:234:LYS:HE2	0.59	1.73	2	3
3:B:220:PCW:H451	3:B:233:PCW:H271	0.59	1.75	9	1
3:C:617:PCW:H211	4:C:632:17F:H42	0.59	1.74	9	1
3:B:205:PCW:H11	3:B:207:PCW:H82	0.59	1.73	7	1
3:C:609:PCW:H371	4:C:630:17F:H56	0.59	1.73	10	1
3:B:201:PCW:O3P	7:B:237:EWS:CAN	0.59	2.50	5	1
3:B:203:PCW:H451	3:B:220:PCW:H20	0.59	1.74	6	1
3:B:209:PCW:H261	3:B:213:PCW:H461	0.59	1.74	7	1
3:A:407:PCW:H341	4:B:225:17F:H9	0.59	1.73	1	1
1:A:345:ARG:HG2	1:C:429:ASN:OD1	0.59	1.97	10	1
3:A:404:PCW:H411	3:B:217:PCW:H421	0.59	1.75	10	4
3:C:614:PCW:H72	3:C:629:PCW:H32	0.59	1.74	10	1
1:C:466:GLU:HA	1:C:469:LEU:HD12	0.59	1.73	5	2
1:A:375:LEU:HA	1:A:378:VAL:HG12	0.59	1.75	5	2
3:C:617:PCW:H232	4:C:632:17F:H45	0.59	1.75	5	1
3:B:232:PCW:H181	3:C:625:PCW:H182	0.59	1.74	6	1
3:B:211:PCW:H132	4:B:229:17F:H6A	0.59	1.75	9	4
3:A:403:PCW:H483	4:B:229:17F:H71	0.59	1.75	4	1
3:B:201:PCW:H352	4:B:225:17F:H31	0.59	1.73	2	1
3:B:211:PCW:H351	4:B:229:17F:H8A	0.58	1.73	10	4
3:B:205:PCW:H172	3:B:219:PCW:H122	0.58	1.74	6	1
4:B:229:17F:H64	3:C:619:PCW:H281	0.58	1.75	4	1
3:B:202:PCW:H172	3:B:202:PCW:H121	0.58	1.74	3	1
3:C:621:PCW:H331	3:C:629:PCW:H172	0.58	1.73	3	1
3:B:231:PCW:H412	3:C:604:PCW:H422	0.58	1.75	8	1
4:B:223:17F:H75	3:C:606:PCW:H252	0.58	1.75	5	1
3:B:211:PCW:H331	4:B:229:17F:H8A	0.58	1.74	2	2
3:B:205:PCW:C8	7:B:237:EWS:BRA	0.58	3.07	6	2
4:C:633:17F:H4A	4:C:633:17F:N1	0.58	2.13	6	2
3:A:406:PCW:H412	4:B:226:17F:H62	0.58	1.74	6	1
2:B:74:THR:CA	7:B:237:EWS:BRA	0.58	3.06	9	1
3:B:201:PCW:H252	4:B:228:17F:H64	0.58	1.75	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:407:PCW:H351	4:B:223:17F:H56	0.58	1.74	3	1
3:B:219:PCW:H232	4:B:230:17F:H74	0.58	1.75	8	1
1:A:214:PHE:CZ	3:A:404:PCW:C17	0.58	2.80	1	1
3:B:233:PCW:H212	3:C:625:PCW:H251	0.58	1.74	1	1
3:B:212:PCW:H472	3:C:613:PCW:H451	0.58	1.76	6	1
3:A:410:PCW:H351	4:C:633:17F:H12A	0.58	1.73	6	1
3:B:205:PCW:H371	4:B:224:17F:H34	0.58	1.74	9	1
3:B:209:PCW:H121	3:B:213:PCW:H321	0.58	1.76	8	1
4:B:234:17F:H71	4:B:234:17F:H41	0.58	1.74	8	1
3:B:231:PCW:H39	3:C:604:PCW:H232	0.58	1.76	5	1
3:B:218:PCW:H452	3:C:603:PCW:H451	0.58	1.74	6	1
3:B:210:PCW:H361	4:B:224:17F:H18A	0.58	1.73	9	2
3:B:220:PCW:H161	3:B:220:PCW:H39	0.58	1.73	2	1
3:B:210:PCW:H371	4:B:224:17F:H11A	0.58	1.75	9	2
3:A:401:PCW:H482	3:C:616:PCW:H20	0.58	1.76	10	1
3:C:606:PCW:H39	3:C:613:PCW:H361	0.58	1.74	2	4
3:B:205:PCW:H461	4:B:224:17F:H73	0.58	1.75	9	1
3:B:221:PCW:H132	4:B:230:17F:H6	0.58	1.74	7	1
4:B:234:17F:H71	4:C:631:17F:H68	0.58	1.75	1	2
2:B:6:LEU:HB2	2:B:55:ILE:HG12	0.58	1.75	3	2
3:B:203:PCW:H151	3:B:211:PCW:H39	0.58	1.73	8	1
4:A:411:17F:H6	3:C:624:PCW:H152	0.58	1.75	5	3
3:B:233:PCW:H421	3:C:604:PCW:H39	0.58	1.76	6	1
2:B:36:ILE:HA	2:B:59:ALA:HB2	0.58	1.74	9	2
2:B:7:VAL:HG13	7:B:237:EWS:CAU	0.58	2.29	7	1
3:C:621:PCW:H331	3:C:629:PCW:H182	0.58	1.76	7	1
3:B:202:PCW:H451	4:B:230:17F:H48	0.58	1.75	4	1
3:C:624:PCW:H212	4:C:634:17F:H19	0.58	1.76	4	1
4:B:228:17F:H66	3:C:615:PCW:H452	0.58	1.74	3	2
4:A:411:17F:H53	3:C:607:PCW:H222	0.58	1.74	2	1
3:B:221:PCW:C7	7:B:237:EWS:BRA	0.58	3.07	1	1
2:B:38:ASP:O	2:B:56:LEU:HG	0.58	1.97	1	1
3:B:209:PCW:H221	3:C:611:PCW:H483	0.58	1.75	1	1
3:B:203:PCW:H142	3:B:207:PCW:H351	0.58	1.76	10	3
3:C:611:PCW:H341	3:C:617:PCW:H362	0.58	1.75	2	3
3:B:231:PCW:H421	3:C:604:PCW:H261	0.58	1.74	6	2
3:C:607:PCW:H222	4:C:631:17F:H35	0.58	1.75	8	1
3:C:613:PCW:H382	3:C:626:PCW:H422	0.58	1.76	1	2
3:B:202:PCW:H482	3:B:212:PCW:H212	0.58	1.75	10	1
3:A:402:PCW:H212	3:B:214:PCW:H242	0.58	1.75	3	4
3:B:208:PCW:C7	7:B:237:EWS:BRA	0.57	3.05	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:410:PCW:C33	4:C:633:17F:H12A	0.57	2.29	1	1
3:A:403:PCW:H431	4:B:229:17F:H73	0.57	1.76	10	1
4:B:223:17F:C4	4:B:223:17F:H1	0.57	2.29	9	3
1:A:308:ARG:HG3	1:C:469:LEU:HD11	0.57	1.72	7	2
3:B:205:PCW:H172	3:B:219:PCW:H142	0.57	1.73	1	1
2:B:7:VAL:CG2	7:B:237:EWS:NAW	0.57	2.67	6	4
4:B:226:17F:N1	7:B:237:EWS:CAL	0.57	2.65	4	1
3:B:205:PCW:H121	3:B:220:PCW:H342	0.57	1.77	1	1
3:A:408:PCW:H341	3:B:231:PCW:H371	0.57	1.76	8	2
3:B:209:PCW:H122	3:B:213:PCW:H131	0.57	1.74	10	1
3:B:207:PCW:H12	7:B:237:EWS:CAK	0.57	2.27	6	1
2:B:80:CYS:HB3	2:B:93:ILE:HD12	0.57	1.76	9	1
3:A:408:PCW:H332	3:A:410:PCW:H341	0.57	1.75	7	2
3:B:202:PCW:H122	4:B:228:17F:H9A	0.57	1.76	2	1
3:A:403:PCW:H461	3:C:618:PCW:H452	0.57	1.76	8	1
1:C:478:ARG:O	1:C:482:GLN:HB2	0.57	1.99	10	4
3:A:402:PCW:H122	3:A:402:PCW:H341	0.57	1.75	10	2
3:A:401:PCW:H411	3:B:212:PCW:H471	0.57	1.75	6	2
3:B:207:PCW:H481	3:B:232:PCW:H141	0.57	1.76	3	1
3:B:221:PCW:H281	4:B:226:17F:H72	0.57	1.76	1	1
3:B:203:PCW:H121	3:B:207:PCW:H342	0.57	1.77	10	1
3:B:207:PCW:H212	4:C:631:17F:H76	0.57	1.76	9	2
3:B:203:PCW:H39	3:B:220:PCW:H172	0.57	1.76	7	1
3:A:401:PCW:H42	4:B:226:17F:O2	0.57	2.00	3	1
3:C:614:PCW:H341	3:C:614:PCW:H132	0.57	1.75	6	1
3:C:611:PCW:H411	3:C:617:PCW:H442	0.57	1.76	9	1
3:B:208:PCW:H471	3:C:627:PCW:H471	0.57	1.76	2	1
3:B:205:PCW:H281	3:B:233:PCW:H232	0.57	1.77	3	1
3:A:406:PCW:H352	3:B:215:PCW:H412	0.57	1.75	8	1
3:C:607:PCW:H262	4:C:631:17F:H39	0.57	1.76	5	2
3:C:613:PCW:H132	3:C:622:PCW:H151	0.57	1.76	7	1
3:A:408:PCW:H39	3:A:410:PCW:H412	0.57	1.74	2	1
3:C:611:PCW:H121	3:C:617:PCW:H342	0.57	1.76	8	1
3:B:217:PCW:H262	3:C:619:PCW:H461	0.57	1.76	8	3
3:A:407:PCW:H481	3:A:410:PCW:H211	0.57	1.75	5	1
1:A:214:PHE:HE1	3:A:404:PCW:H171	0.57	1.60	10	1
3:C:614:PCW:H132	3:C:614:PCW:H331	0.57	1.75	5	1
3:A:401:PCW:H462	3:C:613:PCW:H241	0.57	1.77	9	1
3:C:617:PCW:H231	4:C:635:17F:H44	0.57	1.75	4	2
1:A:327:LEU:HD23	1:A:330:ARG:HD2	0.56	1.77	5	1
3:B:201:PCW:O3P	7:B:237:EWS:CAK	0.56	2.52	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:203:PCW:H40	3:B:231:PCW:H281	0.56	1.76	6	1
3:B:209:PCW:H242	3:C:611:PCW:H481	0.56	1.78	2	1
3:B:207:PCW:H182	3:B:232:PCW:H283	0.56	1.77	5	1
3:C:607:PCW:H231	4:C:631:17F:H39	0.56	1.76	2	1
3:B:218:PCW:H461	3:C:629:PCW:H281	0.56	1.77	2	2
3:B:219:PCW:H331	3:B:219:PCW:H132	0.56	1.77	6	1
3:B:208:PCW:H31	3:B:221:PCW:H131	0.56	1.78	7	1
4:B:227:17F:O2	3:C:602:PCW:H73	0.56	2.00	7	1
3:B:210:PCW:H351	4:B:224:17F:H19	0.56	1.78	3	1
3:B:203:PCW:H261	3:B:217:PCW:H442	0.56	1.77	1	1
4:B:228:17F:H61	3:C:615:PCW:H462	0.56	1.77	1	1
2:B:45:VAL:HA	2:B:50:THR:HA	0.56	1.78	8	2
3:A:408:PCW:H11	3:B:231:PCW:H321	0.56	1.77	3	3
3:C:610:PCW:H182	3:C:614:PCW:H171	0.56	1.78	9	2
3:A:408:PCW:H141	3:C:620:PCW:H141	0.56	1.77	6	1
3:A:402:PCW:H342	3:B:214:PCW:H152	0.56	1.77	1	1
3:C:613:PCW:H39	3:C:627:PCW:H242	0.56	1.76	8	1
3:B:217:PCW:H282	3:C:619:PCW:H482	0.56	1.78	5	3
1:C:414:LYS:O	1:C:418:GLN:HG3	0.56	2.00	3	2
3:A:409:PCW:H431	3:C:627:PCW:H231	0.56	1.77	6	1
3:C:610:PCW:H382	3:C:614:PCW:H371	0.56	1.77	2	2
3:B:216:PCW:H481	3:C:603:PCW:H412	0.56	1.76	2	1
3:C:602:PCW:H462	3:C:609:PCW:H252	0.56	1.76	2	1
3:B:213:PCW:H482	4:C:635:17F:H66	0.56	1.77	3	1
3:B:202:PCW:H483	3:B:208:PCW:H381	0.56	1.76	1	1
3:B:207:PCW:H19	4:B:234:17F:H45	0.56	1.77	5	1
3:B:203:PCW:H212	3:B:217:PCW:H211	0.56	1.78	9	1
3:B:232:PCW:H341	3:C:625:PCW:H151	0.56	1.78	7	1
3:B:206:PCW:H262	3:C:602:PCW:H411	0.56	1.78	3	1
3:A:402:PCW:H272	3:B:209:PCW:H283	0.56	1.76	10	1
1:A:396:LYS:HZ3	3:A:407:PCW:C27	0.56	1.90	5	1
1:A:242:GLU:HB3	1:C:532:ARG:HH21	0.56	1.61	7	1
3:C:611:PCW:H162	3:C:628:PCW:H271	0.56	1.76	4	1
3:A:406:PCW:H341	3:B:206:PCW:H342	0.56	1.76	5	1
3:A:402:PCW:H322	3:A:402:PCW:H83	0.56	1.78	9	1
3:C:609:PCW:H161	4:C:630:17F:H34	0.56	1.76	2	1
3:B:201:PCW:H221	4:B:225:17F:H69	0.56	1.75	3	1
2:B:7:VAL:HG13	7:B:237:EWS:CAX	0.56	2.31	3	1
3:C:605:PCW:H62	3:C:605:PCW:H331	0.56	1.78	3	1
3:B:220:PCW:H271	3:B:231:PCW:H452	0.56	1.78	8	1
3:C:615:PCW:H132	3:C:622:PCW:H371	0.56	1.77	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:210:PCW:H222	4:B:227:17F:H43	0.56	1.76	6	1
3:B:213:PCW:H272	4:C:630:17F:H74	0.56	1.78	9	1
1:A:279:LEU:HB3	1:C:495:LYS:HD3	0.56	1.78	7	1
4:B:230:17F:H38	3:C:605:PCW:H282	0.56	1.77	7	1
3:A:408:PCW:H40	3:A:410:PCW:H441	0.56	1.78	8	1
3:A:401:PCW:H261	3:C:622:PCW:H281	0.56	1.77	8	1
3:B:209:PCW:H351	3:B:213:PCW:H141	0.56	1.76	10	2
4:B:228:17F:H9	4:B:228:17F:H19	0.56	1.78	4	1
3:B:217:PCW:H261	3:C:619:PCW:H461	0.56	1.76	4	1
3:A:408:PCW:H381	3:A:408:PCW:H171	0.56	1.77	2	1
3:B:202:PCW:H342	3:B:202:PCW:H131	0.56	1.77	1	1
3:C:618:PCW:H142	3:C:620:PCW:H431	0.56	1.77	1	1
3:B:207:PCW:N	7:B:237:EWS:BRA	0.55	2.94	10	1
3:C:607:PCW:H161	3:C:607:PCW:H342	0.55	1.77	10	1
3:C:622:PCW:H381	3:C:622:PCW:H151	0.55	1.76	5	2
3:C:621:PCW:H352	3:C:629:PCW:H172	0.55	1.76	6	1
4:B:225:17F:H10	3:C:626:PCW:H281	0.55	1.78	9	1
1:A:308:ARG:HG2	1:C:469:LEU:CG	0.55	2.29	4	1
3:A:407:PCW:H121	4:B:223:17F:H57	0.55	1.78	4	1
4:A:411:17F:H37	3:C:624:PCW:H461	0.55	1.77	1	2
2:B:7:VAL:HG23	7:B:237:EWS:CAX	0.55	2.29	8	1
3:A:408:PCW:H181	3:C:604:PCW:H252	0.55	1.78	10	1
3:B:213:PCW:H221	4:B:227:17F:H46	0.55	1.78	5	2
3:A:407:PCW:H2	4:B:223:17F:H18	0.55	1.78	4	1
1:C:455:TYR:HH	3:C:601:PCW:C20	0.55	2.12	3	1
3:B:217:PCW:H11	7:B:237:EWS:CAN	0.55	2.31	7	1
1:C:488:LYS:HE2	3:C:623:PCW:H283	0.55	0.58	4	1
3:B:212:PCW:H40	3:C:613:PCW:H482	0.55	1.77	3	1
3:C:610:PCW:H122	3:C:614:PCW:H212	0.55	1.79	3	1
1:C:466:GLU:OE1	1:C:469:LEU:HD12	0.55	2.01	10	1
3:B:205:PCW:H231	3:B:219:PCW:H411	0.55	1.77	6	1
3:C:622:PCW:H381	3:C:622:PCW:H142	0.55	1.79	6	1
2:B:70:GLN:CG	3:B:220:PCW:H41	0.55	2.29	9	1
2:B:116:ASN:HA	2:B:144:THR:O	0.55	2.02	4	1
3:B:203:PCW:H352	3:B:220:PCW:H132	0.55	1.78	4	1
3:A:401:PCW:H411	3:B:212:PCW:H452	0.55	1.79	2	1
3:C:621:PCW:H122	3:C:629:PCW:H181	0.55	1.78	8	4
3:C:618:PCW:H2	3:C:620:PCW:H352	0.55	1.79	1	3
2:B:5:LYS:HG3	7:B:237:EWS:CAT	0.55	2.31	6	1
4:B:234:17F:H70	3:C:607:PCW:H262	0.55	1.79	1	1
3:B:210:PCW:H152	4:B:224:17F:H4	0.55	1.78	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:202:PCW:H272	3:C:622:PCW:H262	0.55	1.77	10	1
1:A:214:PHE:CE1	3:A:404:PCW:C16	0.55	2.88	4	2
3:C:624:PCW:H421	4:C:634:17F:H60	0.55	1.78	5	1
3:A:407:PCW:H472	4:B:223:17F:H72	0.55	1.79	9	1
3:B:201:PCW:H351	4:B:226:17F:H38	0.55	1.79	9	1
3:A:406:PCW:H432	4:B:226:17F:H70	0.55	1.78	7	1
3:A:401:PCW:H341	3:B:212:PCW:H371	0.55	1.78	3	1
4:B:226:17F:H10	4:B:230:17F:H8	0.55	1.77	8	3
3:B:210:PCW:H121	4:B:224:17F:H19A	0.55	1.79	9	1
1:A:277:GLU:HB2	1:A:278:PRO:HD3	0.55	1.78	7	2
3:A:409:PCW:H412	3:C:627:PCW:H432	0.55	1.77	4	1
4:B:225:17F:H59	3:C:626:PCW:H282	0.55	1.79	2	2
3:B:219:PCW:H20	3:B:233:PCW:H272	0.55	1.78	8	1
3:B:207:PCW:C1	7:B:237:EWS:CAO	0.55	2.83	6	1
3:C:613:PCW:H322	3:C:622:PCW:H122	0.55	1.78	6	2
1:C:447:GLU:OE1	1:C:451:LYS:HE2	0.55	2.01	9	2
3:A:408:PCW:H352	3:A:410:PCW:H341	0.55	1.79	3	1
4:B:229:17F:H1	4:B:229:17F:C4	0.55	2.32	6	1
3:A:409:PCW:H351	3:C:627:PCW:H341	0.55	1.78	9	1
3:B:209:PCW:H271	3:C:611:PCW:H483	0.55	1.78	7	1
3:A:401:PCW:H83	4:B:226:17F:O2	0.55	2.01	4	1
4:B:234:17F:H77	4:B:234:17F:H48	0.55	1.78	4	1
3:B:211:PCW:H151	4:B:229:17F:C6	0.55	2.32	2	1
4:A:411:17F:H31	4:A:411:17F:H10	0.55	1.78	3	1
4:B:229:17F:H58	4:B:229:17F:H10A	0.54	1.79	9	1
3:B:217:PCW:C1	7:B:237:EWS:CAM	0.54	2.83	7	1
3:B:201:PCW:H342	3:B:219:PCW:H351	0.54	1.79	1	1
1:C:455:TYR:OH	3:C:601:PCW:H20	0.54	2.00	3	2
3:C:621:PCW:H331	3:C:629:PCW:H181	0.54	1.79	5	1
2:B:41:ARG:HD2	2:B:52:LEU:HG	0.54	1.78	3	1
3:B:209:PCW:H142	3:B:213:PCW:H151	0.54	1.79	6	1
3:B:220:PCW:H281	3:C:625:PCW:H222	0.54	1.79	4	1
3:C:609:PCW:H181	4:C:630:17F:H34	0.54	1.79	4	1
3:B:203:PCW:P	7:B:237:EWS:CAO	0.54	2.96	8	1
3:C:609:PCW:H171	4:C:632:17F:H20A	0.54	1.79	8	1
2:B:22:GLN:O	2:B:26:ASN:HA	0.54	2.03	5	8
4:B:234:17F:H34	3:C:625:PCW:H141	0.54	1.79	10	1
1:A:330:ARG:NH2	1:C:444:ASP:HA	0.54	2.17	5	1
3:B:220:PCW:H452	3:B:233:PCW:H252	0.54	1.80	7	1
3:B:215:PCW:H481	4:B:226:17F:H75	0.54	1.78	3	1
3:B:219:PCW:H231	4:B:224:17F:H43	0.54	1.80	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:232:PCW:H351	3:C:619:PCW:H341	0.54	1.80	9	2
3:A:407:PCW:H122	4:B:223:17F:C20	0.54	2.33	6	2
3:A:402:PCW:H372	3:B:214:PCW:H182	0.54	1.78	7	1
1:A:239:LEU:HA	1:A:242:GLU:HB2	0.54	1.79	2	1
3:B:202:PCW:H152	3:B:212:PCW:H412	0.54	1.78	2	1
3:B:211:PCW:H362	4:B:229:17F:H10A	0.54	1.78	2	1
1:A:288:ARG:O	1:A:292:HIS:HB2	0.54	2.03	3	1
4:B:234:17F:H40	4:B:234:17F:H69	0.54	1.77	10	2
3:B:205:PCW:H122	3:B:207:PCW:H131	0.54	1.79	6	3
3:C:628:PCW:H142	3:C:628:PCW:H362	0.54	1.79	5	2
3:A:406:PCW:H441	3:A:409:PCW:H231	0.54	1.80	1	1
1:A:307:ASP:HA	1:A:310:ARG:HD2	0.54	1.80	9	2
3:C:611:PCW:H252	3:C:617:PCW:H441	0.54	1.80	6	1
3:A:407:PCW:H371	4:B:223:17F:H56	0.54	1.80	9	1
3:C:611:PCW:H461	4:C:635:17F:H41	0.54	1.78	4	1
3:A:408:PCW:H351	3:A:410:PCW:H351	0.54	1.80	1	1
2:B:39:SER:HA	2:B:56:LEU:HG	0.54	1.79	9	1
3:C:607:PCW:H483	3:C:611:PCW:H371	0.54	1.79	4	1
1:A:312:HIS:HE1	1:C:465:GLU:HB2	0.54	1.63	2	3
3:B:209:PCW:H122	3:B:213:PCW:C13	0.54	2.32	8	1
3:B:217:PCW:H283	3:B:218:PCW:H272	0.54	1.77	8	1
3:B:201:PCW:H211	4:B:225:17F:H61	0.54	1.79	10	1
1:C:519:ALA:HB3	1:C:520:PRO:HD3	0.54	1.79	10	1
2:B:163:ILE:HG22	2:B:167:LYS:HE3	0.54	1.80	6	1
4:A:411:17F:H4A	3:C:624:PCW:H132	0.53	1.78	8	2
1:A:301:LEU:HD13	1:C:473:LYS:HG2	0.53	1.79	10	2
1:C:401:LEU:O	1:C:405:TRP:HB2	0.53	2.03	5	1
3:C:614:PCW:C13	3:C:614:PCW:H331	0.53	2.33	5	1
3:B:212:PCW:H422	3:C:613:PCW:H481	0.53	1.80	9	1
3:B:212:PCW:H181	4:B:226:17F:H10A	0.53	1.80	9	1
3:C:617:PCW:H212	4:C:632:17F:H42	0.53	1.79	7	1
2:B:117:LYS:HB3	2:B:120:LEU:HD13	0.53	1.81	1	1
2:B:41:ARG:HD2	2:B:52:LEU:HD21	0.53	1.80	1	1
3:A:405:PCW:H251	4:C:634:17F:H55	0.53	1.79	8	1
3:B:208:PCW:H31	3:B:221:PCW:H121	0.53	1.79	2	1
3:C:611:PCW:H161	3:C:628:PCW:H282	0.53	1.79	2	1
3:B:218:PCW:H441	3:C:629:PCW:H281	0.53	1.81	3	1
2:B:4:TYR:HB2	2:B:53:LEU:HD23	0.53	1.79	1	1
3:B:231:PCW:H361	3:C:604:PCW:H352	0.53	1.81	9	3
3:B:203:PCW:H321	3:B:211:PCW:H332	0.53	1.80	10	1
1:C:491:GLU:O	1:C:495:LYS:HG3	0.53	2.03	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:469:LEU:HD22	1:C:473:LYS:NZ	0.53	2.18	2	1
3:B:220:PCW:H483	3:B:232:PCW:H442	0.53	1.80	3	1
2:B:84:ILE:CD1	2:B:118:CYS:HA	0.53	2.32	2	3
3:B:208:PCW:H142	3:B:221:PCW:H212	0.53	1.81	6	1
3:B:208:PCW:C6	7:B:237:EWS:BRA	0.53	3.09	4	1
2:B:71:TYR:CA	7:B:237:EWS:CAC	0.53	2.76	1	1
1:C:567:GLU:O	1:C:571:GLN:CB	0.53	2.57	8	1
3:A:401:PCW:H73	3:B:212:PCW:H12	0.53	1.78	10	1
3:B:204:PCW:H352	4:B:223:17F:H29	0.53	1.81	6	1
3:B:231:PCW:H482	3:C:604:PCW:H482	0.53	1.78	6	1
1:C:474:VAL:O	1:C:478:ARG:HB2	0.53	2.04	1	2
1:A:369:GLU:O	1:A:373:GLN:CG	0.53	2.50	9	1
3:A:402:PCW:H351	3:B:213:PCW:H322	0.53	1.80	7	1
3:B:207:PCW:O4P	7:B:237:EWS:CAL	0.53	2.57	7	1
3:C:606:PCW:H211	3:C:615:PCW:H142	0.53	1.80	7	1
1:C:544:LEU:O	1:C:548:HIS:HB2	0.53	2.03	8	1
3:C:612:PCW:H31	4:C:634:17F:H6	0.53	1.79	8	2
2:B:74:THR:HG23	7:B:237:EWS:CAD	0.53	2.34	10	1
3:B:212:PCW:H432	3:B:212:PCW:H20	0.53	1.79	7	2
3:B:206:PCW:H71	3:B:215:PCW:H12	0.53	1.78	2	1
4:B:223:17F:H46	3:C:626:PCW:H252	0.53	1.80	2	1
3:A:404:PCW:H381	3:B:217:PCW:H432	0.53	1.81	9	1
3:C:613:PCW:H141	3:C:622:PCW:H19	0.53	1.78	9	1
1:A:301:LEU:HB3	1:C:473:LYS:HE3	0.53	1.81	3	1
3:B:203:PCW:H331	3:B:211:PCW:H322	0.53	1.80	3	1
3:A:402:PCW:H181	3:B:214:PCW:H231	0.53	1.81	6	1
3:B:217:PCW:H221	4:C:634:17F:H54	0.53	1.81	6	1
3:C:607:PCW:H421	3:C:611:PCW:H11	0.53	1.80	6	1
3:B:213:PCW:H342	3:B:216:PCW:H122	0.53	1.80	7	1
2:B:82:PHE:HE2	2:B:113:LEU:HG	0.53	1.64	1	2
3:A:406:PCW:H212	3:A:409:PCW:H241	0.53	1.81	1	1
3:B:218:PCW:H232	3:B:218:PCW:H432	0.53	1.79	8	1
2:B:84:ILE:HD13	2:B:118:CYS:HA	0.53	1.81	8	1
3:C:627:PCW:H371	3:C:628:PCW:H382	0.53	1.81	8	1
3:B:213:PCW:H283	3:C:611:PCW:H412	0.53	1.81	9	1
1:A:243:MET:HA	1:A:246:ASP:HB2	0.53	1.79	7	1
3:C:618:PCW:H322	3:C:620:PCW:H39	0.53	1.79	4	1
4:B:234:17F:H56	3:C:625:PCW:H181	0.53	1.81	3	1
3:C:613:PCW:H411	3:C:613:PCW:H19	0.53	1.79	1	1
3:A:409:PCW:O31	3:C:627:PCW:H362	0.53	2.04	1	1
3:A:406:PCW:H162	3:A:409:PCW:H271	0.53	1.80	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:611:PCW:H182	3:C:617:PCW:H362	0.53	1.81	10	1
3:C:606:PCW:H461	3:C:615:PCW:H172	0.53	1.80	5	1
1:C:465:GLU:O	1:C:469:LEU:HD12	0.53	2.02	6	1
3:B:215:PCW:H251	3:C:609:PCW:H482	0.53	1.81	4	1
3:B:209:PCW:H232	3:B:213:PCW:H421	0.53	1.81	3	1
3:A:403:PCW:H172	3:A:403:PCW:H351	0.53	1.79	1	1
2:B:68:ARG:HA	2:B:71:TYR:CE2	0.52	2.39	8	4
3:A:408:PCW:H422	3:A:410:PCW:H441	0.52	1.81	10	1
3:C:611:PCW:H252	3:C:617:PCW:H431	0.52	1.80	10	1
3:A:406:PCW:H232	3:A:409:PCW:H262	0.52	1.80	7	1
1:C:455:TYR:HE2	3:C:601:PCW:C23	0.52	2.16	3	1
4:B:234:17F:H33	3:C:625:PCW:H19	0.52	1.80	1	1
3:C:607:PCW:H172	3:C:607:PCW:H342	0.52	1.80	1	1
3:B:220:PCW:H251	3:C:604:PCW:H471	0.52	1.81	2	1
3:C:619:PCW:H411	3:C:621:PCW:H211	0.52	1.81	2	1
3:B:205:PCW:H251	3:B:220:PCW:H211	0.52	1.80	3	1
3:B:208:PCW:H472	4:B:226:17F:H65	0.52	1.80	8	1
3:C:609:PCW:H283	4:C:632:17F:H48	0.52	1.80	6	2
3:B:201:PCW:H232	3:C:613:PCW:H483	0.52	1.81	7	1
3:B:219:PCW:O31	4:B:230:17F:H20	0.52	2.04	4	1
3:A:408:PCW:H331	3:A:408:PCW:H131	0.52	1.79	8	2
3:A:406:PCW:H141	3:A:406:PCW:H361	0.52	1.82	10	1
3:B:218:PCW:H362	3:B:218:PCW:H162	0.52	1.80	5	1
3:B:203:PCW:H262	3:B:217:PCW:H161	0.52	1.80	7	1
3:B:208:PCW:H121	3:B:221:PCW:H162	0.52	1.82	4	1
3:B:212:PCW:H483	3:C:613:PCW:H451	0.52	1.80	4	1
3:C:610:PCW:H372	3:C:614:PCW:H211	0.52	1.81	1	2
3:B:201:PCW:H182	4:B:228:17F:H18	0.52	1.80	3	1
3:B:209:PCW:H81	4:B:227:17F:H1	0.52	1.82	3	1
3:B:216:PCW:H171	4:B:227:17F:H37	0.52	1.80	3	1
3:B:232:PCW:H151	3:C:625:PCW:H182	0.52	1.81	8	1
3:A:406:PCW:H12	4:B:226:17F:O1	0.52	2.05	10	2
3:B:214:PCW:O3P	3:C:603:PCW:H71	0.52	2.05	5	1
3:A:406:PCW:H242	3:A:409:PCW:H241	0.52	1.82	9	1
3:B:203:PCW:H481	3:B:233:PCW:H483	0.52	1.80	7	1
3:B:205:PCW:C1	3:B:207:PCW:H82	0.52	2.34	7	1
3:B:220:PCW:H251	3:B:232:PCW:H211	0.52	1.81	4	1
3:B:213:PCW:H483	4:C:635:17F:H66	0.52	1.82	4	2
1:C:417:GLU:O	1:C:421:PRO:HD2	0.52	2.04	8	5
3:C:627:PCW:H372	3:C:628:PCW:H141	0.52	1.80	9	5
3:C:619:PCW:H39	3:C:629:PCW:H221	0.52	1.81	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:209:PCW:H182	3:B:213:PCW:H361	0.52	1.81	5	1
3:B:203:PCW:O3P	3:B:220:PCW:H81	0.52	2.04	5	1
3:B:222:PCW:H461	4:C:634:17F:H47	0.52	1.81	1	2
3:C:609:PCW:H83	3:C:611:PCW:H141	0.52	1.82	6	1
3:A:410:PCW:H251	4:C:633:17F:H53	0.52	1.80	7	1
3:B:221:PCW:H52	3:B:221:PCW:H31	0.52	1.82	4	1
3:C:621:PCW:H382	3:C:629:PCW:H161	0.52	1.79	3	1
3:B:212:PCW:H461	3:C:613:PCW:H462	0.52	1.80	1	1
3:B:215:PCW:H271	3:C:608:PCW:H451	0.52	1.81	8	1
1:C:510:HIS:O	1:C:514:LEU:HG	0.52	2.04	7	1
1:A:363:LYS:HE2	1:C:411:THR:HB	0.52	1.80	2	1
3:B:211:PCW:H271	3:C:619:PCW:H272	0.52	1.81	4	2
3:B:213:PCW:H462	4:C:635:17F:H69	0.52	1.82	10	1
3:A:405:PCW:H352	3:A:405:PCW:H122	0.52	1.81	5	1
3:C:618:PCW:H181	3:C:620:PCW:H451	0.52	1.82	5	1
4:B:223:17F:H50	3:C:626:PCW:H251	0.52	1.81	6	1
3:A:407:PCW:H121	4:B:223:17F:H20	0.52	1.80	7	1
3:B:221:PCW:H283	4:B:226:17F:H69	0.52	1.82	7	1
3:C:613:PCW:H83	3:C:626:PCW:H322	0.52	1.82	7	1
2:B:7:VAL:CG1	7:B:237:EWS:CAX	0.52	2.88	3	2
3:C:611:PCW:H151	3:C:617:PCW:H321	0.52	1.82	7	1
3:A:409:PCW:H422	3:C:605:PCW:H20	0.52	1.82	8	1
3:B:205:PCW:H252	3:B:220:PCW:H171	0.52	1.80	10	1
2:B:105:ASP:HB3	3:B:203:PCW:H72	0.52	1.82	5	1
1:C:465:GLU:O	1:C:469:LEU:HB2	0.52	2.01	6	1
1:C:568:ASP:OD1	1:C:571:GLN:OE1	0.52	2.28	9	1
3:C:607:PCW:H231	4:C:631:17F:H35	0.52	1.80	9	1
3:B:210:PCW:H151	4:B:227:17F:H10	0.52	1.81	2	3
4:B:228:17F:H70	3:C:622:PCW:H451	0.52	1.81	7	1
2:B:24:ILE:HG13	2:B:40:TYR:HB3	0.52	1.82	7	1
3:A:405:PCW:H332	3:B:222:PCW:H122	0.52	1.81	4	1
1:C:589:GLU:HG2	1:C:593:LYS:HE2	0.52	1.80	2	1
3:B:205:PCW:C6	7:B:237:EWS:BRA	0.51	3.12	6	1
3:B:209:PCW:H162	3:B:213:PCW:H161	0.51	1.83	7	1
2:B:41:ARG:HA	2:B:53:LEU:O	0.51	2.04	4	1
1:C:488:LYS:HD3	3:C:623:PCW:H271	0.51	0.52	4	1
3:B:219:PCW:H31	3:B:220:PCW:H12	0.51	1.81	2	1
2:B:74:THR:HA	4:B:230:17F:HN1A	0.51	1.65	3	1
3:B:201:PCW:H261	3:B:212:PCW:H452	0.51	1.80	8	1
3:B:213:PCW:H39	3:B:214:PCW:H212	0.51	1.82	5	1
3:B:203:PCW:H452	4:B:223:17F:H44	0.51	1.81	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:613:PCW:H162	3:C:626:PCW:H452	0.51	1.81	5	1
3:C:606:PCW:H222	3:C:615:PCW:H172	0.51	1.82	6	1
3:B:207:PCW:H281	3:C:625:PCW:H461	0.51	1.82	6	2
1:A:214:PHE:CZ	3:A:404:PCW:H172	0.51	2.41	9	1
3:B:204:PCW:H361	4:B:223:17F:H10A	0.51	1.82	4	1
3:B:210:PCW:H182	4:B:227:17F:H30	0.51	1.82	3	1
3:A:410:PCW:H331	4:C:633:17F:C12	0.51	2.35	10	1
3:B:219:PCW:H331	3:B:219:PCW:H152	0.51	1.82	9	1
3:C:621:PCW:H352	3:C:629:PCW:H182	0.51	1.82	4	1
3:B:206:PCW:H282	3:B:215:PCW:H161	0.51	1.81	3	1
4:B:234:17F:H62	4:C:631:17F:H63	0.51	1.81	10	1
4:B:228:17F:C4	4:B:228:17F:C1	0.51	2.87	2	2
2:B:79:LEU:HD23	2:B:112:VAL:HB	0.51	1.81	7	2
1:C:559:SER:HA	1:C:562:ALA:HB3	0.51	1.82	9	1
3:A:408:PCW:H32	3:C:620:PCW:H63	0.51	1.82	5	5
3:C:616:PCW:H172	3:C:616:PCW:H411	0.51	1.81	5	1
3:B:206:PCW:H242	3:B:215:PCW:H20	0.51	1.83	10	1
3:A:409:PCW:H451	3:C:605:PCW:H231	0.51	1.82	10	1
3:B:216:PCW:H19	3:C:617:PCW:H481	0.51	1.82	5	1
3:B:203:PCW:H212	3:B:217:PCW:H181	0.51	1.82	2	1
3:B:211:PCW:H61	4:B:229:17F:O2	0.51	2.06	3	2
3:B:233:PCW:H382	3:C:606:PCW:H351	0.51	1.80	3	1
3:A:407:PCW:H121	4:B:223:17F:C1Z	0.51	2.34	9	3
3:A:406:PCW:H432	3:A:409:PCW:H251	0.51	1.80	6	1
1:A:308:ARG:HD3	1:C:469:LEU:CD2	0.51	2.32	6	1
1:A:338:LEU:HA	1:A:341:ASN:HB3	0.51	1.82	9	1
3:B:203:PCW:H483	4:B:223:17F:H48	0.51	1.83	7	1
1:C:469:LEU:O	1:C:473:LYS:HB2	0.51	2.05	4	2
3:B:231:PCW:H412	3:C:604:PCW:H421	0.51	1.82	2	3
1:A:221:LEU:HA	1:A:224:VAL:HG12	0.51	1.83	8	2
3:C:611:PCW:H461	4:C:635:17F:H39	0.51	1.81	8	1
3:B:210:PCW:H382	4:B:224:17F:H10	0.51	1.81	5	1
4:B:227:17F:H66	3:C:602:PCW:H421	0.51	1.82	7	1
3:B:211:PCW:H332	4:B:229:17F:H8A	0.51	1.83	1	2
3:B:206:PCW:H142	3:B:208:PCW:H181	0.51	1.83	8	1
3:C:613:PCW:H362	3:C:613:PCW:H171	0.51	1.82	8	1
3:C:610:PCW:H351	3:C:614:PCW:H382	0.51	1.83	10	3
3:B:206:PCW:H351	3:B:215:PCW:H412	0.51	1.81	5	1
3:A:407:PCW:C34	4:B:225:17F:H9	0.51	2.28	6	3
3:A:408:PCW:H351	3:A:410:PCW:H362	0.51	1.82	9	1
3:B:205:PCW:H31	3:B:205:PCW:H41	0.51	1.82	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:491:GLU:HB3	1:C:495:LYS:HE2	0.51	1.83	7	1
2:B:3:GLU:OE2	3:B:221:PCW:H63	0.51	2.05	4	1
3:B:219:PCW:H20	3:C:605:PCW:H281	0.51	1.81	4	1
4:B:225:17F:H59	3:C:626:PCW:H283	0.51	1.82	5	1
4:C:635:17F:H57	4:C:635:17F:H30	0.51	1.82	5	1
3:B:221:PCW:H281	3:C:627:PCW:H482	0.51	1.83	7	1
3:A:405:PCW:H372	3:A:405:PCW:H141	0.50	1.83	5	1
3:C:615:PCW:H281	3:C:626:PCW:H251	0.50	1.81	9	1
4:A:411:17F:H49	3:C:607:PCW:H242	0.50	1.82	7	1
3:B:202:PCW:H261	4:B:228:17F:H65	0.50	1.82	3	1
1:A:310:ARG:O	1:A:314:ASP:HB2	0.50	2.07	10	2
4:B:223:17F:H55	3:C:626:PCW:H232	0.50	1.83	6	1
3:C:615:PCW:O1P	3:C:622:PCW:H11	0.50	2.06	6	2
3:B:202:PCW:H362	3:B:212:PCW:H372	0.50	1.82	9	1
4:B:234:17F:H35	3:C:625:PCW:H272	0.50	1.83	9	1
3:B:220:PCW:H482	3:C:625:PCW:H232	0.50	1.83	7	1
3:A:402:PCW:H81	3:B:214:PCW:H132	0.50	1.83	4	1
3:A:406:PCW:H142	3:A:409:PCW:H252	0.50	1.82	3	1
3:B:201:PCW:H171	4:B:225:17F:H60	0.50	1.83	3	1
3:B:211:PCW:H262	3:B:217:PCW:H451	0.50	1.83	1	1
1:A:330:ARG:HH21	1:C:447:GLU:HB3	0.50	1.67	10	2
1:A:202:LYS:HZ3	1:A:202:LYS:HB3	0.50	1.66	9	1
3:B:207:PCW:H362	3:B:211:PCW:H372	0.50	1.83	7	1
3:B:211:PCW:H151	4:B:229:17F:H6A	0.50	1.82	2	1
3:B:203:PCW:H242	3:B:211:PCW:H451	0.50	1.83	1	1
3:B:211:PCW:H171	4:B:229:17F:H33	0.50	1.83	8	1
4:B:223:17F:H43	3:C:626:PCW:H272	0.50	1.84	8	2
3:B:220:PCW:H462	3:B:232:PCW:H481	0.50	1.83	10	1
3:A:406:PCW:H172	4:B:226:17F:H64	0.50	1.83	4	1
3:B:213:PCW:H232	4:B:227:17F:H51	0.50	1.82	2	1
3:A:407:PCW:H122	4:B:223:17F:H33	0.50	1.82	3	1
3:A:408:PCW:H372	3:A:410:PCW:H351	0.50	1.83	3	1
3:B:219:PCW:H461	4:B:223:17F:H45	0.50	1.82	3	1
3:B:211:PCW:H421	4:B:229:17F:H60	0.50	1.83	3	1
3:B:202:PCW:H321	3:B:212:PCW:H81	0.50	1.84	8	1
3:A:406:PCW:H2	4:B:226:17F:O10	0.50	2.07	10	1
3:B:218:PCW:H182	3:B:218:PCW:H362	0.50	1.83	4	2
4:B:223:17F:H46	3:C:626:PCW:H251	0.50	1.82	4	1
3:B:208:PCW:H141	3:B:215:PCW:H372	0.50	1.83	3	1
1:C:443:LYS:O	1:C:447:GLU:HB2	0.50	2.07	9	2
3:B:221:PCW:H39	4:B:230:17F:H71	0.50	1.83	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:B:226:17F:H72	3:C:628:PCW:H451	0.50	1.82	9	1
3:B:202:PCW:H362	3:B:212:PCW:H381	0.50	1.83	7	3
3:B:203:PCW:H362	3:B:204:PCW:H122	0.50	1.83	7	1
3:A:407:PCW:C15	4:B:223:17F:H33	0.50	2.35	7	1
3:C:621:PCW:H342	3:C:629:PCW:H371	0.50	1.82	7	1
3:C:611:PCW:C15	3:C:617:PCW:H321	0.50	2.36	3	1
3:B:221:PCW:H42	7:B:237:EWS:BRA	0.50	2.59	1	1
3:B:205:PCW:H161	3:B:207:PCW:H171	0.50	1.82	10	1
1:C:427:TRP:HA	1:C:427:TRP:CE3	0.50	2.40	6	1
3:C:603:PCW:H483	3:C:624:PCW:H252	0.50	1.84	6	1
3:C:607:PCW:H342	3:C:607:PCW:H161	0.50	1.82	6	1
3:B:219:PCW:H221	3:B:233:PCW:H282	0.50	1.84	9	1
4:B:225:17F:H76	3:C:606:PCW:C48	0.50	2.37	9	1
3:A:406:PCW:H382	3:A:406:PCW:H141	0.50	1.84	2	1
3:B:212:PCW:H171	3:B:212:PCW:H371	0.50	1.84	2	1
3:C:621:PCW:H122	3:C:629:PCW:H182	0.50	1.82	2	1
1:C:442:SER:O	1:C:446:GLU:HB2	0.50	2.07	3	1
3:A:407:PCW:H152	4:B:223:17F:H20	0.50	1.84	1	1
3:B:209:PCW:H161	3:B:216:PCW:H181	0.50	1.83	6	1
3:B:220:PCW:H142	3:B:220:PCW:H382	0.50	1.84	9	1
3:B:217:PCW:H261	3:B:218:PCW:H241	0.50	1.84	10	1
3:B:219:PCW:H421	4:B:223:17F:H38	0.50	1.84	10	1
3:B:220:PCW:H472	3:B:233:PCW:H282	0.50	1.83	10	2
3:B:231:PCW:H141	3:C:604:PCW:H19	0.50	1.83	5	2
3:B:205:PCW:H83	7:B:237:EWS:CAR	0.50	2.36	6	1
4:B:234:17F:H70	3:C:607:PCW:H283	0.50	1.83	2	1
4:B:228:17F:H11A	4:B:228:17F:H31	0.50	1.83	1	1
3:A:406:PCW:H432	3:A:409:PCW:H221	0.49	1.82	8	1
2:B:7:VAL:HB	2:B:78:PHE:CE1	0.49	2.41	8	1
3:C:611:PCW:H152	3:C:617:PCW:H332	0.49	1.84	10	1
3:C:613:PCW:H222	3:C:622:PCW:H242	0.49	1.83	5	1
3:A:406:PCW:H382	4:B:226:17F:H60	0.49	1.83	9	1
3:B:201:PCW:H20	4:B:228:17F:H34	0.49	1.83	4	1
1:A:275:LYS:O	1:A:279:LEU:HB2	0.49	2.06	2	1
1:C:421:PRO:O	1:C:425:GLU:HG3	0.49	2.07	4	1
4:B:229:17F:H55	3:B:231:PCW:H182	0.49	1.83	3	1
1:A:214:PHE:CE2	3:A:404:PCW:H171	0.49	2.39	1	1
3:B:218:PCW:H432	3:B:222:PCW:H421	0.49	1.84	1	1
2:B:63:GLU:O	2:B:68:ARG:HG2	0.49	2.06	1	1
1:C:470:TYR:CD1	4:C:632:17F:H76	0.49	2.41	1	1
3:C:608:PCW:H62	4:C:630:17F:H2	0.49	1.83	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:209:PCW:H432	3:C:617:PCW:H252	0.49	1.84	9	1
1:A:253:LYS:O	1:A:257:TYR:HB2	0.49	2.07	7	1
3:A:405:PCW:H42	3:B:222:PCW:H32	0.49	1.84	4	1
3:A:409:PCW:H441	3:C:605:PCW:H222	0.49	1.83	1	1
3:B:217:PCW:H321	3:B:217:PCW:H41	0.49	1.83	1	1
1:A:393:TYR:OH	3:A:407:PCW:C25	0.49	2.57	6	1
4:A:411:17F:H69	3:C:624:PCW:H421	0.49	1.85	9	1
3:C:616:PCW:H412	3:C:622:PCW:H212	0.49	1.83	1	3
2:B:56:LEU:HD23	2:B:58:THR:HG23	0.49	1.83	4	1
3:A:402:PCW:H39	3:B:214:PCW:H262	0.49	1.83	8	1
2:B:149:ARG:HG2	2:B:152:VAL:HB	0.49	1.82	5	1
3:B:211:PCW:H241	3:B:217:PCW:H431	0.49	1.84	9	1
2:B:74:THR:HG21	7:B:237:EWS:NAA	0.49	2.23	7	1
1:A:334:ARG:HD2	1:C:440:GLU:OE2	0.49	2.07	7	1
3:A:408:PCW:H12	3:B:231:PCW:H352	0.49	1.84	3	1
1:C:489:LEU:CD2	3:C:623:PCW:H261	0.49	2.37	3	1
1:C:441:MET:HA	1:C:444:ASP:HB2	0.49	1.84	1	1
1:A:298:LEU:O	1:A:302:GLY:HA3	0.49	2.07	8	2
1:A:224:VAL:O	1:A:228:PHE:HB2	0.49	2.08	1	3
3:C:610:PCW:H431	3:C:614:PCW:H172	0.49	1.84	5	1
3:C:610:PCW:H161	3:C:619:PCW:H172	0.49	1.82	5	1
1:A:341:ASN:ND2	1:C:433:GLU:HA	0.49	2.22	7	2
2:B:66:ALA:HB3	4:B:229:17F:HN1	0.49	1.68	6	1
4:B:223:17F:H1	4:B:223:17F:H4A	0.49	1.85	9	2
3:B:208:PCW:H181	3:B:215:PCW:H411	0.49	1.84	4	1
4:B:228:17F:H72	3:C:622:PCW:H252	0.49	1.85	4	1
3:A:408:PCW:H242	3:C:618:PCW:H483	0.49	1.83	2	1
3:C:617:PCW:H232	4:C:632:17F:H42	0.49	1.83	3	1
3:C:608:PCW:H63	4:C:630:17F:H2	0.49	1.85	1	1
3:B:220:PCW:H382	3:B:220:PCW:H142	0.49	1.85	8	1
3:A:407:PCW:C12	4:B:223:17F:H20A	0.49	2.38	4	2
3:B:231:PCW:H361	3:C:604:PCW:H382	0.49	1.83	5	2
1:A:325:ASP:HA	1:A:328:ARG:HD2	0.49	1.84	5	2
3:A:407:PCW:H132	4:B:223:17F:H20	0.49	1.83	9	1
1:A:332:ALA:O	1:A:336:GLU:HG2	0.49	2.07	7	1
3:A:401:PCW:H452	3:C:616:PCW:H272	0.49	1.84	1	1
2:B:113:LEU:HB3	2:B:141:PHE:HD1	0.49	1.67	1	1
3:B:209:PCW:H132	3:B:216:PCW:H122	0.49	1.84	8	1
3:B:232:PCW:H352	3:B:232:PCW:H122	0.49	1.85	10	1
3:B:204:PCW:H483	3:C:604:PCW:H261	0.49	1.85	5	1
3:B:215:PCW:H451	3:B:221:PCW:H252	0.49	1.85	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:B:225:17F:H71	3:C:615:PCW:H242	0.49	1.85	9	2
3:B:218:PCW:H472	3:C:603:PCW:H471	0.49	1.84	7	1
3:B:219:PCW:H131	4:B:230:17F:H34	0.49	1.85	7	1
3:B:209:PCW:H171	3:B:216:PCW:H181	0.49	1.85	4	1
3:B:231:PCW:H252	3:C:604:PCW:H271	0.49	1.83	4	1
3:B:202:PCW:H471	4:B:226:17F:H10A	0.49	1.84	1	1
1:A:363:LYS:HA	1:A:367:ALA:HB3	0.49	1.84	10	1
3:A:409:PCW:H372	3:C:627:PCW:H361	0.49	1.83	10	1
3:C:621:PCW:H471	4:C:634:17F:H53	0.49	1.85	6	1
1:A:388:SER:HB2	1:C:594:LYS:CE	0.49	2.38	9	1
1:C:523:ASP:HA	1:C:526:ARG:HD2	0.49	1.84	9	1
3:B:205:PCW:H242	3:B:219:PCW:H431	0.49	1.85	4	1
3:C:603:PCW:H441	3:C:625:PCW:H472	0.49	1.83	3	1
1:C:508:ARG:O	1:C:512:ASP:HB2	0.49	2.07	2	3
3:C:611:PCW:H472	4:C:635:17F:H45	0.49	1.85	10	1
3:B:209:PCW:H261	3:C:611:PCW:H482	0.49	1.83	5	1
3:B:201:PCW:H62	3:B:220:PCW:O2P	0.49	2.08	6	1
3:C:606:PCW:H462	3:C:615:PCW:H171	0.49	1.85	6	1
3:B:202:PCW:H20	4:B:228:17F:H12	0.49	1.83	7	1
3:B:212:PCW:H141	4:B:226:17F:H18	0.49	1.84	7	1
4:B:226:17F:H51	4:B:230:17F:H50	0.49	1.85	4	1
1:C:455:TYR:CE2	3:C:601:PCW:H231	0.49	2.34	3	1
3:B:221:PCW:N	7:B:237:EWS:BRA	0.49	3.00	1	1
3:A:403:PCW:H461	3:C:618:PCW:H461	0.48	1.85	5	1
3:C:611:PCW:H361	3:C:617:PCW:H381	0.48	1.85	5	1
1:C:455:TYR:O	1:C:459:PHE:HB2	0.48	2.07	9	3
1:C:502:GLU:HG2	1:C:506:ARG:HE	0.48	1.68	7	2
1:C:534:GLU:HA	1:C:537:LYS:HE3	0.48	1.85	9	1
3:C:616:PCW:H171	3:C:616:PCW:H412	0.48	1.83	9	1
3:C:612:PCW:H12	4:C:634:17F:H6	0.48	1.85	7	1
3:C:605:PCW:H182	3:C:626:PCW:H132	0.48	1.84	7	1
3:B:231:PCW:H362	3:C:604:PCW:H171	0.48	1.84	4	1
3:B:203:PCW:H31	3:B:211:PCW:H321	0.48	1.85	3	1
3:B:214:PCW:H461	3:C:612:PCW:H283	0.48	1.85	1	1
2:B:72:MET:HG2	2:B:78:PHE:CE1	0.48	2.43	1	1
3:B:201:PCW:H72	7:B:237:EWS:BRA	0.48	2.63	8	1
3:A:410:PCW:O2P	3:C:620:PCW:H52	0.48	2.08	8	1
4:A:411:17F:H75	4:C:634:17F:H71	0.48	1.83	8	1
3:C:615:PCW:H132	3:C:622:PCW:H362	0.48	1.85	10	2
1:A:327:LEU:HA	1:A:330:ARG:HG2	0.48	1.84	5	1
3:B:203:PCW:H471	4:B:223:17F:H48	0.48	1.84	5	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:201:PCW:H441	4:B:226:17F:H55	0.48	1.85	5	1
1:C:546:GLU:O	1:C:550:LYS:HD2	0.48	2.08	5	3
1:A:392:GLU:O	1:A:396:LYS:HG2	0.48	2.07	9	2
3:B:231:PCW:H19	3:C:618:PCW:H39	0.48	1.85	10	3
3:B:204:PCW:H81	3:B:220:PCW:H52	0.48	1.85	9	1
4:B:227:17F:O2	3:C:602:PCW:H82	0.48	2.07	9	2
3:B:203:PCW:H141	3:B:207:PCW:H322	0.48	1.84	7	1
3:B:219:PCW:H283	4:C:631:17F:H52	0.48	1.84	1	1
4:B:229:17F:H47	3:B:231:PCW:H212	0.48	1.85	1	1
4:B:225:17F:H72	4:B:228:17F:H68	0.48	1.84	6	1
3:C:626:PCW:H19	3:C:627:PCW:H282	0.48	1.86	6	1
3:B:205:PCW:H171	3:B:207:PCW:H141	0.48	1.85	7	1
2:B:94:HIS:O	2:B:98:GLU:HG2	0.48	2.07	2	2
3:B:209:PCW:H483	3:C:617:PCW:H232	0.48	1.85	10	1
4:C:631:17F:H4	4:C:631:17F:H1A	0.48	1.86	10	1
3:B:201:PCW:C1	7:B:237:EWS:CAN	0.48	2.91	5	1
3:B:203:PCW:H20	3:B:217:PCW:H252	0.48	1.86	5	1
3:A:402:PCW:H361	3:A:402:PCW:H141	0.48	1.86	9	1
3:C:615:PCW:H381	3:C:622:PCW:H371	0.48	1.84	7	1
3:B:209:PCW:H282	3:B:209:PCW:H20	0.48	1.85	4	1
4:B:225:17F:H74	4:B:228:17F:H62	0.48	1.86	2	1
3:C:607:PCW:H481	3:C:611:PCW:H372	0.48	1.84	2	1
1:A:214:PHE:CE1	3:A:404:PCW:H171	0.48	2.43	10	1
1:A:396:LYS:NZ	3:A:407:PCW:C28	0.48	2.70	5	1
3:A:407:PCW:H342	4:B:225:17F:C9	0.48	2.31	6	1
4:B:234:17F:H58	4:B:234:17F:H12A	0.48	1.84	6	1
3:C:621:PCW:H362	3:C:629:PCW:H411	0.48	1.84	6	1
3:C:618:PCW:H182	3:C:620:PCW:H452	0.48	1.84	9	1
3:C:622:PCW:H361	3:C:622:PCW:H152	0.48	1.84	9	1
3:B:219:PCW:H261	3:C:625:PCW:H281	0.48	1.85	7	1
4:A:411:17F:H61	4:C:635:17F:H68	0.48	1.84	7	2
3:A:408:PCW:H172	3:A:408:PCW:H362	0.48	1.84	1	2
3:A:402:PCW:H382	3:B:213:PCW:H372	0.48	1.86	4	1
1:C:488:LYS:CG	3:C:623:PCW:C28	0.48	2.51	4	1
1:C:455:TYR:HH	3:C:601:PCW:C21	0.48	2.15	3	1
3:C:614:PCW:H342	3:C:614:PCW:H132	0.48	1.85	3	1
1:A:322:PRO:O	1:A:326:GLU:HG3	0.48	2.09	1	1
3:B:211:PCW:H442	3:C:621:PCW:H232	0.48	1.86	8	1
1:A:214:PHE:HZ	3:A:404:PCW:H161	0.48	1.62	10	1
3:B:213:PCW:H241	3:C:611:PCW:H422	0.48	1.86	10	1
1:A:365:LYS:CB	1:A:366:PRO:HD3	0.48	2.35	3	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:203:PCW:H482	3:B:231:PCW:H452	0.48	1.86	5	1
1:C:411:THR:O	1:C:415:LEU:HG	0.48	2.09	9	1
3:B:219:PCW:H251	3:C:605:PCW:H271	0.48	1.85	7	1
2:B:65:SER:HB3	2:B:68:ARG:HB3	0.48	1.86	4	1
3:A:408:PCW:H352	3:A:410:PCW:C34	0.48	2.38	3	1
3:B:216:PCW:H172	4:B:224:17F:H61	0.48	1.86	3	1
1:C:479:ALA:O	1:C:483:GLU:HG2	0.48	2.09	1	1
3:B:220:PCW:H232	3:C:604:PCW:H482	0.48	1.85	8	1
3:B:206:PCW:H251	3:C:601:PCW:H39	0.48	1.86	10	1
4:B:224:17F:H77	4:C:631:17F:H73	0.48	1.85	5	1
3:C:607:PCW:H19	3:C:628:PCW:H272	0.48	1.85	9	1
3:A:406:PCW:H12	3:B:206:PCW:H322	0.48	1.84	2	1
1:A:299:SER:HB2	1:A:300:PRO:HD3	0.48	1.84	3	1
3:B:205:PCW:O2P	3:B:210:PCW:H51	0.48	2.09	1	1
4:B:230:17F:H37	3:C:605:PCW:H282	0.48	1.84	1	1
3:C:621:PCW:H431	3:C:621:PCW:H162	0.48	1.85	1	1
1:A:231:ASN:HA	1:A:234:LYS:CE	0.48	2.38	9	2
3:B:219:PCW:H32	3:B:220:PCW:H322	0.48	1.85	7	1
3:C:613:PCW:H12	3:C:613:PCW:H52	0.48	1.84	7	1
2:B:133:LEU:HG	2:B:137:TYR:CE2	0.48	2.44	10	1
3:B:205:PCW:H171	4:B:224:17F:H29	0.48	1.85	10	1
3:C:606:PCW:H211	3:C:615:PCW:H171	0.48	1.86	10	1
1:C:495:LYS:O	1:C:499:LEU:HB2	0.48	2.09	5	7
3:B:219:PCW:C6	7:B:237:EWS:BRA	0.48	3.17	6	1
3:B:209:PCW:H151	4:B:227:17F:H12A	0.48	1.85	9	1
2:B:54:ASP:CB	7:B:237:EWS:BRA	0.48	3.15	2	1
3:B:201:PCW:H39	3:C:626:PCW:H251	0.48	1.86	2	1
3:B:207:PCW:H83	3:B:217:PCW:O1P	0.48	2.09	3	1
3:B:208:PCW:H361	4:B:226:17F:H8A	0.48	1.86	3	1
3:B:208:PCW:C3	3:B:221:PCW:H141	0.48	2.39	1	1
3:B:209:PCW:H152	3:B:216:PCW:H162	0.48	1.85	1	1
3:C:610:PCW:H162	3:C:614:PCW:H171	0.47	1.85	5	1
4:B:234:17F:H35	3:C:625:PCW:H283	0.47	1.84	7	2
4:B:234:17F:H74	4:B:234:17F:H45	0.47	1.85	7	1
3:B:222:PCW:H472	4:C:634:17F:H47	0.47	1.86	4	1
3:B:209:PCW:H442	3:C:617:PCW:H252	0.47	1.85	4	1
3:C:615:PCW:H31	3:C:615:PCW:O31	0.47	2.08	3	2
1:A:355:GLU:HA	1:A:355:GLU:OE1	0.47	2.08	3	1
3:A:401:PCW:H372	3:B:202:PCW:H171	0.47	1.84	3	1
3:B:211:PCW:H472	3:C:621:PCW:H471	0.47	1.85	3	1
3:C:601:PCW:H422	4:C:630:17F:H54	0.47	1.86	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:A:411:17F:H34	3:C:624:PCW:H422	0.47	1.86	6	1
3:B:206:PCW:H172	3:B:208:PCW:H232	0.47	1.86	6	1
3:B:211:PCW:H172	4:B:229:17F:H19	0.47	1.85	6	1
3:B:205:PCW:H272	3:B:220:PCW:H241	0.47	1.86	4	1
3:C:611:PCW:H182	3:C:617:PCW:H361	0.47	1.85	1	1
3:B:210:PCW:C37	4:B:224:17F:H11A	0.47	2.39	8	2
3:C:615:PCW:O31	3:C:615:PCW:H31	0.47	2.08	1	5
3:B:204:PCW:H62	3:B:211:PCW:O2P	0.47	2.08	10	1
3:B:205:PCW:H32	3:B:207:PCW:O1P	0.47	2.10	10	1
3:B:219:PCW:C34	4:B:226:17F:H37	0.47	2.38	10	2
4:B:227:17F:H70	3:C:602:PCW:H422	0.47	1.86	10	1
3:A:401:PCW:H73	2:B:70:GLN:OE1	0.47	2.09	4	1
3:C:616:PCW:H412	3:C:622:PCW:H20	0.47	1.84	2	1
3:C:617:PCW:H252	4:C:635:17F:H41	0.47	1.85	1	1
2:B:67:MET:SD	3:B:211:PCW:H63	0.47	2.49	8	1
4:A:411:17F:H53	3:C:607:PCW:H242	0.47	1.85	2	1
3:B:205:PCW:H31	3:B:205:PCW:H42	0.47	1.84	2	1
3:C:610:PCW:H481	3:C:614:PCW:H282	0.47	1.85	3	1
2:B:79:LEU:CD2	2:B:112:VAL:HB	0.47	2.40	1	1
4:B:225:17F:H40	3:C:615:PCW:H232	0.47	1.87	1	1
2:B:72:MET:HG2	2:B:78:PHE:HE1	0.47	1.69	1	1
3:A:406:PCW:H472	3:A:409:PCW:H242	0.47	1.84	8	3
3:A:410:PCW:H51	3:A:410:PCW:H11	0.47	1.87	2	2
1:A:225:THR:O	1:A:229:TRP:HB2	0.47	2.09	5	3
1:A:316:LEU:HG	1:C:462:LYS:HE3	0.47	1.86	6	2
3:A:401:PCW:H41	3:B:212:PCW:O11	0.47	2.10	7	1
3:B:215:PCW:H282	3:C:609:PCW:H421	0.47	1.87	4	1
3:B:201:PCW:H63	3:B:219:PCW:O2P	0.47	2.09	1	1
2:B:39:SER:HA	2:B:55:ILE:O	0.47	2.09	1	1
3:B:216:PCW:H232	3:C:611:PCW:H451	0.47	1.85	8	1
1:C:421:PRO:O	1:C:425:GLU:HG2	0.47	2.10	10	1
3:C:601:PCW:H381	3:C:602:PCW:H141	0.47	1.84	10	1
3:C:616:PCW:H171	3:C:616:PCW:H351	0.47	1.87	5	1
3:A:408:PCW:H171	3:A:408:PCW:H362	0.47	1.85	9	1
1:A:363:LYS:O	1:A:367:ALA:HB3	0.47	2.10	3	3
3:B:231:PCW:H411	3:C:604:PCW:H421	0.47	1.87	7	1
3:A:403:PCW:H451	3:C:618:PCW:H461	0.47	1.86	4	1
3:B:202:PCW:H322	3:B:212:PCW:H331	0.47	1.87	2	1
4:B:223:17F:H4A	4:B:223:17F:H1	0.47	1.86	2	1
3:B:212:PCW:H361	3:B:212:PCW:H161	0.47	1.86	3	1
3:C:628:PCW:O11	3:C:628:PCW:H52	0.47	2.10	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:212:PCW:H41	3:B:212:PCW:H31	0.47	1.86	1	1
3:A:401:PCW:H382	3:B:212:PCW:H451	0.47	1.86	8	1
3:B:231:PCW:H131	3:C:619:PCW:H11	0.47	1.85	8	1
3:B:231:PCW:H121	3:C:604:PCW:H19	0.47	1.86	8	1
3:B:206:PCW:H221	3:C:601:PCW:H371	0.47	1.85	5	1
1:A:309:ALA:HA	1:A:312:HIS:HB2	0.47	1.85	6	2
3:A:402:PCW:H283	3:B:209:PCW:H272	0.47	1.85	6	1
3:A:405:PCW:H83	3:B:222:PCW:H32	0.47	1.87	6	1
3:B:205:PCW:H161	3:B:207:PCW:H162	0.47	1.86	6	1
3:A:409:PCW:H382	3:C:627:PCW:H382	0.47	1.86	6	1
4:A:411:17F:H55	3:C:617:PCW:H39	0.47	1.85	9	1
3:B:202:PCW:H471	4:B:230:17F:H12A	0.47	1.87	9	1
3:A:406:PCW:H212	3:A:409:PCW:H232	0.47	1.86	7	1
3:C:609:PCW:H172	4:C:632:17F:H20A	0.47	1.85	7	1
3:A:403:PCW:H82	4:B:223:17F:O4	0.47	2.09	2	1
2:B:32:TYR:CD1	5:B:235:GNP:H5'1	0.47	2.45	2	1
1:C:570:ARG:O	1:C:574:LEU:HG	0.47	2.09	2	1
1:A:391:GLU:O	1:A:395:LYS:HB2	0.47	2.09	3	1
3:B:208:PCW:H31	3:B:221:PCW:H152	0.47	1.86	3	1
3:C:625:PCW:H331	3:C:625:PCW:H73	0.47	1.87	3	1
3:A:401:PCW:H39	3:B:202:PCW:H242	0.47	1.87	1	1
2:B:68:ARG:HA	2:B:71:TYR:CD2	0.47	2.44	8	2
3:A:406:PCW:H222	3:A:409:PCW:H241	0.47	1.85	10	1
3:C:614:PCW:C34	3:C:614:PCW:H132	0.47	2.40	6	1
3:C:610:PCW:H362	3:C:614:PCW:H362	0.47	1.87	9	1
3:B:203:PCW:H482	3:B:231:PCW:H451	0.47	1.85	7	2
4:C:630:17F:H71	4:C:632:17F:H53	0.47	1.87	7	1
3:B:232:PCW:C48	4:B:234:17F:H42	0.47	2.40	4	1
3:C:606:PCW:H181	3:C:615:PCW:H122	0.47	1.85	4	1
4:B:224:17F:H29	4:B:230:17F:H59	0.47	1.85	2	1
1:C:534:GLU:O	1:C:538:GLU:HG2	0.47	2.10	3	1
3:C:609:PCW:H172	4:C:632:17F:H18	0.47	1.86	3	1
3:A:407:PCW:C33	4:B:223:17F:H31	0.47	2.38	5	1
4:B:234:17F:H70	3:C:607:PCW:H261	0.47	1.87	9	2
1:C:466:GLU:HA	1:C:469:LEU:HB2	0.47	1.87	9	1
4:B:226:17F:H78	3:C:628:PCW:H451	0.47	1.87	4	1
1:A:255:GLN:HB2	1:A:256:PRO:CD	0.47	2.39	10	3
3:A:407:PCW:C35	4:B:223:17F:H56	0.47	2.38	10	3
4:B:234:17F:H70	3:C:607:PCW:H271	0.47	1.87	3	2
3:B:201:PCW:H341	3:B:219:PCW:H361	0.47	1.87	3	2
3:C:621:PCW:H371	3:C:629:PCW:H412	0.47	1.86	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:205:PCW:H452	3:B:207:PCW:H241	0.47	1.85	4	1
3:C:617:PCW:C22	4:C:632:17F:H42	0.47	2.40	4	1
3:B:232:PCW:H40	3:C:619:PCW:H452	0.47	1.87	4	1
3:C:617:PCW:H222	4:C:635:17F:H35	0.47	1.86	4	1
3:B:202:PCW:H452	4:B:226:17F:H12A	0.47	1.86	1	1
3:A:410:PCW:H332	4:C:633:17F:C12	0.46	2.36	8	1
4:C:635:17F:H9A	4:C:635:17F:H18	0.46	1.86	10	1
3:C:606:PCW:H181	3:C:615:PCW:H341	0.46	1.87	5	1
3:B:202:PCW:H481	4:B:226:17F:H20	0.46	1.85	6	1
4:B:227:17F:H30	4:B:227:17F:H41	0.46	1.87	6	1
3:C:629:PCW:H231	4:C:634:17F:H40	0.46	1.86	6	1
3:B:213:PCW:H462	4:C:635:17F:H70	0.46	1.87	7	1
4:B:224:17F:H44	4:B:234:17F:H43	0.46	1.86	2	1
2:B:6:LEU:HD23	2:B:159:LEU:HD23	0.46	1.87	3	1
3:B:201:PCW:H232	3:C:613:PCW:H471	0.46	1.87	3	1
3:B:210:PCW:H352	4:B:224:17F:H31	0.46	1.87	1	1
3:C:609:PCW:H211	4:C:630:17F:H37	0.46	1.86	1	1
3:C:606:PCW:H62	4:C:633:17F:O5	0.46	2.10	1	1
3:A:406:PCW:H182	3:A:409:PCW:H252	0.46	1.87	8	1
2:B:113:LEU:O	2:B:141:PHE:HA	0.46	2.10	8	1
2:B:118:CYS:HB3	2:B:143:GLU:HG2	0.46	1.86	10	1
3:B:201:PCW:H151	4:B:225:17F:O8	0.46	2.11	9	1
3:B:205:PCW:H251	3:B:220:PCW:H181	0.46	1.87	2	1
1:A:299:SER:HB2	1:A:300:PRO:CD	0.46	2.39	3	1
3:A:401:PCW:H62	3:B:212:PCW:H11	0.46	1.86	5	1
4:A:411:17F:H53	3:C:607:PCW:H221	0.46	1.85	6	1
4:B:225:17F:H71	3:C:615:PCW:H222	0.46	1.86	6	1
3:C:611:PCW:C37	4:C:635:17F:H34	0.46	2.40	6	1
3:B:209:PCW:H61	4:B:224:17F:O1	0.46	2.10	9	1
3:C:613:PCW:H411	3:C:622:PCW:H441	0.46	1.87	4	1
3:B:207:PCW:H341	3:B:220:PCW:H372	0.46	1.86	2	1
3:C:608:PCW:H63	4:C:630:17F:HN1A	0.46	1.70	2	1
3:B:231:PCW:H461	3:C:604:PCW:H271	0.46	1.87	3	1
3:A:405:PCW:H261	3:C:621:PCW:H412	0.46	1.87	5	1
3:B:219:PCW:H432	3:B:219:PCW:H381	0.46	1.86	5	1
3:C:621:PCW:H42	3:C:629:PCW:H41	0.46	1.88	5	1
3:B:205:PCW:H282	3:B:220:PCW:H241	0.46	1.86	6	1
3:B:207:PCW:H142	3:B:232:PCW:H281	0.46	1.85	6	1
1:A:234:LYS:HE3	1:C:539:ASN:OD1	0.46	2.11	2	3
1:A:358:SER:O	1:A:362:GLU:HG3	0.46	2.09	9	2
3:B:212:PCW:H261	4:B:226:17F:H59	0.46	1.87	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:409:PCW:H483	3:B:208:PCW:H471	0.46	1.86	4	1
1:A:293:GLU:O	1:A:297:LYS:HB2	0.46	2.09	2	1
3:C:626:PCW:H131	3:C:626:PCW:H39	0.46	1.86	3	1
3:C:619:PCW:H39	3:C:629:PCW:H232	0.46	1.87	3	2
3:B:203:PCW:H442	3:B:204:PCW:H39	0.46	1.86	8	1
3:C:606:PCW:H262	3:C:615:PCW:H181	0.46	1.86	8	1
3:A:401:PCW:H483	3:C:613:PCW:H271	0.46	1.86	10	1
3:A:404:PCW:O2P	3:B:211:PCW:H141	0.46	2.10	9	1
3:B:215:PCW:H2	3:B:215:PCW:H52	0.46	1.86	9	1
1:C:422:VAL:HA	1:C:425:GLU:OE2	0.46	2.11	4	1
4:B:226:17F:H49	3:C:626:PCW:H241	0.46	1.86	3	1
3:B:232:PCW:H411	3:B:232:PCW:H372	0.46	1.86	3	1
1:C:470:TYR:CE1	4:C:632:17F:C42	0.46	2.98	1	1
3:B:216:PCW:H221	3:C:611:PCW:H452	0.46	1.86	5	1
1:A:203:LEU:O	1:A:207:TRP:HB2	0.46	2.10	6	2
1:A:330:ARG:O	1:A:334:ARG:HG2	0.46	2.11	6	2
3:B:217:PCW:H283	3:B:218:PCW:H262	0.46	1.87	6	1
3:B:221:PCW:H81	4:B:224:17F:O2	0.46	2.10	6	1
4:B:234:17F:H41	4:B:234:17F:H69	0.46	1.87	9	1
3:B:218:PCW:H261	3:C:625:PCW:H40	0.46	1.87	7	1
3:B:212:PCW:H152	3:B:212:PCW:H341	0.46	1.88	10	2
1:C:563:LYS:HB2	1:C:564:PRO:CD	0.46	2.41	5	2
3:C:627:PCW:H351	3:C:628:PCW:C12	0.46	2.41	5	1
3:C:607:PCW:H371	4:C:631:17F:H6	0.46	1.87	7	1
1:C:456:LEU:O	1:C:460:GLN:HB2	0.46	2.10	2	1
3:B:232:PCW:H122	3:C:625:PCW:C17	0.46	2.41	3	1
1:C:530:ALA:O	1:C:534:GLU:HG3	0.46	2.11	3	2
1:A:308:ARG:HD3	1:C:469:LEU:CD1	0.46	2.38	6	1
4:B:234:17F:H66	4:C:631:17F:H63	0.46	1.88	6	1
3:C:619:PCW:H271	3:C:621:PCW:H242	0.46	1.88	4	1
3:C:613:PCW:H382	3:C:613:PCW:H171	0.46	1.88	2	1
4:B:226:17F:H10	4:B:230:17F:H10A	0.46	1.86	3	1
3:A:410:PCW:H382	4:C:633:17F:H36	0.46	1.87	1	1
3:A:405:PCW:H83	3:B:222:PCW:H11	0.46	1.87	1	1
2:B:41:ARG:HD3	2:B:54:ASP:OD2	0.46	2.11	4	2
3:C:623:PCW:H131	4:C:635:17F:H18A	0.46	1.88	10	1
1:C:499:LEU:O	1:C:503:MET:HB2	0.46	2.11	9	1
2:B:5:LYS:HE3	3:B:219:PCW:H72	0.46	1.87	7	1
3:A:410:PCW:H121	4:C:633:17F:H11A	0.46	1.86	7	1
3:B:221:PCW:H12	3:B:221:PCW:H52	0.46	1.87	3	1
3:C:628:PCW:O11	3:C:628:PCW:H83	0.46	2.11	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:213:PCW:H421	3:B:216:PCW:H272	0.46	1.87	5	1
4:B:234:17F:H43	4:B:234:17F:H73	0.46	1.87	6	1
3:C:626:PCW:H31	3:C:627:PCW:H161	0.46	1.87	1	3
3:A:408:PCW:H431	3:C:604:PCW:H281	0.46	1.86	7	1
3:B:203:PCW:H162	3:B:207:PCW:H351	0.46	1.87	4	1
3:C:611:PCW:H482	4:C:635:17F:H45	0.46	1.88	4	1
3:A:406:PCW:H172	4:B:226:17F:H59	0.46	1.87	1	1
2:B:131:GLN:HG2	2:B:141:PHE:CD2	0.45	2.45	8	1
3:C:602:PCW:H283	4:C:630:17F:H52	0.45	1.88	8	1
3:C:616:PCW:H482	3:C:616:PCW:H222	0.45	1.87	8	1
1:A:387:LEU:O	1:A:391:GLU:HG3	0.45	2.09	10	2
3:B:206:PCW:H461	3:B:208:PCW:H271	0.45	1.87	5	1
4:B:226:17F:H43	4:B:230:17F:H42	0.45	1.87	6	1
3:A:408:PCW:C33	3:A:410:PCW:H341	0.45	2.41	9	1
3:B:210:PCW:H121	4:B:224:17F:H32	0.45	1.87	9	2
3:B:219:PCW:H222	4:B:224:17F:H42	0.45	1.87	4	1
3:C:611:PCW:H172	3:C:617:PCW:H331	0.45	1.88	2	1
3:B:231:PCW:H382	3:C:604:PCW:H432	0.45	1.87	3	1
3:B:213:PCW:H242	3:C:611:PCW:H422	0.45	1.88	1	1
3:B:210:PCW:H422	3:B:210:PCW:H242	0.45	1.88	8	1
3:B:203:PCW:P	7:B:237:EWS:CAK	0.45	3.04	8	1
3:C:611:PCW:H282	3:C:617:PCW:H452	0.45	1.87	9	2
3:B:211:PCW:H221	3:B:217:PCW:H412	0.45	1.87	10	1
3:C:605:PCW:H31	3:C:605:PCW:O1P	0.45	2.11	6	1
4:B:227:17F:H39	4:B:227:17F:H30	0.45	1.89	9	1
3:C:628:PCW:H83	3:C:628:PCW:O11	0.45	2.11	9	1
3:B:203:PCW:H271	4:C:634:17F:H55	0.45	1.87	2	1
1:A:363:LYS:HG2	1:C:411:THR:HG22	0.45	1.88	3	1
1:C:460:GLN:O	1:C:464:GLN:HG3	0.45	2.11	3	1
1:A:335:LEU:O	1:A:339:LYS:HB2	0.45	2.12	10	1
1:C:561:LYS:O	1:C:565:ALA:HB3	0.45	2.11	5	1
3:B:209:PCW:H131	4:B:227:17F:H10A	0.45	1.89	9	1
1:C:488:LYS:CD	3:C:623:PCW:H272	0.45	2.29	9	1
3:A:406:PCW:H331	3:B:208:PCW:H352	0.45	1.87	7	1
3:B:205:PCW:H221	3:B:233:PCW:H283	0.45	1.87	4	1
1:A:268:GLU:OE1	1:C:506:ARG:HD3	0.45	2.12	3	1
4:A:411:17F:H32	4:A:411:17F:H8A	0.45	1.87	6	1
2:B:71:TYR:HB2	7:B:237:EWS:OAB	0.45	2.11	6	2
3:B:204:PCW:H251	3:C:618:PCW:H483	0.45	1.87	6	1
3:B:216:PCW:H451	4:C:634:17F:H74	0.45	1.87	6	1
3:B:201:PCW:H212	4:B:228:17F:H34	0.45	1.88	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:407:PCW:H342	4:B:225:17F:H11A	0.45	1.88	7	1
1:A:264:LYS:CE	1:C:509:ALA:HB1	0.45	2.41	4	1
3:A:403:PCW:H332	3:B:204:PCW:C3	0.45	2.39	8	1
3:C:613:PCW:H171	3:C:613:PCW:H381	0.45	1.89	5	1
3:B:207:PCW:H442	3:C:621:PCW:H222	0.45	1.89	6	1
3:B:205:PCW:H172	3:B:220:PCW:H352	0.45	1.89	9	1
1:A:345:ARG:O	1:A:349:TYR:HB2	0.45	2.12	4	1
3:A:410:PCW:H412	3:A:410:PCW:H371	0.45	1.87	4	1
3:C:621:PCW:H361	3:C:629:PCW:H221	0.45	1.87	4	1
3:B:209:PCW:H251	4:C:635:17F:H38	0.45	1.87	4	1
3:A:406:PCW:H372	3:B:208:PCW:H39	0.45	1.89	2	2
3:C:611:PCW:H63	4:C:635:17F:HN1	0.45	1.71	2	1
3:B:211:PCW:H171	4:B:229:17F:H59	0.45	1.87	1	1
3:C:615:PCW:H151	3:C:615:PCW:C38	0.45	2.41	5	1
4:B:228:17F:H55	3:C:615:PCW:H483	0.45	1.89	5	1
3:A:408:PCW:H422	3:B:204:PCW:H461	0.45	1.87	7	1
4:B:224:17F:H51	4:B:230:17F:H74	0.45	1.87	7	1
3:C:619:PCW:H282	3:C:621:PCW:H252	0.45	1.88	7	1
1:A:308:ARG:HG3	1:C:465:GLU:HB3	0.45	1.88	4	1
1:A:393:TYR:OH	3:A:403:PCW:C28	0.45	2.64	2	1
3:C:626:PCW:H19	3:C:627:PCW:H271	0.45	1.87	2	1
2:B:77:GLY:HA3	2:B:163:ILE:HD11	0.45	1.89	3	1
1:C:549:ALA:O	1:C:553:GLU:HG3	0.45	2.12	7	2
3:B:202:PCW:H271	4:B:228:17F:H66	0.45	1.89	10	1
3:B:219:PCW:H482	4:B:223:17F:H49	0.45	1.89	6	2
3:A:401:PCW:H41	3:B:212:PCW:H2	0.45	1.88	6	1
3:B:201:PCW:H172	4:B:225:17F:H60	0.45	1.88	7	1
3:B:231:PCW:H441	3:C:604:PCW:H261	0.45	1.87	7	1
4:A:411:17F:H54	3:C:607:PCW:H241	0.45	1.88	4	1
4:B:229:17F:H50	3:B:231:PCW:H181	0.45	1.89	4	1
3:C:607:PCW:H20	4:C:631:17F:H44	0.45	1.88	3	1
1:C:550:LYS:O	1:C:554:HIS:HB2	0.45	2.12	1	1
3:B:219:PCW:H483	3:B:233:PCW:H241	0.45	1.89	10	1
3:C:611:PCW:H282	3:C:617:PCW:H422	0.45	1.88	10	1
3:B:203:PCW:H483	3:B:220:PCW:H262	0.45	1.88	5	1
1:A:310:ARG:O	1:A:314:ASP:HB3	0.45	2.11	6	1
3:C:607:PCW:C24	4:C:631:17F:H39	0.45	2.41	6	1
3:B:201:PCW:H381	3:B:219:PCW:H441	0.45	1.88	7	1
2:B:118:CYS:SG	2:B:145:SER:HB2	0.45	2.52	4	2
3:B:219:PCW:H283	3:C:625:PCW:H252	0.45	1.87	4	1
3:C:609:PCW:H211	4:C:630:17F:H58	0.45	1.89	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:C:631:17F:H57	4:C:631:17F:H37	0.45	1.87	2	1
3:B:205:PCW:H272	3:B:233:PCW:H262	0.45	1.89	8	1
1:A:247:LEU:HA	1:A:250:VAL:HG12	0.45	1.87	10	1
3:B:205:PCW:H212	3:B:220:PCW:H412	0.45	1.88	10	1
3:B:202:PCW:H432	4:B:226:17F:H43	0.45	1.89	10	2
3:B:216:PCW:H73	4:B:224:17F:N1	0.45	2.24	6	1
3:B:221:PCW:H121	3:B:221:PCW:H341	0.45	1.87	9	1
1:A:202:LYS:HE3	1:C:576:VAL:HG21	0.45	1.89	7	1
3:A:406:PCW:H371	4:B:226:17F:H60	0.45	1.89	7	1
3:B:201:PCW:H342	3:B:219:PCW:H361	0.45	1.88	2	1
3:A:410:PCW:H461	3:C:620:PCW:H283	0.45	1.88	2	1
3:C:615:PCW:H132	3:C:622:PCW:C38	0.45	2.40	3	1
3:A:401:PCW:H51	3:B:212:PCW:H2	0.45	1.88	8	1
3:B:201:PCW:H242	3:B:212:PCW:H422	0.45	1.88	8	1
3:B:215:PCW:H471	3:C:608:PCW:H482	0.45	1.89	5	1
4:A:411:17F:H63	3:B:216:PCW:H251	0.45	1.87	6	1
1:C:415:LEU:HA	1:C:418:GLN:NE2	0.45	2.27	6	1
4:C:630:17F:H35	4:C:630:17F:H42	0.45	1.89	4	1
3:B:203:PCW:H171	3:B:217:PCW:H132	0.45	1.89	2	1
3:C:621:PCW:O3	3:C:629:PCW:H171	0.45	2.12	3	1
3:B:201:PCW:C22	4:B:225:17F:H65	0.44	2.37	8	1
3:B:203:PCW:O11	4:B:229:17F:H18A	0.44	2.11	8	1
1:C:585:LEU:O	1:C:589:GLU:HB2	0.44	2.12	10	1
3:A:402:PCW:H341	3:A:402:PCW:H122	0.44	1.89	5	1
4:A:411:17F:H61	4:C:635:17F:H72	0.44	1.89	5	1
1:A:376:LEU:O	1:A:380:GLU:HG3	0.44	2.12	9	1
2:B:56:LEU:HD12	7:B:237:EWS:CAQ	0.44	2.42	7	1
3:B:202:PCW:H122	4:B:228:17F:C9	0.44	2.41	2	1
3:B:204:PCW:H482	3:B:231:PCW:H422	0.44	1.89	3	1
3:C:609:PCW:H483	4:C:630:17F:H55	0.44	1.89	3	1
3:A:401:PCW:H411	3:B:212:PCW:H472	0.44	1.89	1	1
3:B:201:PCW:H442	4:B:230:17F:H77	0.44	1.89	8	1
3:B:203:PCW:H341	3:B:220:PCW:H132	0.44	1.88	10	1
3:C:603:PCW:H471	3:C:625:PCW:H452	0.44	1.88	10	1
4:B:223:17F:H50	3:C:626:PCW:H232	0.44	1.90	10	1
3:B:205:PCW:H40	3:B:216:PCW:H372	0.44	1.88	5	1
4:B:226:17F:H49	3:C:613:PCW:H462	0.44	1.88	6	1
4:B:227:17F:O2	3:C:602:PCW:H81	0.44	2.13	6	1
3:B:207:PCW:H341	3:B:232:PCW:H282	0.44	1.89	9	1
3:A:405:PCW:H162	3:B:222:PCW:H372	0.44	1.88	7	1
4:B:234:17F:C1Z	4:B:234:17F:H10A	0.44	2.42	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:268:GLU:O	1:A:272:TYR:HB2	0.44	2.13	2	1
2:B:68:ARG:HA	2:B:71:TYR:CZ	0.44	2.47	2	1
3:C:629:PCW:O31	3:C:629:PCW:H41	0.44	2.12	2	1
3:A:403:PCW:H251	3:A:407:PCW:H231	0.44	1.88	3	1
3:B:202:PCW:O31	3:B:202:PCW:H52	0.44	2.12	3	1
3:A:407:PCW:H442	3:C:606:PCW:H271	0.44	1.89	8	1
3:C:607:PCW:H321	3:C:609:PCW:C8	0.44	2.43	8	1
1:A:249:GLU:O	1:A:253:LYS:HB2	0.44	2.12	9	1
3:A:409:PCW:H432	3:C:605:PCW:H20	0.44	1.89	3	1
3:B:212:PCW:H421	3:B:212:PCW:H20	0.44	1.88	3	1
3:B:209:PCW:H31	4:B:227:17F:H10A	0.44	1.88	5	1
1:A:292:HIS:O	1:A:296:GLU:HG2	0.44	2.13	6	1
1:A:359:THR:O	1:A:363:LYS:HG3	0.44	2.12	6	2
3:B:203:PCW:H442	3:B:231:PCW:H451	0.44	1.89	6	1
3:C:607:PCW:H451	3:C:611:PCW:H321	0.44	1.88	4	1
3:B:201:PCW:H483	3:C:605:PCW:H222	0.44	1.88	2	1
3:B:220:PCW:H272	3:B:233:PCW:H212	0.44	1.89	2	1
3:A:407:PCW:H442	4:B:223:17F:H71	0.44	1.89	1	1
3:C:613:PCW:H151	3:C:626:PCW:H432	0.44	1.89	10	1
3:C:606:PCW:H283	3:C:615:PCW:H182	0.44	1.90	5	1
3:B:203:PCW:H41	4:B:229:17F:O1	0.44	2.13	2	1
3:C:611:PCW:H262	3:C:617:PCW:H441	0.44	1.87	3	1
3:B:218:PCW:H442	3:B:222:PCW:H441	0.44	1.90	8	2
3:A:401:PCW:H471	3:C:613:PCW:H232	0.44	1.90	8	1
3:B:203:PCW:H483	3:B:231:PCW:H432	0.44	1.89	10	1
3:B:201:PCW:H82	3:B:219:PCW:C1	0.44	2.43	5	1
2:B:62:GLU:HB3	2:B:68:ARG:NH1	0.44	2.28	5	1
3:B:207:PCW:H472	4:B:229:17F:H51	0.44	1.88	6	1
3:B:201:PCW:H39	3:C:626:PCW:H242	0.44	1.88	7	1
3:B:212:PCW:H422	3:C:613:PCW:H482	0.44	1.90	7	1
3:B:203:PCW:H381	3:B:204:PCW:H142	0.44	1.88	4	1
3:C:614:PCW:H83	3:C:629:PCW:H32	0.44	1.88	2	1
1:A:242:GLU:OE1	1:C:528:ARG:HB3	0.44	2.12	3	1
3:C:602:PCW:H452	4:C:630:17F:H40	0.44	1.89	1	1
1:A:202:LYS:O	1:A:206:ASN:HB2	0.44	2.13	8	1
3:C:607:PCW:H241	3:C:611:PCW:H283	0.44	1.88	10	1
4:B:229:17F:H43	3:C:621:PCW:H252	0.44	1.89	6	1
3:B:203:PCW:H481	3:B:233:PCW:C48	0.44	2.43	7	1
3:B:201:PCW:H422	3:B:219:PCW:H472	0.44	1.88	2	1
3:B:209:PCW:H161	3:B:213:PCW:H361	0.44	1.90	1	1
3:A:409:PCW:H371	3:C:627:PCW:C34	0.44	2.42	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:205:PCW:H272	3:B:219:PCW:H482	0.44	1.88	5	1
4:B:234:17F:H64	4:B:234:17F:C23	0.44	2.42	5	1
3:C:613:PCW:C38	3:C:613:PCW:H171	0.44	2.43	5	2
3:C:608:PCW:C3	3:C:628:PCW:H331	0.44	2.41	6	1
4:B:234:17F:C1Y	3:C:625:PCW:H172	0.44	2.43	9	1
3:B:205:PCW:H252	3:B:220:PCW:H421	0.44	1.87	7	1
3:C:626:PCW:H161	3:C:627:PCW:H252	0.44	1.89	7	1
3:B:213:PCW:H20	3:C:611:PCW:H441	0.44	1.90	2	1
1:C:448:VAL:O	1:C:452:VAL:HB	0.44	2.12	3	1
3:B:209:PCW:H182	3:C:611:PCW:H471	0.44	1.89	1	1
3:B:208:PCW:H452	4:B:226:17F:H61	0.44	1.88	8	1
3:C:609:PCW:H83	3:C:611:PCW:H142	0.44	1.89	10	1
3:B:202:PCW:H452	3:B:212:PCW:H162	0.44	1.88	5	1
1:C:533:LEU:O	1:C:537:LYS:HG3	0.44	2.13	5	1
3:C:618:PCW:H121	3:C:620:PCW:H412	0.44	1.89	2	2
3:B:205:PCW:H181	3:B:219:PCW:H122	0.44	1.89	7	1
3:A:407:PCW:H63	4:B:228:17F:N1	0.44	2.27	7	1
3:A:401:PCW:H472	3:C:626:PCW:H483	0.44	1.89	7	1
4:B:223:17F:P1	4:B:223:17F:HN1	0.44	2.36	4	1
3:B:219:PCW:H261	3:C:625:PCW:H282	0.44	1.90	1	1
3:B:210:PCW:H482	4:B:227:17F:H41	0.43	1.89	8	1
3:B:212:PCW:H171	3:B:212:PCW:H362	0.43	1.90	10	1
2:B:53:LEU:HD12	2:B:55:ILE:HD11	0.43	1.90	10	1
3:B:209:PCW:H20	3:C:611:PCW:H471	0.43	1.90	10	1
3:A:410:PCW:H352	4:C:633:17F:C2X	0.43	2.40	5	2
3:B:207:PCW:H182	3:B:232:PCW:C28	0.43	2.41	5	1
2:B:72:MET:HB3	2:B:103:VAL:HG21	0.43	1.91	5	1
1:C:517:HIS:O	1:C:521:TYR:HB2	0.43	2.13	5	2
3:A:408:PCW:H151	3:C:604:PCW:H221	0.43	1.91	6	1
3:C:618:PCW:H122	3:C:620:PCW:C38	0.43	2.43	6	2
1:A:271:LEU:O	1:A:275:LYS:HG2	0.43	2.13	1	2
3:A:406:PCW:H362	3:A:406:PCW:H152	0.43	1.87	3	1
3:B:209:PCW:H151	3:B:213:PCW:H171	0.43	1.90	8	1
2:B:8:VAL:HG12	2:B:16:LYS:HD2	0.43	1.88	6	1
3:C:602:PCW:H231	4:C:630:17F:H49	0.43	1.89	6	1
1:C:563:LYS:CB	1:C:564:PRO:HD3	0.43	2.39	9	2
1:A:337:ALA:O	1:A:341:ASN:HB2	0.43	2.12	3	1
3:C:613:PCW:H332	3:C:626:PCW:H411	0.43	1.90	3	1
3:C:613:PCW:H62	3:C:627:PCW:C7	0.43	2.43	1	1
3:B:219:PCW:H11	3:B:220:PCW:O1P	0.43	2.14	8	1
3:A:406:PCW:H211	3:A:409:PCW:H282	0.43	1.91	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:412:PHE:HA	1:C:415:LEU:HD12	0.43	1.90	5	1
2:B:114:VAL:HG12	2:B:142:ILE:HB	0.43	1.91	9	1
3:A:408:PCW:H341	3:B:231:PCW:C39	0.43	2.44	7	1
3:B:202:PCW:H451	4:B:230:17F:H10A	0.43	1.90	7	1
3:A:402:PCW:H331	3:A:402:PCW:H83	0.43	1.90	4	1
3:B:212:PCW:O11	4:B:226:17F:H6	0.43	2.14	4	1
1:C:550:LYS:HA	1:C:553:GLU:OE1	0.43	2.13	4	1
3:C:611:PCW:H63	4:C:635:17F:N1	0.43	2.28	2	1
3:A:406:PCW:H11	4:B:226:17F:O1	0.43	2.13	3	1
3:B:201:PCW:H251	3:C:613:PCW:H482	0.43	1.89	1	1
3:B:210:PCW:H73	7:B:237:EWS:CAN	0.43	2.43	10	1
3:C:606:PCW:H282	3:C:615:PCW:H211	0.43	1.90	10	1
3:B:233:PCW:H351	3:C:626:PCW:C12	0.43	2.42	5	1
3:B:205:PCW:H251	3:B:220:PCW:H171	0.43	1.91	6	2
3:B:211:PCW:C34	4:B:229:17F:H11	0.43	2.44	9	1
3:B:231:PCW:H441	3:C:604:PCW:H452	0.43	1.89	9	1
3:B:210:PCW:H481	3:C:617:PCW:H461	0.43	1.88	9	1
1:C:488:LYS:HZ2	3:C:623:PCW:H281	0.43	1.68	9	1
3:A:403:PCW:H142	3:A:403:PCW:H382	0.43	1.89	7	1
3:B:212:PCW:C42	3:C:613:PCW:H482	0.43	2.43	7	1
3:B:205:PCW:H422	4:B:224:17F:H70	0.43	1.91	2	1
2:B:54:ASP:OD1	3:B:208:PCW:H73	0.43	2.12	2	1
1:A:280:ARG:O	1:A:284:GLN:HB2	0.43	2.13	3	1
3:B:208:PCW:H152	3:B:215:PCW:H372	0.43	1.90	1	1
3:B:215:PCW:H252	3:C:609:PCW:H432	0.43	1.90	8	1
1:C:473:LYS:O	1:C:477:LEU:HB2	0.43	2.12	8	1
3:C:601:PCW:H362	3:C:602:PCW:H121	0.43	1.89	8	1
1:A:393:TYR:HD1	1:A:396:LYS:NZ	0.43	2.03	5	1
3:C:619:PCW:H362	3:C:621:PCW:H142	0.43	1.90	5	1
1:A:229:TRP:O	1:A:233:GLU:HG3	0.43	2.13	6	1
3:B:213:PCW:H39	3:B:214:PCW:H221	0.43	1.90	7	1
3:C:618:PCW:H211	3:C:620:PCW:H471	0.43	1.90	7	1
3:B:202:PCW:H141	4:B:228:17F:H9A	0.43	1.89	4	1
3:C:606:PCW:H283	3:C:615:PCW:H181	0.43	1.89	4	1
1:C:587:ALA:O	1:C:591:TYR:HB2	0.43	2.14	8	1
3:B:231:PCW:H471	3:C:604:PCW:H283	0.43	1.91	8	1
1:A:273:ARG:HA	1:A:276:VAL:HG12	0.43	1.91	10	1
4:A:411:17F:H31	4:A:411:17F:H8A	0.43	1.90	10	1
3:B:207:PCW:C16	3:B:232:PCW:H281	0.43	2.41	10	1
4:B:234:17F:H34	3:C:625:PCW:H162	0.43	1.90	10	1
3:B:232:PCW:H481	4:B:234:17F:H41	0.43	1.90	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:607:PCW:H262	4:C:631:17F:C23	0.43	2.43	5	1
3:C:622:PCW:H361	3:C:622:PCW:H142	0.43	1.90	6	1
3:B:211:PCW:H151	4:B:229:17F:H8	0.43	1.91	9	1
3:B:205:PCW:H162	3:B:219:PCW:H122	0.43	1.91	9	1
3:A:405:PCW:H481	3:C:629:PCW:H481	0.43	1.89	9	1
3:A:403:PCW:O3P	3:B:204:PCW:H12	0.43	2.12	2	1
4:B:224:17F:H42	4:B:230:17F:H66	0.43	1.91	3	1
1:C:577:LEU:O	1:C:581:LYS:HB2	0.43	2.14	3	1
4:B:225:17F:H44	3:C:615:PCW:H20	0.43	1.90	1	1
3:B:207:PCW:H212	4:C:631:17F:H78	0.43	1.90	8	1
4:B:234:17F:O8	3:C:605:PCW:H342	0.43	2.12	10	1
3:B:215:PCW:H241	3:C:609:PCW:H472	0.43	1.89	10	1
2:B:171:SER:HA	3:B:218:PCW:H82	0.43	1.90	5	1
3:C:624:PCW:H341	4:C:635:17F:H76	0.43	1.91	5	1
3:B:207:PCW:H282	3:B:218:PCW:H212	0.43	1.90	6	1
3:B:201:PCW:H51	3:B:220:PCW:O2P	0.43	2.13	4	1
1:A:301:LEU:HD13	1:C:473:LYS:HG3	0.43	1.91	3	1
3:B:213:PCW:H212	4:B:227:17F:H42	0.43	1.90	3	1
3:A:408:PCW:H351	3:A:410:PCW:C35	0.43	2.43	1	1
3:A:406:PCW:H12	4:B:226:17F:P1	0.43	2.53	10	2
4:B:229:17F:H20A	4:B:229:17F:H8	0.43	1.90	10	1
3:C:626:PCW:H421	3:C:627:PCW:H20	0.43	1.90	5	1
3:C:617:PCW:H221	4:C:635:17F:H36	0.43	1.90	6	1
3:B:211:PCW:H132	4:B:229:17F:C6	0.43	2.42	9	1
3:C:602:PCW:H211	4:C:630:17F:H49	0.43	1.91	9	1
1:C:522:SER:O	1:C:526:ARG:HG3	0.43	2.13	7	1
1:C:561:LYS:HE3	1:C:561:LYS:HA	0.43	1.90	7	1
3:A:406:PCW:H162	3:A:409:PCW:H252	0.43	1.89	4	1
3:B:208:PCW:C32	7:B:237:EWS:CAO	0.43	2.90	4	1
1:A:393:TYR:CZ	3:A:403:PCW:H281	0.43	2.48	2	1
3:B:213:PCW:H482	3:C:611:PCW:H483	0.43	1.91	2	1
1:A:266:GLN:O	1:A:270:GLU:HG3	0.43	2.13	1	1
3:B:205:PCW:H251	3:B:220:PCW:H431	0.43	1.91	8	1
2:B:20:THR:O	2:B:24:ILE:HG12	0.43	2.13	8	1
3:B:212:PCW:H121	4:B:226:17F:O9	0.43	2.14	10	2
3:B:210:PCW:H352	4:B:224:17F:C19	0.43	2.40	6	1
3:C:606:PCW:H2	3:C:606:PCW:O1P	0.43	2.14	6	1
3:A:408:PCW:H382	3:A:408:PCW:H172	0.43	1.91	4	1
2:B:68:ARG:HA	2:B:71:TYR:CE1	0.43	2.48	4	1
3:A:406:PCW:H52	3:B:206:PCW:O2P	0.43	2.14	2	1
3:B:211:PCW:H482	3:C:621:PCW:H451	0.43	1.91	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:219:PCW:H241	3:B:233:PCW:H262	0.43	1.91	2	1
3:C:601:PCW:H372	3:C:602:PCW:H141	0.43	1.91	3	1
1:A:248:GLU:O	1:A:252:ALA:HB3	0.43	2.14	8	1
2:B:171:SER:HA	3:B:218:PCW:H63	0.43	1.90	5	1
3:B:221:PCW:H83	4:B:224:17F:H6	0.43	1.91	5	1
3:A:406:PCW:H182	3:A:409:PCW:H232	0.43	1.90	9	1
3:B:219:PCW:H322	4:B:226:17F:H37	0.43	1.91	9	1
3:B:220:PCW:H232	3:C:604:PCW:H483	0.43	1.91	7	1
3:A:408:PCW:H332	3:A:410:PCW:C34	0.43	2.43	4	1
3:B:212:PCW:H362	3:B:212:PCW:H171	0.42	1.91	8	1
4:A:411:17F:C1Y	4:A:411:17F:H8A	0.42	2.44	10	1
3:B:203:PCW:H462	3:B:205:PCW:H282	0.42	1.91	6	1
1:C:498:PRO:O	1:C:502:GLU:HB2	0.42	2.14	9	1
3:B:207:PCW:H341	3:B:220:PCW:H39	0.42	1.91	7	1
1:A:362:GLU:HB3	1:C:414:LYS:HD3	0.42	1.90	4	1
3:A:406:PCW:H172	4:B:226:17F:H58	0.42	1.90	5	1
3:B:219:PCW:H222	4:B:230:17F:H73	0.42	1.90	5	1
3:B:211:PCW:H282	3:C:619:PCW:H251	0.42	1.90	6	1
3:B:219:PCW:H411	3:B:220:PCW:H172	0.42	1.92	9	1
3:A:402:PCW:C35	3:B:213:PCW:H322	0.42	2.44	7	1
1:C:578:GLU:O	1:C:582:VAL:HG23	0.42	2.14	7	1
3:A:404:PCW:H222	3:C:610:PCW:H261	0.42	1.91	4	1
4:B:234:17F:H65	4:C:631:17F:H77	0.42	1.92	4	1
1:C:422:VAL:O	1:C:426:PHE:HB2	0.42	2.14	4	1
2:B:112:VAL:HG23	2:B:159:LEU:HD13	0.42	1.90	3	1
1:C:508:ARG:O	1:C:512:ASP:HB3	0.42	2.14	3	1
3:C:613:PCW:H152	3:C:613:PCW:H331	0.42	1.91	8	1
3:B:210:PCW:H42	7:B:237:EWS:CAJ	0.42	2.44	10	1
3:C:601:PCW:H422	4:C:630:17F:C30	0.42	2.44	10	1
3:B:202:PCW:H211	3:B:202:PCW:H242	0.42	1.67	5	1
4:B:234:17F:H57	3:C:625:PCW:H161	0.42	1.91	5	1
3:B:208:PCW:O2P	3:B:208:PCW:H2	0.42	2.14	9	1
3:B:210:PCW:C33	4:B:224:17F:H5	0.42	2.42	7	1
1:C:464:GLN:O	1:C:468:GLU:HB2	0.42	2.13	7	1
3:B:209:PCW:H152	3:B:216:PCW:H142	0.42	1.91	4	1
3:C:607:PCW:H331	3:C:611:PCW:H131	0.42	1.91	4	1
3:B:203:PCW:H121	3:B:207:PCW:H322	0.42	1.91	3	1
1:C:576:VAL:O	1:C:580:PHE:HB2	0.42	2.14	3	1
3:B:217:PCW:H262	3:C:619:PCW:H472	0.42	1.91	3	1
4:B:224:17F:H46	4:B:230:17F:H70	0.42	1.90	1	1
2:B:74:THR:HB	3:B:201:PCW:H71	0.42	1.90	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:81:VAL:HA	2:B:114:VAL:HB	0.42	1.91	1	1
3:B:220:PCW:H251	3:C:604:PCW:H461	0.42	1.90	8	1
3:C:607:PCW:H411	4:C:631:17F:H9A	0.42	1.90	5	2
3:C:626:PCW:H40	3:C:627:PCW:H241	0.42	1.92	5	1
3:C:610:PCW:H411	3:C:614:PCW:H181	0.42	1.90	6	1
4:B:225:17F:H76	3:C:606:PCW:H483	0.42	1.91	9	1
3:B:209:PCW:H272	3:C:611:PCW:H483	0.42	1.91	9	1
3:B:203:PCW:H321	3:B:211:PCW:H341	0.42	1.91	7	1
3:B:219:PCW:H252	3:C:605:PCW:H271	0.42	1.90	4	1
3:B:221:PCW:H2	4:B:230:17F:H19	0.42	1.91	4	1
3:C:603:PCW:H451	3:C:625:PCW:H472	0.42	1.92	4	1
3:B:214:PCW:H421	4:C:634:17F:H76	0.42	1.91	2	1
3:B:219:PCW:H232	3:C:605:PCW:H271	0.42	1.90	2	1
2:B:7:VAL:HB	2:B:78:PHE:HD1	0.42	1.73	10	2
1:A:224:VAL:HG22	1:C:550:LYS:HD3	0.42	1.90	10	1
1:C:413:SER:O	1:C:417:GLU:HG3	0.42	2.15	5	1
3:B:216:PCW:C24	4:C:635:17F:H65	0.42	2.45	5	1
4:B:234:17F:H72	4:C:631:17F:H72	0.42	1.89	1	2
1:C:581:LYS:O	1:C:585:LEU:HG	0.42	2.14	9	2
1:A:253:LYS:HE2	1:A:257:TYR:OH	0.42	2.15	9	1
3:B:233:PCW:H61	3:C:604:PCW:H332	0.42	1.90	4	1
3:C:619:PCW:H342	3:C:621:PCW:H141	0.42	1.91	4	1
4:B:225:17F:H63	3:C:626:PCW:C26	0.42	2.39	2	1
3:A:406:PCW:H2	4:B:226:17F:O1	0.42	2.15	1	1
1:A:393:TYR:HE1	3:A:407:PCW:C27	0.42	1.61	8	1
3:B:202:PCW:H321	3:B:212:PCW:H83	0.42	1.90	10	1
3:B:203:PCW:N	3:B:203:PCW:O2P	0.42	2.52	5	1
2:B:22:GLN:CG	2:B:149:ARG:HG3	0.42	2.44	6	1
3:B:205:PCW:H451	3:B:207:PCW:H283	0.42	1.90	6	1
3:A:406:PCW:H151	3:A:409:PCW:H252	0.42	1.91	9	1
3:A:408:PCW:H441	3:B:204:PCW:H451	0.42	1.92	9	1
3:A:410:PCW:H251	4:C:633:17F:C30	0.42	2.45	7	1
3:B:211:PCW:H172	4:B:229:17F:H33	0.42	1.92	7	1
3:A:403:PCW:H31	3:A:403:PCW:O1P	0.42	2.14	4	1
3:B:208:PCW:H161	3:B:215:PCW:H372	0.42	1.91	4	1
3:B:202:PCW:C15	3:B:212:PCW:H412	0.42	2.44	2	1
4:B:223:17F:H50	3:C:626:PCW:H231	0.42	1.91	5	1
3:B:220:PCW:H422	3:B:232:PCW:H251	0.42	1.91	9	1
1:C:431:GLU:O	1:C:435:GLU:HG3	0.42	2.14	9	1
3:B:232:PCW:H412	3:C:619:PCW:H441	0.42	1.90	7	1
1:A:348:GLU:O	1:A:352:LYS:HG3	0.42	2.13	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:601:PCW:H441	3:C:602:PCW:H211	0.42	1.92	4	1
1:A:357:LEU:HA	1:A:360:LEU:HB2	0.42	1.91	3	1
1:C:455:TYR:CE2	3:C:601:PCW:C23	0.42	3.00	3	1
3:B:219:PCW:H262	4:C:631:17F:H54	0.42	1.90	1	1
3:B:203:PCW:H412	3:B:204:PCW:H371	0.42	1.92	10	1
1:A:312:HIS:HA	1:C:462:LYS:HD3	0.42	1.91	6	1
4:B:234:17F:H33	3:C:625:PCW:C19	0.42	2.44	6	1
3:A:408:PCW:H441	3:B:204:PCW:H432	0.42	1.91	7	1
3:B:231:PCW:H483	3:B:231:PCW:H232	0.42	1.90	4	1
3:B:231:PCW:H461	3:C:604:PCW:C46	0.42	2.45	4	1
3:B:203:PCW:H481	4:B:223:17F:H48	0.42	1.91	3	1
1:A:307:ASP:O	1:A:310:ARG:HB2	0.42	2.14	10	1
2:B:81:VAL:HG12	2:B:114:VAL:HB	0.42	1.91	5	1
3:B:212:PCW:H332	3:B:212:PCW:H131	0.42	1.91	9	1
3:C:610:PCW:H121	3:C:614:PCW:H212	0.42	1.89	4	1
3:B:208:PCW:C34	7:B:237:EWS:CLA	0.42	3.05	2	1
3:C:626:PCW:H40	3:C:627:PCW:H231	0.42	1.90	2	1
3:C:601:PCW:H262	3:C:602:PCW:H282	0.42	1.91	3	1
2:B:74:THR:CB	3:B:201:PCW:H71	0.42	2.45	1	1
3:B:231:PCW:C12	3:C:604:PCW:H19	0.42	2.45	8	1
3:C:606:PCW:H211	3:C:615:PCW:H161	0.42	1.92	8	1
1:C:502:GLU:O	1:C:506:ARG:HG3	0.42	2.15	10	3
3:C:620:PCW:H41	3:C:620:PCW:O11	0.42	2.15	10	1
3:B:201:PCW:H141	4:B:225:17F:H56	0.42	1.91	5	1
3:B:211:PCW:H20	3:B:217:PCW:H361	0.42	1.92	5	1
3:B:207:PCW:H442	3:C:619:PCW:H452	0.42	1.91	9	1
4:B:226:17F:H12	4:B:230:17F:H8	0.42	1.92	7	1
2:B:34:PRO:HA	5:B:235:GNP:O3G	0.42	2.15	7	2
3:B:202:PCW:H222	4:B:228:17F:H59	0.42	1.92	3	1
3:A:402:PCW:H211	3:B:214:PCW:H232	0.42	1.91	1	1
3:B:205:PCW:H272	3:B:220:PCW:H261	0.42	1.90	1	1
3:B:202:PCW:H321	3:B:212:PCW:C8	0.41	2.45	10	1
3:B:232:PCW:H142	3:C:625:PCW:H181	0.41	1.92	10	1
3:C:621:PCW:H122	3:C:629:PCW:C18	0.41	2.44	6	1
1:A:376:LEU:CB	1:A:377:PRO:HD3	0.41	2.44	9	1
3:C:606:PCW:H471	3:C:615:PCW:H182	0.41	1.91	9	1
3:C:618:PCW:H182	3:C:620:PCW:H451	0.41	1.92	7	1
3:B:222:PCW:H19	3:C:603:PCW:H142	0.41	1.92	4	1
3:B:202:PCW:H52	3:B:202:PCW:O31	0.41	2.14	2	1
3:B:203:PCW:C40	3:B:204:PCW:H151	0.41	2.45	2	1
3:B:231:PCW:H442	3:B:233:PCW:H483	0.41	1.92	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:616:PCW:H181	3:C:616:PCW:H411	0.41	1.92	2	1
3:B:232:PCW:H241	3:C:619:PCW:H482	0.41	1.92	3	1
2:B:71:TYR:HA	7:B:237:EWS:CAD	0.41	2.42	1	1
4:B:229:17F:H55	3:B:231:PCW:H162	0.41	1.90	8	1
3:A:401:PCW:H41	3:B:212:PCW:H11	0.41	1.93	10	1
3:B:216:PCW:H171	4:B:224:17F:H61	0.41	1.92	6	1
1:A:308:ARG:HG3	1:C:469:LEU:CD1	0.41	2.41	7	1
3:B:203:PCW:H151	4:B:229:17F:H20	0.41	1.92	7	1
2:B:32:TYR:HA	5:B:235:GNP:H5'1	0.41	1.91	7	1
3:C:610:PCW:H372	3:C:614:PCW:H241	0.41	1.92	7	1
3:A:407:PCW:H121	4:B:223:17F:C31	0.41	2.45	4	1
3:C:617:PCW:H221	4:C:632:17F:H42	0.41	1.91	4	1
3:B:208:PCW:H342	7:B:237:EWS:CLA	0.41	2.52	2	1
3:B:202:PCW:H72	4:B:228:17F:H9A	0.41	1.92	3	1
3:C:601:PCW:H451	3:C:601:PCW:H152	0.41	1.92	3	1
4:B:223:17F:H35	4:B:225:17F:H19	0.41	1.90	8	1
3:B:209:PCW:H172	3:B:213:PCW:H151	0.41	1.93	10	1
1:A:334:ARG:HD3	1:C:440:GLU:OE1	0.41	2.15	10	1
3:B:201:PCW:H282	3:C:613:PCW:H221	0.41	1.92	5	1
2:B:37:GLU:OE2	3:B:220:PCW:H83	0.41	2.15	6	1
3:B:218:PCW:H412	3:B:222:PCW:H421	0.41	1.91	7	1
3:C:610:PCW:H431	3:C:614:PCW:H181	0.41	1.91	7	1
1:A:264:LYS:HE3	1:C:509:ALA:HB1	0.41	1.92	4	1
4:B:224:17F:H41	4:B:230:17F:H66	0.41	1.90	4	1
3:B:233:PCW:H351	3:C:626:PCW:H331	0.41	1.90	4	1
2:B:21:ILE:HG23	2:B:25:GLN:HE21	0.41	1.75	4	1
1:A:253:LYS:C	1:A:256:PRO:HD2	0.41	2.36	3	1
3:B:205:PCW:H262	3:B:220:PCW:H421	0.41	1.92	3	1
1:A:268:GLU:OE2	1:C:510:HIS:NE2	0.41	2.53	3	1
4:B:229:17F:H51	3:B:231:PCW:H181	0.41	1.92	1	1
3:B:219:PCW:O2	3:B:219:PCW:H352	0.41	2.16	8	1
3:C:611:PCW:C44	4:C:635:17F:H43	0.41	2.46	8	1
2:B:5:LYS:HD2	2:B:74:THR:O	0.41	2.16	10	1
3:B:232:PCW:H31	3:C:604:PCW:H122	0.41	1.92	5	1
4:B:234:17F:C31	3:C:625:PCW:H141	0.41	2.42	5	1
1:C:521:TYR:HA	1:C:524:GLU:OE1	0.41	2.16	6	1
3:C:617:PCW:H171	4:C:635:17F:H12	0.41	1.90	6	1
3:B:203:PCW:H161	3:B:207:PCW:H372	0.41	1.91	9	1
3:B:216:PCW:H221	3:C:611:PCW:H421	0.41	1.92	9	1
3:B:231:PCW:H461	3:C:604:PCW:H462	0.41	1.92	4	1
3:B:211:PCW:H81	4:B:229:17F:O2	0.41	2.16	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:402:PCW:H381	3:B:213:PCW:H351	0.41	1.91	1	1
4:B:234:17F:H9A	4:B:234:17F:C20	0.41	2.41	5	1
1:A:330:ARG:NH2	1:C:447:GLU:HB2	0.41	2.27	5	1
3:A:402:PCW:H142	3:B:214:PCW:H172	0.41	1.93	7	1
3:A:406:PCW:H362	3:A:406:PCW:H122	0.41	1.92	4	1
1:A:393:TYR:HE1	3:A:407:PCW:H272	0.41	1.69	2	1
3:B:208:PCW:H131	3:B:215:PCW:H122	0.41	1.92	2	1
2:B:86:ASN:OD1	2:B:88:LYS:HB3	0.41	2.15	2	1
4:B:228:17F:C1	4:B:228:17F:H4	0.41	2.43	3	1
3:B:233:PCW:C34	3:C:626:PCW:H331	0.41	2.45	3	1
3:A:401:PCW:H442	3:C:613:PCW:H251	0.41	1.92	3	1
3:B:217:PCW:H251	3:C:619:PCW:H442	0.41	1.92	3	1
3:B:207:PCW:H83	3:B:217:PCW:O2P	0.41	2.15	1	1
3:B:220:PCW:H452	3:B:233:PCW:H251	0.41	1.92	1	1
3:C:608:PCW:H172	3:C:608:PCW:H142	0.41	1.71	10	1
1:C:427:TRP:HA	1:C:427:TRP:HE3	0.41	1.74	6	1
3:B:203:PCW:H371	3:B:220:PCW:H181	0.41	1.92	9	1
3:B:201:PCW:H232	3:C:613:PCW:H482	0.41	1.93	4	1
3:B:212:PCW:H422	3:C:613:PCW:H483	0.41	1.90	4	1
3:C:618:PCW:H122	3:C:620:PCW:H361	0.41	1.92	4	1
3:A:403:PCW:H282	3:A:407:PCW:H252	0.41	1.91	2	1
1:C:469:LEU:O	1:C:473:LYS:HE2	0.41	2.16	8	1
2:B:3:GLU:HA	2:B:52:LEU:O	0.41	2.15	10	1
3:A:407:PCW:C13	4:B:223:17F:H33	0.41	2.44	6	1
3:B:201:PCW:H422	3:C:626:PCW:H231	0.41	1.91	6	1
2:B:117:LYS:HB3	2:B:120:LEU:HD12	0.41	1.92	9	1
3:B:204:PCW:H482	3:C:604:PCW:H282	0.41	1.93	7	1
4:B:224:17F:H46	4:B:230:17F:H71	0.41	1.93	7	1
1:C:521:TYR:CE2	3:C:603:PCW:H281	0.41	2.51	4	1
1:A:375:LEU:O	1:A:379:LEU:HB2	0.41	2.16	2	1
1:A:341:ASN:O	1:A:345:ARG:HG3	0.41	2.16	3	1
3:A:408:PCW:C1	3:B:231:PCW:H321	0.41	2.44	3	1
3:B:217:PCW:H252	3:B:218:PCW:H282	0.41	1.92	1	1
1:C:574:LEU:HB2	1:C:575:PRO:CD	0.41	2.46	8	2
3:C:607:PCW:H482	3:C:611:PCW:H371	0.41	1.92	8	1
3:B:214:PCW:H40	4:C:634:17F:H76	0.41	1.93	8	1
1:C:574:LEU:HB2	1:C:575:PRO:HD3	0.41	1.93	7	2
2:B:54:ASP:HB3	7:B:237:EWS:CAS	0.41	2.45	5	1
3:B:209:PCW:H73	4:B:224:17F:O1	0.41	2.15	6	1
3:B:213:PCW:H212	4:B:227:17F:H40	0.41	1.92	6	1
2:B:3:GLU:OE2	3:B:205:PCW:H71	0.41	2.16	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:67:MET:SD	3:B:204:PCW:H63	0.41	2.56	9	1
3:B:233:PCW:H39	3:C:606:PCW:H372	0.41	1.92	9	1
3:B:203:PCW:H182	3:B:211:PCW:H40	0.41	1.91	4	1
1:A:388:SER:O	1:A:392:GLU:HG2	0.41	2.16	2	1
3:B:210:PCW:H442	3:B:221:PCW:H381	0.41	1.93	2	1
3:C:614:PCW:H222	3:C:614:PCW:H261	0.41	1.91	2	1
3:B:203:PCW:H421	3:B:204:PCW:H19	0.41	1.91	1	1
1:A:281:ALA:O	1:A:285:GLU:HG2	0.41	2.16	8	1
3:B:202:PCW:C33	4:B:228:17F:H4A	0.41	2.40	8	1
3:B:203:PCW:O1P	3:B:211:PCW:H12	0.41	2.16	10	1
3:B:231:PCW:H382	3:C:604:PCW:H421	0.41	1.93	10	1
1:A:264:LYS:O	1:A:268:GLU:HG3	0.41	2.14	5	1
3:B:201:PCW:H152	4:B:225:17F:H8	0.41	1.92	5	1
4:B:234:17F:H65	4:B:234:17F:H59	0.41	1.93	5	1
2:B:99:GLN:O	2:B:103:VAL:HG13	0.41	2.16	6	1
3:C:615:PCW:H162	3:C:615:PCW:H422	0.41	1.93	6	1
2:B:17:SER:HA	2:B:20:THR:OG1	0.41	2.16	9	1
2:B:84:ILE:HG12	2:B:118:CYS:HA	0.41	1.91	9	1
3:C:611:PCW:H152	3:C:617:PCW:H342	0.41	1.92	9	1
1:A:228:PHE:O	1:A:232:LEU:HG	0.41	2.16	7	1
1:A:376:LEU:HB2	1:A:377:PRO:CD	0.41	2.46	7	1
3:C:607:PCW:C43	3:C:611:PCW:H11	0.41	2.46	7	1
3:C:613:PCW:H19	3:C:622:PCW:H432	0.41	1.91	7	1
1:A:348:GLU:HB3	1:A:352:LYS:HE2	0.41	1.91	4	1
4:B:226:17F:H73	3:C:628:PCW:H451	0.41	1.93	2	1
2:B:5:LYS:NZ	4:B:230:17F:H1	0.41	2.31	2	1
4:B:234:17F:H48	4:B:234:17F:H76	0.41	1.93	2	1
3:C:607:PCW:O1P	3:C:609:PCW:H73	0.41	2.16	2	1
2:B:156:PHE:O	2:B:160:VAL:HG23	0.41	2.16	3	1
3:A:408:PCW:C34	3:B:231:PCW:H39	0.41	2.40	3	1
3:A:410:PCW:H132	4:C:633:17F:H8A	0.41	1.93	3	1
3:B:201:PCW:C41	3:B:219:PCW:H20	0.41	2.46	3	1
3:B:219:PCW:H52	3:B:220:PCW:O1P	0.41	2.15	1	1
3:A:406:PCW:H171	3:A:406:PCW:H141	0.41	1.81	1	1
3:B:208:PCW:H451	3:C:627:PCW:H483	0.41	1.93	1	1
3:C:602:PCW:H482	3:C:609:PCW:H241	0.41	1.92	1	1
3:C:609:PCW:H451	4:C:630:17F:H53	0.41	1.92	8	1
3:A:409:PCW:H171	3:C:616:PCW:H251	0.41	1.93	10	1
3:C:624:PCW:H211	4:C:634:17F:H31	0.41	1.91	10	1
3:B:217:PCW:H283	3:B:218:PCW:H251	0.41	1.93	5	1
2:B:7:VAL:HG22	2:B:56:LEU:HB3	0.41	1.92	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:254:VAL:HA	1:A:257:TYR:HB2	0.41	1.93	6	1
3:A:406:PCW:H231	3:A:409:PCW:H262	0.41	1.93	9	1
2:B:34:PRO:HA	5:B:235:GNP:O1G	0.41	2.16	9	1
3:C:622:PCW:H151	3:C:622:PCW:H381	0.41	1.92	9	1
3:A:408:PCW:H322	3:B:231:PCW:H371	0.41	1.93	7	1
3:C:618:PCW:H122	3:C:620:PCW:H412	0.41	1.93	7	1
3:C:625:PCW:H322	3:C:625:PCW:H352	0.41	1.72	3	1
3:B:209:PCW:H441	4:B:227:17F:H72	0.41	1.92	1	1
1:A:330:ARG:HH22	1:C:448:VAL:HG23	0.40	1.76	8	1
4:B:227:17F:H73	3:C:602:PCW:H371	0.40	1.92	8	1
3:B:202:PCW:H412	4:B:226:17F:H40	0.40	1.93	10	1
4:B:234:17F:H73	4:C:631:17F:H72	0.40	1.93	10	1
4:C:630:17F:H42	4:C:630:17F:H35	0.40	1.91	10	1
1:C:561:LYS:HA	1:C:565:ALA:CB	0.40	2.45	6	1
3:A:408:PCW:H242	3:C:618:PCW:H461	0.40	1.92	9	1
3:C:601:PCW:H351	3:C:602:PCW:H152	0.40	1.93	7	1
3:A:408:PCW:H322	3:B:231:PCW:C37	0.40	2.46	4	1
3:B:205:PCW:H51	3:B:210:PCW:H341	0.40	1.92	4	1
1:A:253:LYS:O	1:A:256:PRO:HD2	0.40	2.17	3	1
3:B:202:PCW:H282	4:B:228:17F:H66	0.40	1.93	1	1
3:A:403:PCW:C33	3:B:204:PCW:H31	0.40	2.43	8	1
3:C:601:PCW:H452	3:C:602:PCW:H262	0.40	1.93	8	1
3:B:201:PCW:H283	3:C:613:PCW:H241	0.40	1.93	6	1
3:B:231:PCW:H482	3:B:231:PCW:H261	0.40	1.94	9	1
3:C:605:PCW:H351	3:C:605:PCW:H122	0.40	1.93	9	1
3:B:202:PCW:H241	4:B:228:17F:H62	0.40	1.92	7	1
3:A:407:PCW:H322	3:A:407:PCW:H351	0.40	1.48	4	1
2:B:158:THR:O	2:B:162:GLU:HG2	0.40	2.16	4	1
3:C:610:PCW:H361	3:C:614:PCW:H132	0.40	1.92	4	1
3:B:217:PCW:H251	3:C:619:PCW:H441	0.40	1.92	2	1
3:B:218:PCW:H441	3:B:218:PCW:H241	0.40	1.93	2	1
1:C:491:GLU:HB3	1:C:495:LYS:HZ2	0.40	1.76	2	1
3:A:410:PCW:H331	4:C:633:17F:C21	0.40	2.33	1	1
1:A:279:LEU:HD22	1:C:495:LYS:HE3	0.40	1.93	10	1
3:B:220:PCW:H483	4:B:234:17F:H38	0.40	1.93	6	1
3:A:402:PCW:H39	3:B:213:PCW:H372	0.40	1.92	7	1
4:B:230:17F:H19	4:B:230:17F:H33	0.40	1.71	7	1
4:B:224:17F:H44	4:B:234:17F:H47	0.40	1.93	4	1
1:A:260:ASP:O	1:A:264:LYS:HD3	0.40	2.16	2	1
3:A:406:PCW:H421	4:B:226:17F:H71	0.40	1.94	2	1
3:C:611:PCW:H172	3:C:617:PCW:C33	0.40	2.46	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:B:234:17F:H35	3:C:625:PCW:H282	0.40	1.92	2	1
2:B:9:VAL:HG21	2:B:100:ILE:HD11	0.40	1.93	3	1
3:C:601:PCW:H411	3:C:602:PCW:H181	0.40	1.93	3	1
3:C:613:PCW:H62	3:C:627:PCW:H71	0.40	1.92	1	1
1:A:338:LEU:O	1:A:342:GLY:HA3	0.40	2.15	8	1
1:A:233:GLU:O	1:A:237:GLU:HB2	0.40	2.15	10	1
1:A:380:GLU:O	1:A:384:VAL:HG23	0.40	2.16	5	1
3:B:201:PCW:H251	4:B:228:17F:C36	0.40	2.38	5	1
3:B:221:PCW:C3	4:B:230:17F:H4A	0.40	2.46	5	1
3:B:232:PCW:H452	3:C:619:PCW:H481	0.40	1.92	6	1
3:C:626:PCW:H371	3:C:627:PCW:H182	0.40	1.93	6	1
2:B:22:GLN:NE2	2:B:28:PHE:HB2	0.40	2.30	7	1
2:B:7:VAL:CG2	2:B:75:GLY:HA3	0.40	2.46	7	1
1:C:535:ALA:O	1:C:539:ASN:HB2	0.40	2.16	7	1
3:A:402:PCW:H362	3:B:214:PCW:C16	0.40	2.46	4	1
1:C:428:ASP:O	1:C:431:GLU:HB2	0.40	2.17	4	1
3:C:602:PCW:H271	4:C:630:17F:H47	0.40	1.93	4	1
3:B:203:PCW:H222	3:B:211:PCW:H441	0.40	1.92	2	1
3:B:201:PCW:H382	4:B:226:17F:H42	0.40	1.92	3	1
3:B:211:PCW:H241	3:B:217:PCW:H432	0.40	1.92	10	1
3:B:233:PCW:H231	3:C:625:PCW:H251	0.40	1.94	5	1
1:A:332:ALA:O	1:A:336:GLU:HG3	0.40	2.16	6	1
3:B:203:PCW:H262	3:B:217:PCW:H442	0.40	1.94	6	1
3:B:207:PCW:H272	3:B:218:PCW:H252	0.40	1.92	6	1
3:B:218:PCW:H272	3:C:629:PCW:H262	0.40	1.92	6	1
1:C:463:TRP:O	1:C:467:MET:HB2	0.40	2.17	9	1
2:B:15:GLY:O	2:B:19:LEU:HG	0.40	2.15	7	1
3:B:202:PCW:H332	4:B:228:17F:O1	0.40	2.17	7	1
3:B:212:PCW:H182	3:B:212:PCW:H152	0.40	1.71	7	1
3:A:402:PCW:H342	3:B:213:PCW:H322	0.40	1.93	2	1
3:B:218:PCW:H483	3:C:624:PCW:H283	0.40	1.92	2	1
3:B:217:PCW:H232	3:B:218:PCW:H241	0.40	1.93	3	1
3:B:221:PCW:H71	4:B:227:17F:O5	0.40	2.16	3	1
3:B:209:PCW:H332	3:B:213:PCW:H122	0.40	1.93	1	1

## 5.2 Torsion angles ⓘ

### 5.2.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR

entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	195/200 (98%)	191±2 (98±1%)	4±1 (2±1%)	1±1 (0±0%)	32	76
1	C	195/200 (98%)	191±2 (98±1%)	4±2 (2±1%)	1±1 (0±0%)	44	80
2	B	171/187 (91%)	162±3 (95±2%)	8±3 (5±2%)	0±0 (0±0%)	54	85
All	All	5610/5870 (96%)	5439 (97%)	155 (3%)	16 (0%)	44	80

All 4 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	365	LYS	8
1	C	563	LYS	5
2	B	73	ARG	2
1	A	366	PRO	1

### 5.2.2 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	172/175 (98%)	155±2 (90±1%)	17±2 (10±1%)	11	56
1	C	172/175 (98%)	156±2 (90±1%)	16±2 (10±1%)	12	58
2	B	152/166 (92%)	138±2 (91±2%)	14±2 (9±2%)	12	59
All	All	4960/5160 (96%)	4480 (90%)	480 (10%)	12	57

All 187 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	254	VAL	10
1	C	550	LYS	9
1	A	312	HIS	8
1	C	516	THR	8
1	A	272	TYR	8
2	B	20	THR	8

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Mol	Chain	Res	Type	Models (Total)
1	A	228	PHE	7
2	B	92	ASP	7
1	A	235	GLU	7
1	C	459	PHE	6
2	B	71	TYR	6
1	A	293	GLU	6
2	B	2	THR	6
1	C	480	GLU	6
2	B	124	THR	6
2	B	69	ASP	6
1	C	548	HIS	5
1	A	299	SER	5
1	A	325	ASP	5
2	B	51	CYS	5
1	A	394	THR	5
1	A	370	ASP	5
1	C	568	ASP	5
1	A	246	ASP	5
2	B	148	THR	4
1	C	412	PHE	4
1	C	561	LYS	4
1	A	264	LYS	4
1	A	396	LYS	4
2	B	56	LEU	4
2	B	170	MET	4
1	C	455	TYR	4
2	B	107	GLU	4
1	C	487	GLN	4
2	B	16	LYS	4
1	C	444	ASP	4
1	A	292	HIS	4
1	A	207	TRP	4
1	A	214	PHE	4
1	C	405	TRP	4
1	A	289	GLN	4
2	B	7	VAL	4
1	C	505	ASP	4
1	C	463	TRP	4
1	A	319	HIS	3
2	B	153	ASP	3
1	C	594	LYS	3
2	B	17	SER	3

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Mol	Chain	Res	Type	Models (Total)
1	A	361	SER	3
2	B	74	THR	3
2	B	58	THR	3
1	A	213	THR	3
2	B	154	ASP	3
1	A	215	SER	3
2	B	39	SER	3
1	A	382	PHE	3
1	C	413	SER	3
1	A	318	THR	3
1	C	552	THR	3
1	C	592	THR	3
1	C	409	THR	3
2	B	33	ASP	3
1	C	580	PHE	3
1	C	418	GLN	3
1	C	427	TRP	3
1	C	591	TYR	3
2	B	122	SER	3
1	A	356	HIS	3
1	A	229	TRP	3
2	B	29	VAL	3
2	B	35	THR	3
1	A	209	SER	2
1	C	490	HIS	2
1	A	296	GLU	2
1	C	447	GLU	2
1	C	532	ARG	2
2	B	149	ARG	2
1	C	546	GLU	2
1	C	554	HIS	2
1	A	261	PHE	2
1	C	425	GLU	2
1	A	257	TYR	2
1	A	349	TYR	2
1	C	556	SER	2
2	B	50	THR	2
1	C	467	MET	2
1	C	448	VAL	2
1	A	392	GLU	2
1	C	596	ASN	2
2	B	47	ASP	2

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Mol	Chain	Res	Type	Models (Total)
1	C	410	SER	2
1	A	381	SER	2
1	A	212	SER	2
1	A	220	GLN	2
2	B	126	ASP	2
1	A	360	LEU	2
2	B	105	ASP	2
1	C	583	SER	2
1	A	391	GLU	2
1	C	576	VAL	2
1	C	494	GLU	2
1	C	466	GLU	2
2	B	5	LYS	2
1	C	559	SER	2
2	B	3	GLU	2
1	C	446	GLU	2
2	B	87	THR	2
2	B	132	ASP	2
1	A	354	THR	2
1	A	393	TYR	2
1	C	523	ASP	2
2	B	85	ASN	2
1	C	473	LYS	2
1	A	244	SER	2
1	C	482	GLN	2
1	A	205	ASP	2
2	B	127	THR	2
2	B	106	SER	2
1	A	202	LYS	2
1	C	407	SER	2
2	B	25	GLN	1
1	C	468	GLU	1
2	B	53	LEU	1
1	A	274	GLN	1
2	B	54	ASP	1
2	B	136	SER	1
1	A	345	ARG	1
2	B	41	ARG	1
1	A	224	VAL	1
2	B	89	SER	1
2	B	135	ARG	1
2	B	14	VAL	1

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Mol	Chain	Res	Type	Models (Total)
1	C	579	SER	1
1	A	359	THR	1
1	C	457	ASP	1
1	A	248	GLU	1
1	C	426	PHE	1
1	C	415	LEU	1
1	C	521	TYR	1
2	B	57	ASP	1
1	C	403	ASP	1
1	C	404	ASN	1
2	B	73	ARG	1
1	A	385	SER	1
1	C	464	GLN	1
1	C	495	LYS	1
1	C	439	GLN	1
1	C	569	LEU	1
1	A	265	TRP	1
2	B	38	ASP	1
1	A	279	LEU	1
1	A	334	ARG	1
1	C	497	SER	1
1	C	527	GLN	1
1	A	242	GLU	1
1	A	263	LYS	1
1	A	386	PHE	1
2	B	43	GLN	1
2	B	97	ARG	1
1	C	488	LYS	1
1	A	308	ARG	1
2	B	23	LEU	1
1	C	434	THR	1
1	C	442	SER	1
1	C	557	THR	1
1	A	350	HIS	1
1	A	314	ASP	1
1	A	378	VAL	1
1	A	241	GLN	1
1	A	275	LYS	1
1	C	501	GLU	1
2	B	102	ARG	1
1	A	379	LEU	1
2	B	79	LEU	1

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Mol	Chain	Res	Type	Models (Total)
2	B	68	ARG	1
1	A	211	THR	1
1	C	483	GLU	1
1	A	303	GLU	1
1	A	227	GLU	1
1	C	478	ARG	1
2	B	114	VAL	1
1	C	406	ASP	1
1	C	433	GLU	1
2	B	131	GLN	1
1	C	458	ASP	1
2	B	26	ASN	1
1	A	206	ASN	1

### 5.2.3 RNA ⓘ

There are no RNA molecules in this entry.

### 5.3 Non-standard residues in protein, DNA, RNA chains ⓘ

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

### 5.4 Carbohydrates ⓘ

There are no carbohydrates in this entry.

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### 5.5 Other polymers ⓘ

There are no such molecules in this entry.

### 5.6 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

## 6 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 3% for the well-defined parts and 3% for the entire structure.

### 6.1 Chemical shift list 1

File name: input\_cs.cif

Chemical shift list name: *resonance\_list\_nmrstar\_50\_51.txt*

#### 6.1.1 Bookkeeping [i](#)

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	268
Number of shifts mapped to atoms	268
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

#### 6.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	0	—	None (insufficient data)
$^{13}\text{C}_\beta$	0	—	None (insufficient data)
$^{13}\text{C}'$	0	—	None (insufficient data)
$^{15}\text{N}$	84	$-0.46 \pm 0.64$	None needed ( $< 0.5$ ppm)

#### 6.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 3%, i.e. 204 atoms were assigned a chemical shift out of a possible 7233. 3 out of 107 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	154/2779 (6%)	77/1108 (7%)	0/1126 (0%)	77/545 (14%)
Sidechain	50/4008 (1%)	25/2349 (1%)	25/1453 (2%)	0/206 (0%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	0/446 (0%)	0/244 (0%)	0/194 (0%)	0/8 (0%)
Overall	204/7233 (3%)	102/3701 (3%)	25/2773 (1%)	77/759 (10%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 3%, i.e. 217 atoms were assigned a chemical shift out of a possible 7487. 3 out of 109 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	167/2869 (6%)	83/1144 (7%)	0/1162 (0%)	84/563 (15%)
Sidechain	50/4172 (1%)	25/2448 (1%)	25/1508 (2%)	0/216 (0%)
Aromatic	0/446 (0%)	0/244 (0%)	0/194 (0%)	0/8 (0%)
Overall	217/7487 (3%)	108/3836 (3%)	25/2864 (1%)	84/787 (11%)

#### 6.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

#### 6.1.5 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 B:

