



Full wwPDB NMR Structure Validation Report ⓘ

Jun 7, 2020 – 09:56 am BST

PDB ID : 6CC9
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 : 2018-02-06

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

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

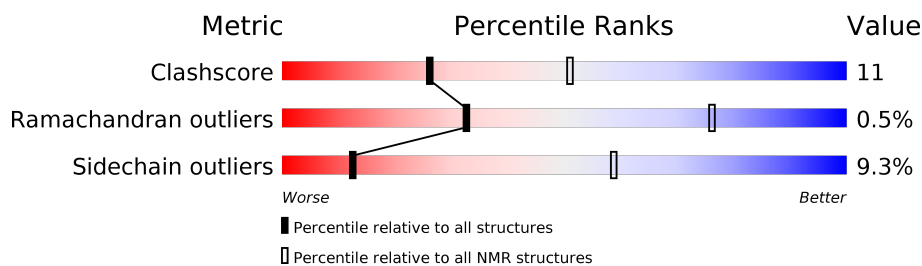
1 Overall quality at a glance i

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 ≥ 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	
1	C	200	
2	B	187	

2 Ensemble composition and analysis

This entry contains 10 models. Model 8 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:239-A:395, C:401-C:596 (353)	0.25	8
2	B:2-B:172 (171)	0.51	8

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

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

The models can be grouped into 2 clusters and 2 single-model clusters were found.

Cluster number	Models
1	2, 3, 6, 7, 8, 9
2	4, 10
Single-model clusters	1; 5

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
			Total	C	H	N	O	S	
1	A	198	1645	1019	22	287	314	3	0
1	C	198	1646	1019	22	287	315	3	0

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

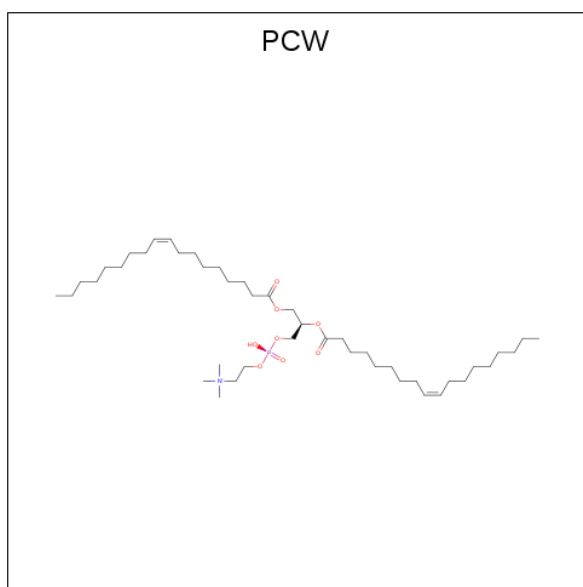
- Molecule 2 is a protein called GTPase KRas.

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

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: C₄₄H₈₅NO₈P).



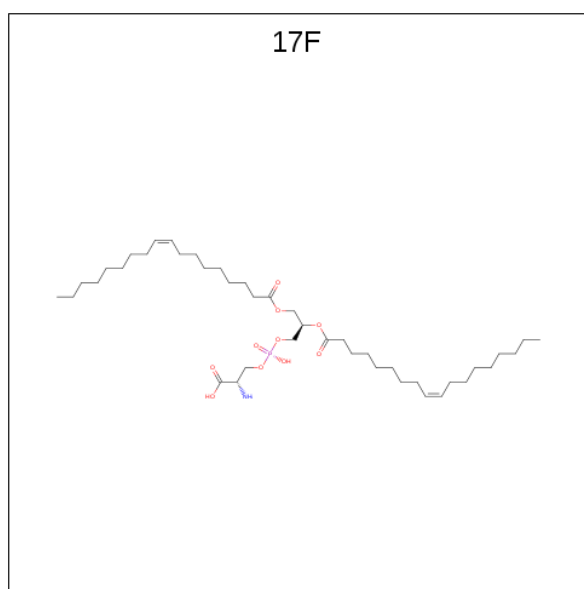
Mol	Chain	Residues	Atoms				
			Total	C	N	O	P
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	C	N	O	P
			54	44	1	8	1
3	A	1	Total	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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Mol	Chain	Residues	Atoms				
			Total	C	N	O	P
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-enyloxy]propyl}oxy)(hydroxy)phosphoryl]-L-serine (three-letter code: 17F) (formula: C₄₂H₇₈NO₁₀P).



Mol	Chain	Residues	Atoms				
			Total	C	N	O	P
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				
			Total	C	N	O	P
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: C₁₀H₁₇N₆O₁₃P₃).

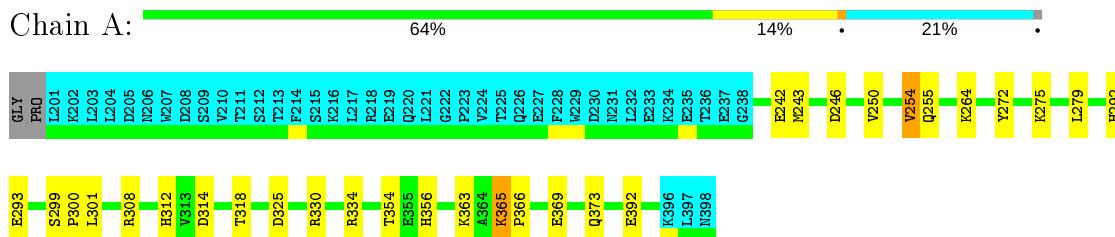
Mol	Chain	Residues	Atoms						
			Total	Br	C	Cl	H	N	O
7	B	1	49	1	21	1	22	3	1

4 Residue-property plots

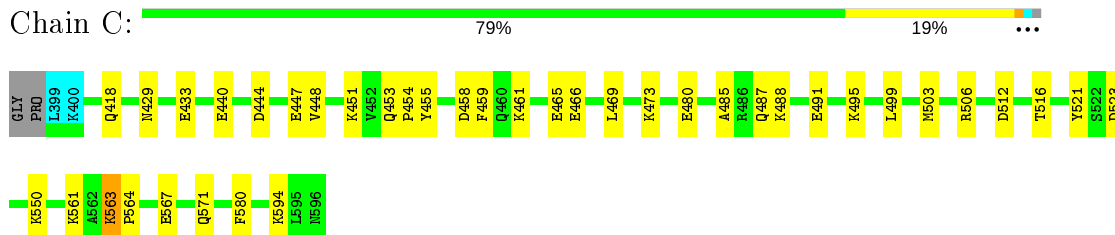
4.1 Average score per residue in the NMR ensemble

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.

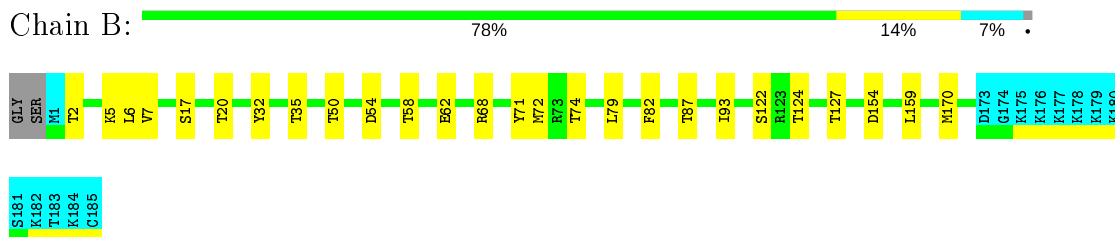
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I



- Molecule 2: GTPase KRas



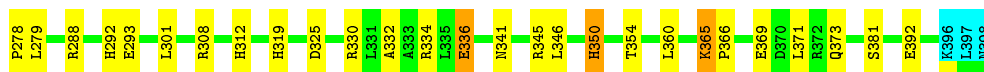
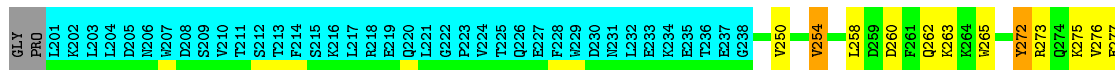
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

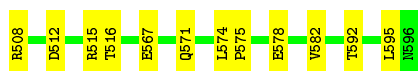
- Molecule 1: Apolipoprotein A-I

Chain A: 59% 17% 21%



- Molecule 1: Apolipoprotein A-I

Chain C: 77% 19%



- Molecule 2: GTPase KRas

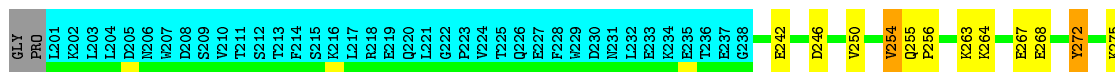
Chain B: 71% 19% 7%



4.2.2 Score per residue for model 2

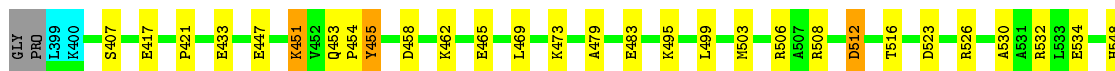
- Molecule 1: Apolipoprotein A-I

Chain A: 58% 19% 21%



- Molecule 1: Apolipoprotein A-I

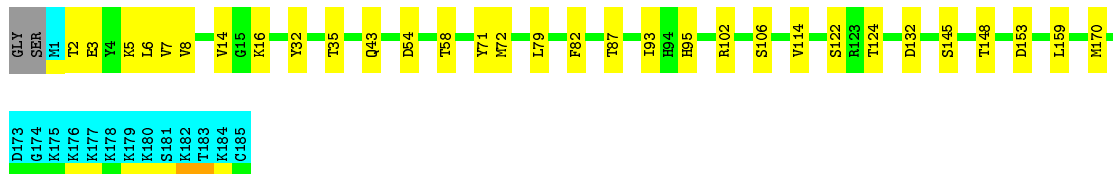
Chain C: 77% 19%





- Molecule 2: GTPase KRas

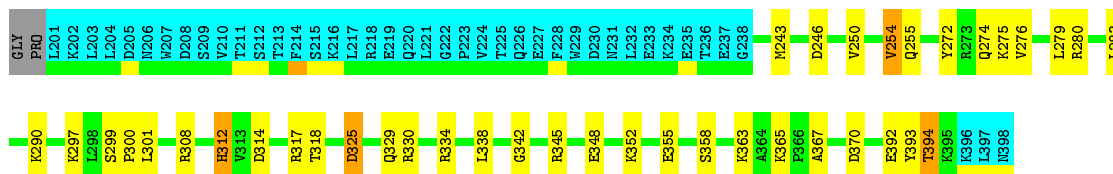
Chain B: 75% 17% 7%



4.2.3 Score per residue for model 3

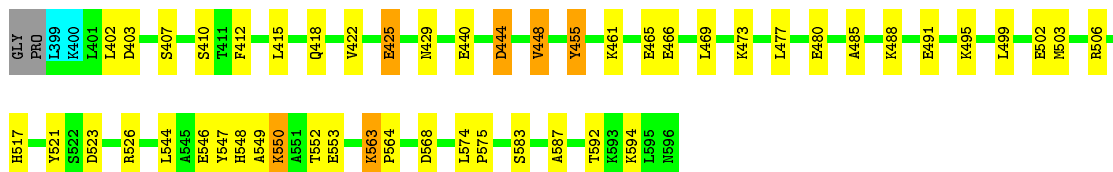
- Molecule 1: Apolipoprotein A-I

Chain A: 59% 18% 21%



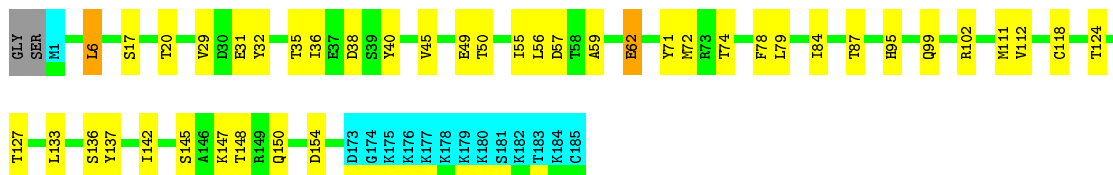
- Molecule 1: Apolipoprotein A-I

Chain C: 73% 22% 7%



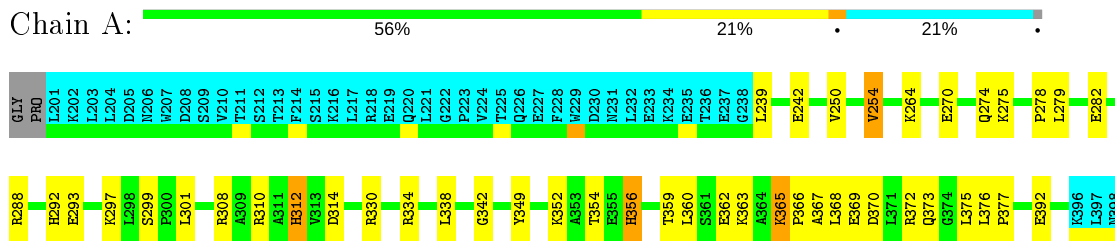
- Molecule 2: GTPase KRas

Chain B: 69% 21% 7%

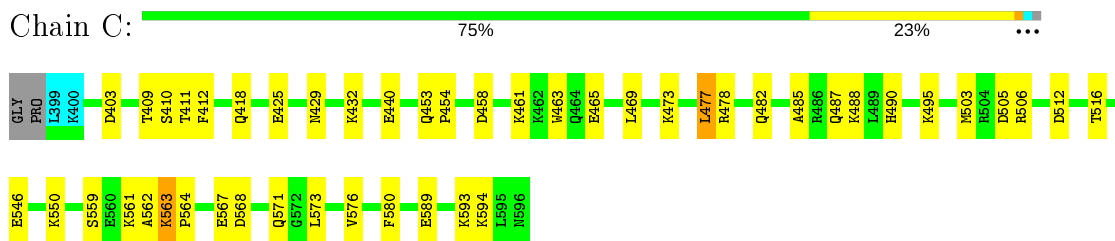


4.2.4 Score per residue for model 4

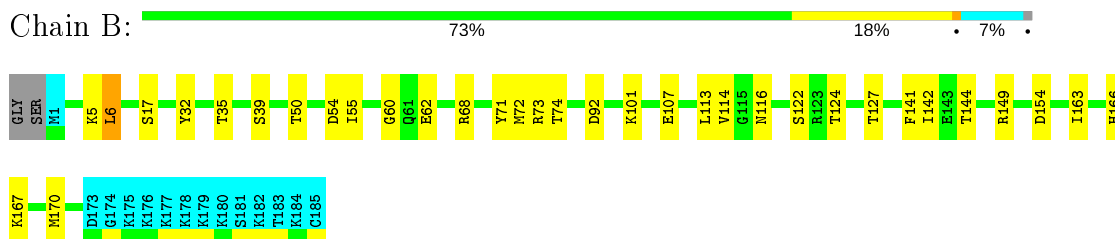
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I

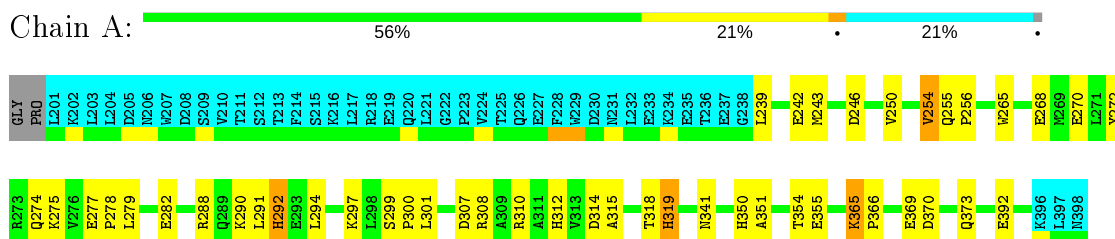


- Molecule 2: GTPase KRas

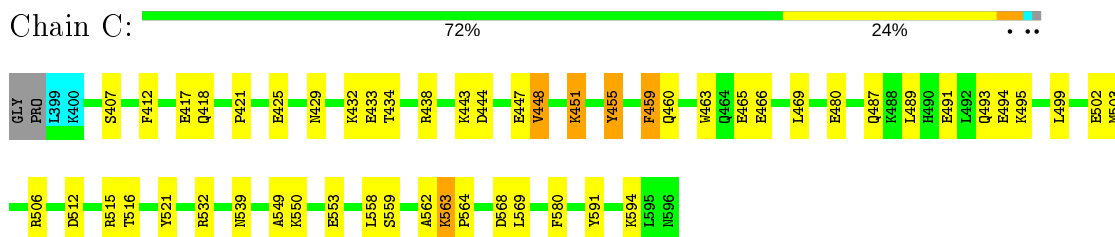


4.2.5 Score per residue for model 5

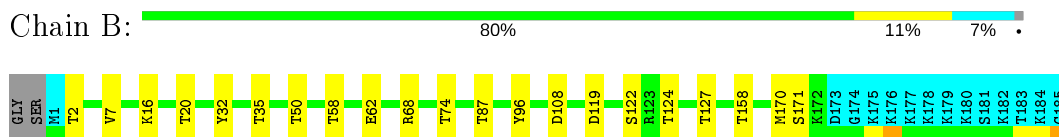
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I

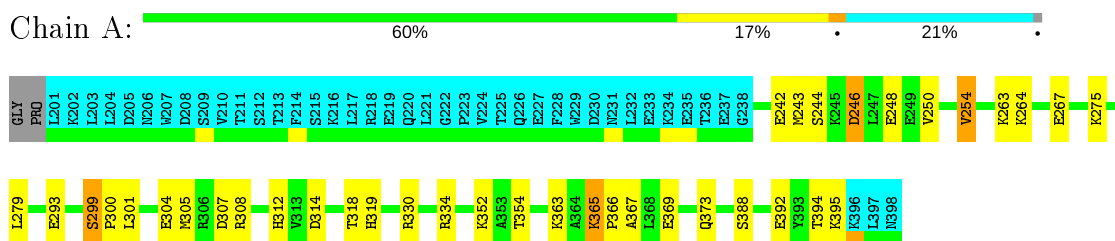


- Molecule 2: GTPase KRas

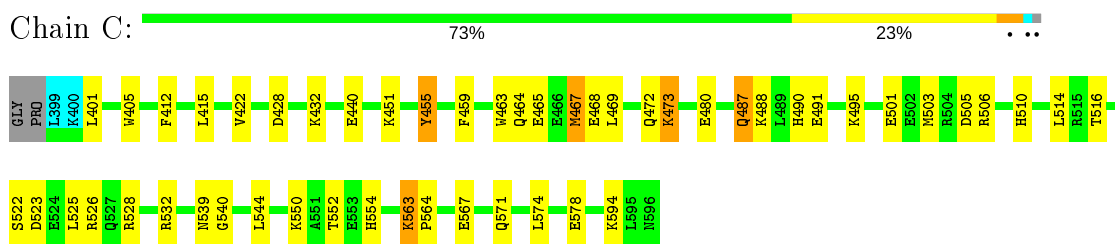


4.2.6 Score per residue for model 6

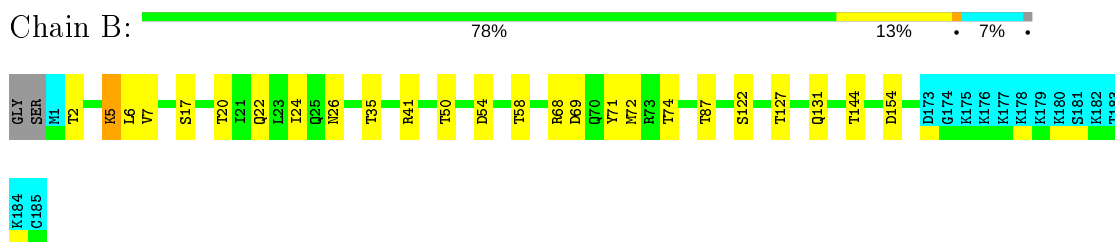
- Molecule 1: Apolipoprotein A-I



- Molecule 1: Apolipoprotein A-I

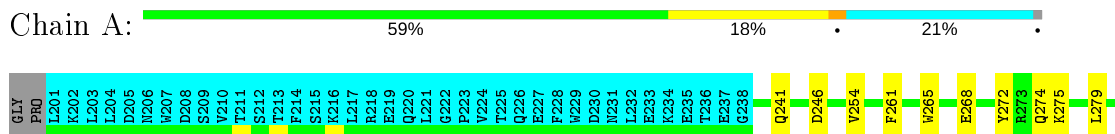


- Molecule 2: GTPase KRas



4.2.7 Score per residue for model 7

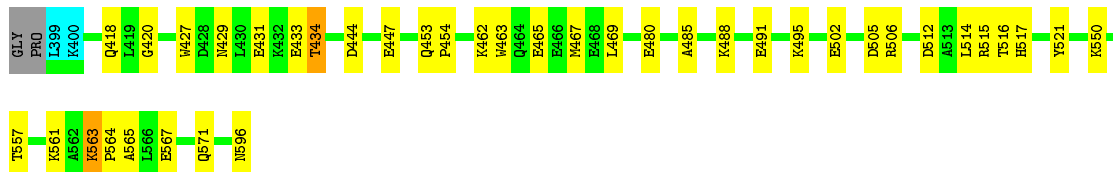
- Molecule 1: Apolipoprotein A-I





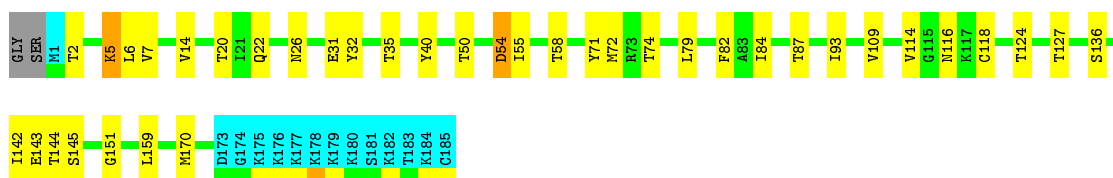
- Molecule 1: Apolipoprotein A-I

Chain C: 79% 19%



- Molecule 2: GTPase KRas

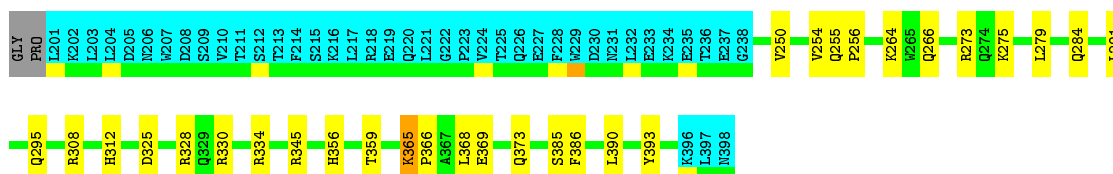
Chain B: 71% 19% 7%



4.2.8 Score per residue for model 8 (medoid)

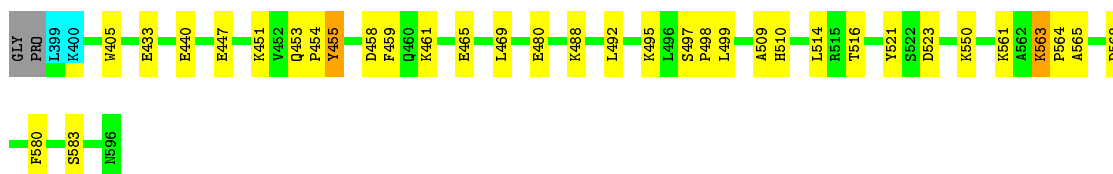
- Molecule 1: Apolipoprotein A-I

Chain A: 64% 15% 21%



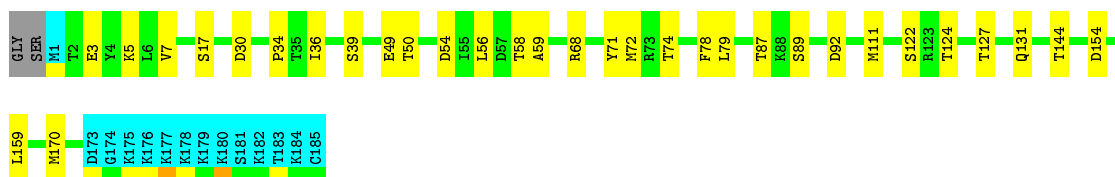
- Molecule 1: Apolipoprotein A-I

Chain C: 81% 16%



- Molecule 2: GTPase KRas

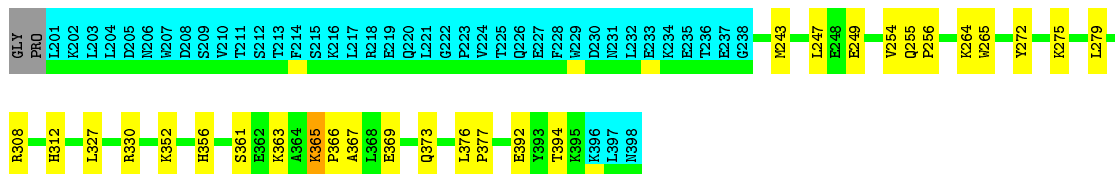
Chain B: 74% 17% 7%



4.2.9 Score per residue for model 9

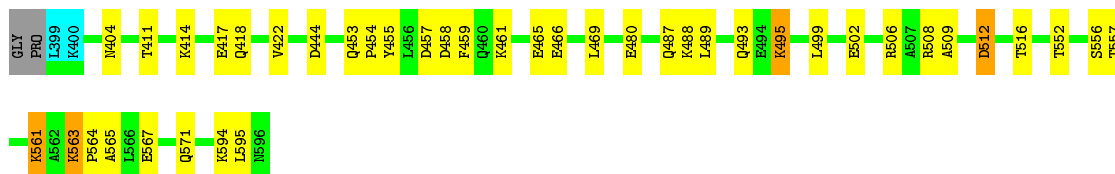
- Molecule 1: Apolipoprotein A-I

Chain A: 65% 14% 21%



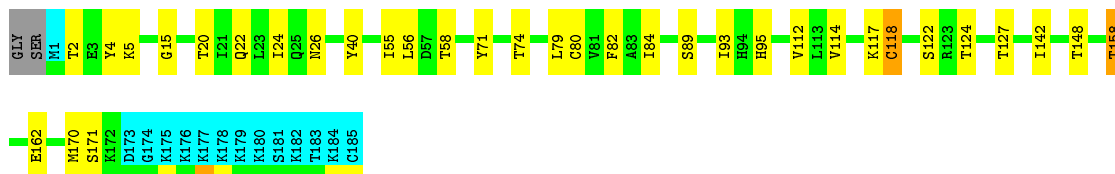
- Molecule 1: Apolipoprotein A-I

Chain C: 78% 19%



- Molecule 2: GTPase KRas

Chain B: 73% 17% 7%

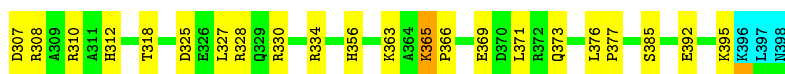


4.2.10 Score per residue for model 10

- Molecule 1: Apolipoprotein A-I

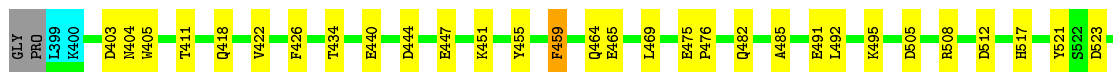
Chain A: 62% 16% 21%





- Molecule 1: Apolipoprotein A-I

Chain C: 76% 20%



- Molecule 2: GTPase KRas

Chain B: 73% 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
CNS	refinement	
HADDOCK	structure calculation	

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	1284	18	1297	28±5
1	C	1607	22	1603	34±7
2	B	1368	322	1356	17±5
3	A	540	0	840	32±9
3	B	1512	0	2351	78±17
3	C	1404	0	2182	63±16
4	A	54	0	76	5±2

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Mol	Chain	Non-H	H(model)	H(added)	Clashes
4	B	432	0	608	37±5
4	C	378	0	532	26±7
5	B	32	0	13	1±1
7	B	27	22	0	9±4
All	All	86390	3840	108600	2177

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 11.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:72:MET:HA	7:B:239:EWS:BRA	1.57	1.53	3	5
1:A:308:ARG:CD	1:C:469:LEU:HD11	1.48	1.34	10	1
1:A:393:TYR:CE1	3:A:406:PCW:H271	1.45	1.46	8	1
1:A:393:TYR:CD1	3:A:406:PCW:C27	1.43	2.01	8	2
1:A:393:TYR:CD1	3:A:406:PCW:H271	1.37	1.51	8	1
1:A:393:TYR:HD1	3:A:406:PCW:C27	1.33	1.31	8	1
1:C:465:GLU:O	1:C:469:LEU:HG	1.28	1.19	9	9
2:B:72:MET:HB3	7:B:239:EWS:BRA	1.26	1.83	10	1
1:C:465:GLU:O	1:C:469:LEU:CG	1.26	1.82	4	6
1:A:308:ARG:CG	1:C:469:LEU:HD11	1.21	1.63	10	3
3:B:221:PCW:C5	3:C:601:PCW:H61	1.20	1.64	4	1
2:B:71:TYR:O	7:B:239:EWS:BRA	1.20	2.13	7	7
3:A:403:PCW:C38	3:B:218:PCW:H471	1.18	1.67	1	1
1:A:308:ARG:CD	1:C:469:LEU:CD1	1.18	2.21	10	1
3:B:221:PCW:O4P	3:C:601:PCW:C6	1.16	1.93	4	1
2:B:72:MET:CA	7:B:239:EWS:BRA	1.16	2.48	3	3
1:A:308:ARG:HG3	1:C:469:LEU:CD1	1.14	1.72	6	4
2:B:7:VAL:HG13	7:B:239:EWS:CAS	1.14	1.70	1	3
3:C:601:PCW:H441	4:C:627:17F:H54	1.14	1.18	8	1
1:A:393:TYR:HD1	3:A:406:PCW:H272	1.11	0.99	8	1
1:A:308:ARG:HD3	1:C:469:LEU:CD1	1.11	1.75	10	2
3:C:601:PCW:H483	3:C:605:PCW:C48	1.11	1.75	10	1
3:C:620:PCW:C16	4:C:633:17F:H29	1.10	1.76	4	1
1:A:368:LEU:HD11	4:B:230:17F:H54	1.10	1.18	8	1
3:B:221:PCW:H161	3:C:601:PCW:C38	1.10	1.72	10	1
3:B:221:PCW:H161	3:C:601:PCW:H372	1.09	1.25	8	1
2:B:72:MET:CB	7:B:239:EWS:BRA	1.08	2.55	10	1
3:B:221:PCW:C5	3:C:601:PCW:C6	1.08	2.32	4	1
1:C:488:LYS:HD2	3:C:620:PCW:H281	1.07	1.25	8	1
3:B:207:PCW:H222	3:C:601:PCW:H452	1.05	1.27	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:207:PCW:C22	3:C:601:PCW:H452	1.05	1.79	8	1
1:A:308:ARG:CG	1:C:469:LEU:CD1	1.05	2.34	10	2
2:B:7:VAL:HB	7:B:239:EWS:CAT	1.05	1.81	10	3
3:C:620:PCW:C14	4:C:633:17F:H59	1.05	1.81	4	1
1:C:567:GLU:O	1:C:571:GLN:HG3	1.05	1.48	9	7
3:C:601:PCW:C48	3:C:605:PCW:H481	1.04	1.82	10	1
1:A:308:ARG:CD	1:C:469:LEU:HD21	1.04	1.82	7	2
3:A:403:PCW:H20	3:C:606:PCW:H282	1.04	1.30	1	1
3:B:221:PCW:H51	3:C:601:PCW:H61	1.03	1.30	4	1
1:A:308:ARG:HG3	1:C:469:LEU:HD11	1.02	1.26	2	3
3:B:221:PCW:H181	3:C:601:PCW:H411	1.02	1.23	10	1
1:A:349:TYR:CE2	3:A:401:PCW:H262	1.02	1.89	7	1
3:A:403:PCW:H222	3:C:606:PCW:H282	1.01	1.28	1	1
3:A:403:PCW:H382	3:B:218:PCW:H471	1.01	1.18	1	1
3:C:601:PCW:C48	3:C:605:PCW:C48	1.01	2.37	10	1
1:A:308:ARG:HG3	1:C:469:LEU:HD21	1.00	1.27	1	6
1:A:308:ARG:HD2	1:C:469:LEU:HD21	1.00	1.33	10	2
3:B:217:PCW:H432	3:B:223:PCW:H451	0.99	1.32	5	1
3:B:223:PCW:H471	4:C:632:17F:H76	0.99	1.34	5	1
3:B:223:PCW:H281	1:C:521:TYR:CE2	0.98	1.93	5	1
1:C:488:LYS:NZ	3:C:620:PCW:H261	0.98	1.72	4	1
3:B:221:PCW:H141	3:C:601:PCW:H351	0.98	1.31	4	1
3:B:221:PCW:H411	3:C:601:PCW:H39	0.97	1.35	10	1
1:A:369:GLU:O	1:A:373:GLN:HG3	0.97	1.58	1	8
3:C:620:PCW:H162	4:C:633:17F:C1X	0.96	1.90	4	1
1:A:308:ARG:HD3	1:C:469:LEU:HD11	0.95	0.97	10	2
3:B:217:PCW:H451	3:B:223:PCW:H462	0.95	1.32	5	1
3:B:221:PCW:C12	3:C:601:PCW:H362	0.95	1.77	10	1
3:C:620:PCW:H131	4:C:633:17F:H56	0.94	1.38	4	1
1:C:488:LYS:HD3	3:C:620:PCW:H283	0.94	1.34	9	1
3:A:410:PCW:H332	4:C:630:17F:H29	0.94	1.35	1	2
3:B:201:PCW:H361	3:B:220:PCW:H352	0.93	1.39	10	1
3:B:221:PCW:H52	3:C:601:PCW:C6	0.93	1.90	4	1
3:B:221:PCW:H161	3:C:601:PCW:C39	0.93	1.93	10	1
3:B:216:PCW:H62	3:C:601:PCW:C7	0.93	1.92	4	1
1:A:297:LYS:HE2	1:C:477:LEU:HG	0.92	1.39	4	1
3:B:216:PCW:H62	3:C:601:PCW:H73	0.92	1.41	4	1
2:B:7:VAL:HA	7:B:239:EWS:NAW	0.92	1.78	5	1
3:C:620:PCW:H162	4:C:633:17F:H29	0.92	0.94	4	2
3:B:210:PCW:H322	3:B:214:PCW:H132	0.92	1.42	4	1
3:A:403:PCW:H222	3:C:606:PCW:C28	0.92	1.94	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:465:GLU:O	1:C:469:LEU:CB	0.92	2.16	4	2
3:C:601:PCW:H483	3:C:605:PCW:H481	0.91	1.32	10	1
3:B:205:PCW:H41	3:B:222:PCW:H71	0.90	1.41	10	1
3:B:221:PCW:H241	3:C:601:PCW:C19	0.90	1.94	10	2
1:C:488:LYS:NZ	3:C:620:PCW:C26	0.90	2.34	4	1
1:A:393:TYR:CE1	3:A:406:PCW:C27	0.90	2.40	8	1
3:B:221:PCW:O4P	3:C:601:PCW:H63	0.90	1.65	4	1
3:C:618:PCW:H352	3:C:626:PCW:H162	0.89	1.43	5	2
3:B:211:PCW:H332	4:B:226:17F:H19	0.89	1.44	10	1
3:B:211:PCW:H362	4:B:226:17F:H8	0.89	1.44	10	2
3:B:217:PCW:H472	3:B:223:PCW:H483	0.88	1.43	5	1
3:B:201:PCW:H31	3:B:203:PCW:H342	0.88	1.43	7	1
3:B:221:PCW:H211	3:C:601:PCW:H411	0.88	1.44	4	1
3:C:620:PCW:H141	4:C:633:17F:H59	0.88	1.45	4	1
1:A:393:TYR:HE1	3:A:406:PCW:H271	0.88	1.22	8	1
1:C:488:LYS:HD2	3:C:620:PCW:H272	0.88	1.43	4	1
3:B:221:PCW:C18	3:C:601:PCW:H411	0.87	2.00	10	1
1:A:393:TYR:CD1	3:A:406:PCW:H272	0.87	1.83	8	1
3:B:223:PCW:C47	4:C:632:17F:H76	0.86	1.99	5	1
2:B:72:MET:CG	7:B:239:EWS:BRA	0.86	2.79	10	2
1:C:488:LYS:HZ1	3:C:620:PCW:H261	0.86	1.22	4	1
3:B:221:PCW:C16	3:C:601:PCW:C39	0.86	2.53	10	1
1:A:308:ARG:HD2	1:C:469:LEU:CD2	0.86	2.00	10	1
3:B:221:PCW:H161	3:C:601:PCW:H381	0.86	1.48	10	1
3:A:410:PCW:H372	4:C:630:17F:H36	0.85	1.46	2	2
3:C:618:PCW:H362	3:C:626:PCW:H152	0.85	1.48	9	2
1:A:393:TYR:CD1	3:A:406:PCW:H283	0.85	2.06	2	1
2:B:7:VAL:HG13	7:B:239:EWS:CAT	0.84	2.02	1	2
3:B:223:PCW:H481	4:C:632:17F:H78	0.84	1.49	5	1
3:B:221:PCW:H272	3:C:601:PCW:H221	0.84	1.48	2	2
3:B:221:PCW:C4	3:C:601:PCW:C6	0.84	2.55	4	1
3:B:210:PCW:H71	4:B:226:17F:HN1A	0.84	1.32	3	1
1:C:465:GLU:O	1:C:469:LEU:CD1	0.84	2.24	4	2
4:A:407:17F:H9A	3:B:205:PCW:H332	0.84	1.47	9	1
3:A:406:PCW:H121	4:A:407:17F:H57	0.83	1.51	1	4
3:B:221:PCW:H241	3:C:601:PCW:H19	0.83	1.50	10	1
3:B:207:PCW:C22	3:C:601:PCW:C45	0.83	2.56	8	1
4:C:630:17F:H4	4:C:630:17F:H1	0.83	1.48	1	2
4:B:230:17F:H4	4:B:230:17F:H1	0.83	1.46	9	1
1:C:488:LYS:CG	3:C:620:PCW:H281	0.82	2.03	3	1
3:B:221:PCW:C11	3:C:601:PCW:H362	0.82	2.03	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:5:LYS:HD3	7:B:239:EWS:CAX	0.82	2.05	8	3
4:C:628:17F:H65	4:C:632:17F:H11	0.82	1.48	1	4
3:A:406:PCW:H342	4:B:227:17F:H11	0.81	1.50	6	2
3:B:207:PCW:H221	3:C:601:PCW:C45	0.81	2.05	8	1
1:C:563:LYS:HB2	1:C:564:PRO:HD3	0.81	1.52	2	9
3:B:221:PCW:O4P	3:C:601:PCW:H62	0.81	1.71	4	1
1:A:279:LEU:HD22	1:C:495:LYS:HG2	0.80	1.53	10	7
3:A:410:PCW:H121	4:C:630:17F:H30	0.80	1.54	9	7
1:C:488:LYS:HD3	3:C:620:PCW:C28	0.80	2.05	9	1
3:A:403:PCW:H382	3:B:218:PCW:C47	0.80	2.05	1	1
4:C:630:17F:H2	4:C:630:17F:H4A	0.80	1.52	9	4
3:B:214:PCW:H281	4:C:627:17F:H78	0.80	1.52	6	1
3:B:223:PCW:H481	4:C:632:17F:C42	0.80	2.06	5	1
1:A:365:LYS:HB2	1:A:366:PRO:HD3	0.79	1.55	4	8
4:B:226:17F:H47	4:C:628:17F:H55	0.79	1.54	5	1
3:B:206:PCW:H332	3:B:211:PCW:H342	0.79	1.52	6	1
3:C:618:PCW:H372	3:C:626:PCW:H152	0.79	1.55	3	2
3:B:221:PCW:C16	3:C:601:PCW:C40	0.79	2.61	10	1
3:B:221:PCW:H73	4:B:229:17F:H1	0.79	1.55	4	1
3:A:402:PCW:H41	4:A:407:17F:H1	0.79	1.55	10	1
3:C:607:PCW:H182	3:C:615:PCW:H351	0.78	1.56	7	2
1:C:488:LYS:HZ1	3:C:620:PCW:C26	0.78	1.90	4	1
3:C:607:PCW:H462	4:C:633:17F:H43	0.78	1.56	4	3
1:A:308:ARG:HD3	1:C:469:LEU:HD21	0.78	1.54	7	1
3:B:208:PCW:H73	3:B:218:PCW:H42	0.78	1.56	5	1
2:B:7:VAL:CB	7:B:239:EWS:CAT	0.78	2.60	10	1
1:C:488:LYS:HD2	3:C:620:PCW:C28	0.78	2.08	8	1
3:B:211:PCW:H121	4:B:226:17F:H18A	0.78	1.55	7	3
3:B:211:PCW:H152	4:B:226:17F:H4	0.77	1.53	5	1
1:C:466:GLU:OE1	1:C:469:LEU:HD12	0.77	1.78	1	1
3:B:211:PCW:H382	4:B:226:17F:H8	0.77	1.54	7	4
2:B:5:LYS:HD3	7:B:239:EWS:CBA	0.77	2.10	8	3
3:C:607:PCW:H381	3:C:615:PCW:H412	0.77	1.56	5	1
3:A:408:PCW:H351	3:A:410:PCW:H341	0.77	1.55	2	1
3:B:204:PCW:H122	3:B:212:PCW:H371	0.77	1.56	5	1
3:B:201:PCW:H371	4:B:228:17F:H37	0.77	1.56	10	1
3:B:221:PCW:H162	3:C:601:PCW:C40	0.76	2.10	10	1
1:A:349:TYR:CE2	3:A:401:PCW:C26	0.76	2.67	7	1
3:C:606:PCW:H361	3:C:612:PCW:H151	0.76	1.56	1	2
3:B:206:PCW:H121	3:B:220:PCW:H82	0.76	1.55	7	1
4:B:226:17F:H11	4:B:232:17F:H59	0.76	1.56	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:567:GLU:O	1:C:571:GLN:CG	0.76	2.34	9	3
3:C:611:PCW:H352	3:C:623:PCW:H382	0.75	1.58	4	1
3:C:618:PCW:H381	3:C:626:PCW:H171	0.75	1.56	5	3
3:B:221:PCW:H421	4:B:229:17F:H66	0.75	1.56	1	1
3:B:202:PCW:H122	3:B:202:PCW:H341	0.75	1.58	4	2
3:C:618:PCW:H361	3:C:626:PCW:H212	0.75	1.58	6	3
3:B:217:PCW:H73	4:B:226:17F:HN1A	0.75	1.41	4	2
3:B:201:PCW:H351	3:B:220:PCW:H341	0.75	1.58	5	1
3:B:218:PCW:H231	3:C:626:PCW:H282	0.75	1.56	5	1
3:A:403:PCW:C39	3:B:218:PCW:H471	0.75	2.11	1	1
3:B:209:PCW:H252	3:C:601:PCW:H471	0.75	1.59	4	1
3:C:621:PCW:H431	4:C:632:17F:H58	0.75	1.57	2	3
3:B:210:PCW:H71	4:B:226:17F:N1	0.75	1.97	3	1
3:B:203:PCW:H421	4:B:228:17F:H11	0.74	1.59	4	1
3:B:220:PCW:H341	4:B:228:17F:H30	0.74	1.56	3	1
3:C:624:PCW:H372	3:C:625:PCW:H152	0.74	1.56	4	1
1:A:308:ARG:CD	1:C:469:LEU:CG	0.74	2.66	10	1
3:C:606:PCW:H141	3:C:612:PCW:H121	0.74	1.58	3	1
3:B:213:PCW:H141	4:B:228:17F:H18	0.74	1.58	6	1
1:A:393:TYR:HD1	3:A:406:PCW:H283	0.74	1.43	2	1
3:C:601:PCW:C44	4:C:627:17F:H54	0.74	2.09	8	1
3:B:221:PCW:H261	3:C:601:PCW:H20	0.74	1.60	9	1
3:A:403:PCW:C20	3:C:606:PCW:H282	0.73	2.11	1	1
3:C:618:PCW:H352	3:C:626:PCW:H152	0.73	1.58	4	2
3:B:206:PCW:H20	3:B:220:PCW:H181	0.73	1.59	1	1
3:B:221:PCW:H52	3:C:601:PCW:H62	0.73	1.58	4	1
3:B:223:PCW:H281	1:C:521:TYR:HE2	0.73	1.40	5	1
3:B:221:PCW:H281	3:C:601:PCW:H242	0.73	1.59	6	1
3:B:221:PCW:H361	4:B:229:17F:H34	0.73	1.61	8	1
2:B:5:LYS:CE	7:B:239:EWS:OAB	0.73	2.36	8	3
2:B:79:LEU:HG	2:B:159:LEU:HD22	0.73	1.61	7	4
1:A:356:HIS:CD2	3:A:401:PCW:C27	0.73	2.72	9	1
3:B:222:PCW:H52	4:B:227:17F:HN1A	0.73	1.44	7	1
1:A:393:TYR:HD1	3:A:406:PCW:C28	0.73	1.96	2	1
4:B:227:17F:H64	3:C:619:PCW:H481	0.73	1.61	1	1
3:B:217:PCW:C45	3:B:223:PCW:H462	0.73	2.13	5	1
3:B:223:PCW:C48	4:C:632:17F:C42	0.73	2.67	5	1
3:C:624:PCW:H372	3:C:625:PCW:H162	0.73	1.59	10	1
2:B:5:LYS:HB3	7:B:239:EWS:CAX	0.73	2.14	4	3
3:B:204:PCW:H271	3:B:218:PCW:H181	0.72	1.61	6	1
4:A:407:17F:H35	4:B:227:17F:H34	0.72	1.60	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:403:PCW:C22	3:C:606:PCW:H262	0.72	2.13	1	1
3:B:213:PCW:H332	3:B:213:PCW:H131	0.72	1.61	5	1
4:C:630:17F:H1	4:C:630:17F:H4	0.72	1.61	7	1
3:B:211:PCW:O1P	3:B:215:PCW:H82	0.72	1.84	4	1
3:A:406:PCW:H121	4:A:407:17F:H33	0.72	1.62	10	2
3:B:221:PCW:C28	3:C:601:PCW:H242	0.72	2.15	6	1
3:B:223:PCW:H281	1:C:521:TYR:CD2	0.72	2.19	5	1
2:B:5:LYS:NZ	7:B:239:EWS:OAB	0.71	2.21	7	3
3:B:217:PCW:H40	3:B:223:PCW:H451	0.71	1.59	5	1
3:B:223:PCW:C28	1:C:521:TYR:CE2	0.71	2.71	5	1
3:A:403:PCW:H20	3:C:606:PCW:C28	0.71	2.13	1	1
2:B:56:LEU:HD22	7:B:239:EWS:CAQ	0.71	2.14	8	2
3:A:409:PCW:H181	3:C:613:PCW:H341	0.71	1.61	2	1
3:B:207:PCW:H81	4:B:228:17F:HN1	0.71	1.45	8	1
3:B:221:PCW:C16	3:C:601:PCW:H372	0.71	2.10	8	1
1:A:307:ASP:HA	1:A:310:ARG:HD2	0.71	1.63	10	2
2:B:5:LYS:HE2	7:B:239:EWS:OAB	0.71	1.85	9	2
4:C:630:17F:C4	4:C:630:17F:H1	0.71	2.15	1	3
3:B:207:PCW:H481	3:C:604:PCW:H261	0.71	1.62	9	1
1:C:488:LYS:HD3	3:C:620:PCW:H281	0.71	1.61	7	1
1:C:465:GLU:O	1:C:469:LEU:HB2	0.71	1.86	4	1
3:B:211:PCW:H331	4:B:226:17F:H19	0.71	1.62	2	1
3:B:215:PCW:H52	3:B:217:PCW:H321	0.71	1.62	6	2
1:A:260:ASP:HA	1:A:263:LYS:HE2	0.71	1.60	1	1
3:B:223:PCW:C28	1:C:521:TYR:HE2	0.70	1.98	5	1
3:C:620:PCW:C14	4:C:633:17F:C32	0.70	2.66	4	1
3:A:408:PCW:H382	3:A:408:PCW:H172	0.70	1.62	1	1
2:B:5:LYS:CD	7:B:239:EWS:CAX	0.70	2.69	8	3
3:B:204:PCW:H322	3:B:212:PCW:H332	0.70	1.62	5	1
1:A:316:LEU:HG	1:C:462:LYS:HE3	0.70	1.63	7	2
3:B:217:PCW:H39	4:B:226:17F:H62	0.70	1.63	1	1
1:C:485:ALA:CB	3:C:620:PCW:H272	0.70	2.17	1	1
3:C:606:PCW:H351	3:C:612:PCW:H382	0.70	1.62	2	8
1:A:356:HIS:CD2	3:A:401:PCW:H272	0.70	2.20	9	1
3:B:211:PCW:H321	4:B:226:17F:H5	0.70	1.64	4	2
3:B:233:PCW:H351	3:B:233:PCW:H122	0.70	1.62	9	2
1:A:275:LYS:O	1:A:279:LEU:HG	0.70	1.87	1	9
1:C:473:LYS:HG2	4:C:629:17F:H76	0.70	1.64	6	1
3:A:403:PCW:H351	3:B:212:PCW:H462	0.70	1.63	1	1
2:B:7:VAL:HG22	7:B:239:EWS:CAS	0.70	2.16	2	1
3:A:408:PCW:H31	3:C:610:PCW:H352	0.69	1.63	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:609:PCW:H371	3:C:624:PCW:H361	0.69	1.64	10	1
1:A:341:ASN:HD21	1:C:433:GLU:HA	0.69	1.48	5	4
3:B:216:PCW:H42	4:B:229:17F:H1	0.69	1.64	2	1
3:B:219:PCW:H441	3:B:225:PCW:H441	0.69	1.64	1	1
4:B:227:17F:H10	4:B:227:17F:H58	0.69	1.64	6	2
1:A:393:TYR:CD1	3:A:406:PCW:C28	0.69	2.76	2	3
3:C:624:PCW:H39	3:C:625:PCW:H421	0.69	1.62	2	1
3:C:613:PCW:H281	3:C:623:PCW:H242	0.69	1.63	3	1
3:B:211:PCW:H332	4:B:226:17F:C19	0.69	2.18	10	1
3:C:615:PCW:H211	4:C:629:17F:H41	0.69	1.64	5	1
3:A:403:PCW:C22	3:C:606:PCW:H282	0.69	2.14	1	1
1:C:453:GLN:HB2	1:C:454:PRO:HD3	0.69	1.61	7	5
3:A:409:PCW:H242	3:A:410:PCW:H231	0.69	1.62	10	1
1:A:308:ARG:HD2	1:C:469:LEU:CG	0.69	2.17	10	1
4:B:226:17F:H42	4:B:232:17F:H66	0.68	1.64	10	1
3:B:221:PCW:C12	3:C:601:PCW:C36	0.68	2.55	10	1
3:B:210:PCW:H142	3:B:214:PCW:H151	0.68	1.64	5	4
4:C:632:17F:H32	4:C:632:17F:H8A	0.68	1.63	9	1
3:A:406:PCW:H341	4:B:227:17F:H9	0.68	1.65	10	1
1:C:485:ALA:HB1	3:C:620:PCW:H272	0.68	1.64	1	2
2:B:56:LEU:HD23	7:B:239:EWS:BRA	0.68	2.43	8	2
3:B:204:PCW:H421	3:B:222:PCW:H182	0.68	1.65	10	1
3:A:403:PCW:H52	4:B:231:17F:N1	0.68	2.03	7	1
2:B:56:LEU:CD2	7:B:239:EWS:BRA	0.68	2.97	8	2
3:B:217:PCW:H151	4:B:226:17F:H34	0.68	1.66	7	1
3:B:212:PCW:H152	4:B:231:17F:H6A	0.68	1.66	4	1
2:B:72:MET:C	7:B:239:EWS:BRA	0.68	2.87	4	1
3:B:211:PCW:H322	4:B:226:17F:H19	0.68	1.64	1	1
1:A:308:ARG:CD	1:C:469:LEU:CD2	0.68	2.69	7	2
2:B:158:THR:HA	2:B:161:ARG:HD2	0.68	1.66	10	1
3:A:406:PCW:H341	4:A:407:17F:H32	0.68	1.65	6	1
3:B:210:PCW:H211	3:C:607:PCW:H461	0.68	1.66	4	1
3:C:607:PCW:H411	3:C:615:PCW:H432	0.68	1.66	3	2
3:A:406:PCW:H152	4:A:407:17F:H33	0.68	1.66	3	1
3:C:618:PCW:H122	3:C:626:PCW:H182	0.67	1.64	4	1
3:C:607:PCW:H242	3:C:615:PCW:H431	0.67	1.66	10	4
1:C:418:GLN:O	1:C:422:VAL:HB	0.67	1.88	9	3
1:C:488:LYS:CD	3:C:620:PCW:H272	0.67	2.18	4	1
3:B:207:PCW:H83	4:B:228:17F:N1	0.67	2.03	3	1
3:A:401:PCW:H321	3:B:203:PCW:H152	0.67	1.66	8	1
3:A:410:PCW:H322	4:C:630:17F:H37	0.67	1.66	8	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:217:PCW:H40	3:B:223:PCW:C45	0.67	2.19	5	1
3:A:405:PCW:H431	3:C:609:PCW:H231	0.67	1.66	3	1
3:A:403:PCW:C22	3:C:606:PCW:C26	0.67	2.73	1	1
3:C:606:PCW:H372	3:C:612:PCW:H182	0.67	1.67	10	3
4:B:232:17F:H49	3:C:624:PCW:H261	0.67	1.65	5	1
3:C:623:PCW:H122	3:C:623:PCW:H371	0.67	1.64	6	1
4:B:236:17F:H57	3:C:622:PCW:H141	0.67	1.66	6	1
3:C:601:PCW:H422	4:C:627:17F:H54	0.67	1.65	3	1
2:B:38:ASP:HB3	2:B:57:ASP:HB3	0.67	1.65	1	2
2:B:7:VAL:CG1	7:B:239:EWS:CAS	0.67	2.73	10	2
1:A:352:LYS:HG2	1:C:422:VAL:HG13	0.67	1.66	9	1
3:C:618:PCW:H381	3:C:626:PCW:H161	0.67	1.66	8	2
1:A:308:ARG:CB	1:C:469:LEU:HD11	0.67	2.20	10	3
3:B:217:PCW:H451	3:B:223:PCW:C46	0.67	2.18	5	1
3:A:408:PCW:H371	3:A:410:PCW:H362	0.67	1.65	2	2
3:C:617:PCW:H372	3:C:618:PCW:H121	0.67	1.67	3	1
3:B:202:PCW:H351	3:B:214:PCW:H321	0.66	1.65	6	1
3:A:401:PCW:H61	3:B:213:PCW:H11	0.66	1.67	8	1
3:B:201:PCW:H221	4:B:227:17F:H65	0.66	1.68	1	1
3:B:213:PCW:H251	3:B:213:PCW:H462	0.66	1.67	8	1
3:C:618:PCW:H351	3:C:626:PCW:H182	0.66	1.67	10	2
1:A:349:TYR:OH	3:A:401:PCW:C22	0.66	2.44	4	1
3:A:410:PCW:H331	4:C:630:17F:H29	0.66	1.65	4	1
3:A:410:PCW:H382	4:C:630:17F:H36	0.66	1.67	9	4
1:A:308:ARG:HD3	1:C:469:LEU:CD2	0.66	2.21	7	1
3:B:215:PCW:H81	3:B:219:PCW:H73	0.66	1.65	4	1
3:C:601:PCW:C48	3:C:605:PCW:H483	0.66	2.19	10	1
3:B:201:PCW:H271	3:C:611:PCW:H472	0.66	1.68	2	1
3:A:406:PCW:H351	4:A:407:17F:H56	0.66	1.68	1	1
3:B:216:PCW:H73	4:B:229:17F:H4A	0.66	1.68	8	1
3:C:607:PCW:H482	4:C:633:17F:H39	0.66	1.64	8	1
3:C:624:PCW:H351	3:C:625:PCW:H152	0.66	1.67	1	4
3:A:403:PCW:H222	3:C:606:PCW:H262	0.66	1.67	1	1
1:A:349:TYR:OH	3:A:401:PCW:H221	0.66	1.89	4	1
3:B:214:PCW:H181	4:B:229:17F:H35	0.66	1.68	2	1
3:B:221:PCW:H82	4:B:229:17F:O1	0.66	1.91	8	1
3:C:606:PCW:H381	3:C:612:PCW:H152	0.66	1.66	2	1
2:B:5:LYS:HG3	7:B:239:EWS:OAB	0.66	1.90	1	1
4:B:228:17F:H68	3:C:624:PCW:H481	0.66	1.66	8	1
1:C:485:ALA:CB	3:C:620:PCW:H271	0.66	2.21	7	1
3:B:207:PCW:H131	3:B:216:PCW:H411	0.66	1.67	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:408:PCW:H321	3:C:610:PCW:H39	0.65	1.68	10	1
3:C:617:PCW:H372	3:C:618:PCW:H142	0.65	1.68	4	2
3:C:620:PCW:H142	4:C:633:17F:H59	0.65	1.68	4	1
2:B:56:LEU:HD22	7:B:239:EWS:CAR	0.65	2.20	8	1
3:B:201:PCW:H11	4:B:230:17F:HN1	0.65	1.50	5	2
3:B:207:PCW:H131	3:B:216:PCW:H382	0.65	1.69	6	2
3:B:208:PCW:H151	3:B:222:PCW:H351	0.65	1.67	4	1
3:B:209:PCW:H252	3:C:601:PCW:C47	0.65	2.21	4	1
2:B:82:PHE:HB3	2:B:93:ILE:HD11	0.65	1.67	7	5
1:C:547:TYR:HA	1:C:550:LYS:HB2	0.65	1.69	3	1
3:B:203:PCW:H12	3:B:213:PCW:H332	0.65	1.68	4	1
2:B:7:VAL:HA	7:B:239:EWS:CAT	0.65	2.22	1	1
3:B:211:PCW:H172	4:B:226:17F:H6	0.65	1.68	7	1
1:A:349:TYR:CZ	3:A:401:PCW:H221	0.65	2.27	4	1
3:B:223:PCW:C48	4:C:632:17F:H76	0.65	2.22	5	1
3:B:201:PCW:H12	4:B:230:17F:O1	0.65	1.92	5	2
3:B:221:PCW:H441	3:C:605:PCW:H471	0.65	1.68	3	1
3:C:607:PCW:H472	4:C:633:17F:H42	0.64	1.69	10	1
1:A:308:ARG:CG	1:C:469:LEU:HD21	0.64	2.15	3	2
3:B:207:PCW:H483	3:C:601:PCW:H211	0.64	1.69	4	1
3:A:406:PCW:H122	4:A:407:17F:H20	0.64	1.66	3	1
3:B:201:PCW:H212	4:B:230:17F:H20A	0.64	1.69	8	1
3:B:207:PCW:H222	3:C:601:PCW:H361	0.64	1.69	1	1
3:C:603:PCW:H332	3:C:607:PCW:H132	0.64	1.68	8	1
3:A:410:PCW:H361	4:C:630:17F:H12A	0.64	1.67	3	2
3:B:213:PCW:H381	3:B:213:PCW:H182	0.64	1.69	6	1
1:C:488:LYS:HG2	3:C:620:PCW:H281	0.64	1.68	3	1
3:A:405:PCW:H181	4:B:228:17F:H58	0.64	1.67	4	1
1:C:497:SER:HB2	1:C:498:PRO:HD3	0.64	1.69	8	2
1:A:308:ARG:HG3	1:C:469:LEU:CD2	0.64	2.16	3	6
3:B:221:PCW:C16	3:C:601:PCW:C38	0.64	2.64	10	1
3:A:409:PCW:H351	3:B:235:PCW:H412	0.64	1.69	9	1
3:C:607:PCW:H182	3:C:615:PCW:H352	0.64	1.69	9	1
3:A:403:PCW:H222	3:C:606:PCW:C26	0.64	2.22	1	1
3:B:221:PCW:C4	3:C:601:PCW:H61	0.64	2.21	4	1
3:A:409:PCW:H82	4:C:630:17F:HN1A	0.64	1.53	2	1
3:B:209:PCW:H372	4:B:228:17F:H34	0.64	1.70	3	1
3:B:210:PCW:H352	3:B:214:PCW:H141	0.64	1.67	10	1
3:B:216:PCW:H20	3:C:604:PCW:H482	0.64	1.67	2	1
1:C:465:GLU:O	1:C:469:LEU:HD12	0.63	1.92	4	2
1:A:349:TYR:CZ	3:A:401:PCW:H282	0.63	2.28	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:595:LEU:HD11	4:C:630:17F:H55	0.63	1.69	1	2
3:C:618:PCW:H371	3:C:626:PCW:H412	0.63	1.69	7	1
3:A:406:PCW:H331	4:A:407:17F:H56	0.63	1.70	3	1
3:A:410:PCW:H351	4:C:630:17F:H12A	0.63	1.71	6	2
3:A:402:PCW:H332	3:B:205:PCW:H32	0.63	1.69	7	2
3:A:403:PCW:C37	3:B:218:PCW:H471	0.63	2.23	1	1
3:B:207:PCW:H221	3:C:601:PCW:H451	0.63	1.70	8	1
3:B:235:PCW:H32	3:C:602:PCW:H11	0.63	1.70	9	1
3:C:620:PCW:H131	4:C:633:17F:C31	0.63	2.19	4	1
3:C:618:PCW:H352	3:C:626:PCW:H172	0.63	1.68	2	1
3:B:208:PCW:H20	3:B:222:PCW:H461	0.63	1.68	3	1
3:C:611:PCW:H151	3:C:623:PCW:H452	0.63	1.69	3	2
3:B:223:PCW:C27	1:C:521:TYR:HE2	0.63	2.06	5	1
1:A:299:SER:HB2	1:A:300:PRO:HD3	0.63	1.69	5	4
3:B:221:PCW:H262	1:C:459:PHE:CZ	0.63	2.28	5	1
3:B:223:PCW:C47	4:C:632:17F:C42	0.63	2.76	5	1
3:A:406:PCW:H483	4:B:227:17F:H41	0.63	1.71	1	1
3:A:410:PCW:H322	4:C:630:17F:H29	0.63	1.71	10	1
3:A:409:PCW:H181	3:C:613:PCW:H122	0.63	1.71	6	2
3:A:405:PCW:H352	3:B:216:PCW:H421	0.63	1.71	4	1
3:C:620:PCW:C16	4:C:633:17F:C1X	0.63	2.67	4	1
3:B:234:PCW:H151	3:C:622:PCW:H162	0.62	1.70	10	1
3:B:212:PCW:H331	4:B:231:17F:H11	0.62	1.71	9	1
3:B:211:PCW:H381	4:B:226:17F:H20A	0.62	1.71	1	1
3:B:207:PCW:H441	3:B:216:PCW:H272	0.62	1.71	7	1
3:B:223:PCW:H19	3:B:225:PCW:H251	0.62	1.70	7	1
4:B:236:17F:H10	4:C:628:17F:H38	0.62	1.69	5	3
3:A:406:PCW:H51	4:B:227:17F:O2	0.62	1.94	5	1
3:A:406:PCW:H241	3:A:408:PCW:H272	0.62	1.72	4	1
2:B:5:LYS:CG	7:B:239:EWS:OAB	0.62	2.48	1	1
3:C:618:PCW:H362	3:C:626:PCW:H412	0.62	1.71	6	1
3:B:235:PCW:H342	3:C:623:PCW:H121	0.62	1.72	7	1
3:B:204:PCW:H131	4:B:231:17F:H19	0.62	1.70	8	1
3:B:221:PCW:H141	3:C:601:PCW:C36	0.62	2.25	8	1
4:A:407:17F:H50	3:C:623:PCW:H252	0.62	1.71	5	1
3:C:609:PCW:H352	3:C:624:PCW:H361	0.62	1.70	5	1
4:B:228:17F:H36	4:B:232:17F:H37	0.62	1.72	8	1
3:B:204:PCW:H32	3:B:208:PCW:H12	0.62	1.70	5	1
3:B:210:PCW:H181	3:B:214:PCW:H181	0.62	1.69	4	1
3:C:604:PCW:H51	4:C:627:17F:N1	0.62	2.10	5	1
3:B:206:PCW:H40	4:B:226:17F:H73	0.62	1.71	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:209:PCW:H151	3:B:216:PCW:H151	0.61	1.72	4	1
4:B:236:17F:H32	3:C:622:PCW:H172	0.61	1.72	2	5
3:B:203:PCW:H31	3:B:213:PCW:H351	0.61	1.72	10	1
2:B:7:VAL:HB	7:B:239:EWS:CAS	0.61	2.25	8	2
3:B:202:PCW:H352	3:B:215:PCW:H152	0.61	1.73	10	1
2:B:7:VAL:HA	7:B:239:EWS:CAU	0.61	2.25	1	2
1:A:301:LEU:HD22	1:C:473:LYS:HE2	0.61	1.72	6	1
1:C:574:LEU:HB2	1:C:575:PRO:HD3	0.61	1.72	3	1
3:C:605:PCW:H161	4:C:629:17F:H18	0.61	1.70	6	1
4:C:630:17F:H1	4:C:630:17F:C4	0.61	2.25	7	1
3:A:406:PCW:H352	4:A:407:17F:H56	0.61	1.73	8	2
3:C:620:PCW:H142	4:C:633:17F:C32	0.61	2.25	4	1
3:A:409:PCW:H472	3:C:613:PCW:H182	0.61	1.72	6	1
2:B:72:MET:HG2	7:B:239:EWS:BRA	0.61	2.51	10	2
3:B:224:PCW:H52	3:B:224:PCW:H12	0.61	1.71	5	1
1:A:301:LEU:HD13	1:C:473:LYS:HG2	0.61	1.72	4	2
3:A:410:PCW:C33	4:C:630:17F:H29	0.61	2.20	1	2
3:B:203:PCW:H12	3:B:213:PCW:H322	0.61	1.73	1	1
2:B:56:LEU:HD22	7:B:239:EWS:CAD	0.61	2.25	1	1
1:A:356:HIS:HD2	3:A:401:PCW:H272	0.61	1.53	9	1
3:A:404:PCW:C7	7:B:239:EWS:OAB	0.61	2.49	10	1
3:C:601:PCW:H482	3:C:605:PCW:H481	0.61	1.67	10	1
4:B:227:17F:H58	4:B:227:17F:H10A	0.61	1.71	7	1
3:C:607:PCW:H332	3:C:615:PCW:H361	0.60	1.73	2	1
3:A:405:PCW:H381	3:B:207:PCW:H372	0.60	1.73	7	1
3:B:206:PCW:H321	3:B:211:PCW:H342	0.60	1.71	1	1
3:B:233:PCW:H141	3:B:233:PCW:H381	0.60	1.72	10	1
3:A:405:PCW:H332	3:B:216:PCW:H40	0.60	1.73	3	2
3:C:607:PCW:H462	4:C:633:17F:H42	0.60	1.72	5	1
1:A:352:LYS:HZ2	1:C:425:GLU:HB3	0.60	1.54	4	1
3:B:224:PCW:H61	4:B:229:17F:O4	0.60	1.96	1	1
3:C:603:PCW:H431	3:C:607:PCW:H11	0.60	1.73	1	1
3:B:221:PCW:C16	3:C:601:PCW:C41	0.60	2.79	10	1
1:A:393:TYR:CD1	3:A:406:PCW:H281	0.60	2.31	3	1
3:B:217:PCW:H61	4:B:226:17F:N1	0.60	2.12	2	1
3:B:221:PCW:C41	3:C:601:PCW:H39	0.60	2.22	10	1
3:C:604:PCW:H352	3:C:605:PCW:H352	0.60	1.74	10	1
3:C:605:PCW:H162	4:C:629:17F:H18	0.60	1.70	10	1
3:A:404:PCW:H182	3:B:225:PCW:H381	0.60	1.71	4	1
3:C:609:PCW:H412	3:C:624:PCW:H211	0.60	1.73	4	3
3:B:203:PCW:H72	4:B:230:17F:H6A	0.60	1.72	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:210:PCW:H51	4:B:229:17F:H6A	0.60	1.74	9	1
3:C:601:PCW:C40	4:C:627:17F:H54	0.60	2.26	4	1
3:B:204:PCW:H142	3:B:212:PCW:H381	0.60	1.72	1	1
3:A:409:PCW:H63	4:C:630:17F:HN1A	0.60	1.57	2	1
3:B:211:PCW:H331	4:B:226:17F:H5	0.60	1.73	6	3
3:C:606:PCW:H362	3:C:612:PCW:H351	0.60	1.72	10	5
1:C:488:LYS:HZ2	3:C:620:PCW:C26	0.60	2.10	4	1
3:B:223:PCW:H471	4:C:631:17F:H67	0.60	1.72	2	1
2:B:40:TYR:HE1	2:B:57:ASP:HB2	0.60	1.57	3	1
3:B:221:PCW:H132	3:C:601:PCW:H351	0.60	1.66	10	1
1:C:561:LYS:HA	1:C:565:ALA:HB3	0.60	1.73	9	1
3:A:410:PCW:H382	4:C:630:17F:H12A	0.60	1.73	1	1
3:A:403:PCW:C39	3:B:218:PCW:C47	0.59	2.80	1	1
3:B:210:PCW:H252	3:C:607:PCW:H471	0.59	1.73	10	1
3:C:615:PCW:H181	4:C:627:17F:H76	0.59	1.73	1	1
3:C:618:PCW:H331	3:C:626:PCW:H19	0.59	1.74	4	1
3:C:607:PCW:H221	3:C:615:PCW:H411	0.59	1.73	5	3
3:B:203:PCW:H161	4:B:230:17F:H34	0.59	1.74	4	1
1:A:264:LYS:HE3	1:C:509:ALA:HB1	0.59	1.74	9	2
4:C:630:17F:C4	4:C:630:17F:H2	0.59	2.27	9	2
3:B:203:PCW:H482	4:B:228:17F:H57	0.59	1.74	6	1
1:C:503:MET:HA	1:C:506:ARG:HD2	0.59	1.74	6	5
4:B:227:17F:H69	3:C:613:PCW:H232	0.59	1.73	7	1
3:B:218:PCW:H31	3:B:219:PCW:H121	0.59	1.73	4	1
1:A:250:VAL:O	1:A:254:VAL:HB	0.59	1.97	4	8
1:A:369:GLU:O	1:A:373:GLN:CG	0.59	2.43	1	2
1:C:488:LYS:HD3	3:C:620:PCW:H272	0.59	1.73	6	1
3:C:613:PCW:H382	3:C:613:PCW:H151	0.59	1.73	9	1
3:C:615:PCW:H171	4:C:627:17F:H77	0.59	1.74	2	1
3:B:234:PCW:H252	3:B:234:PCW:H461	0.59	1.73	7	1
2:B:78:PHE:HB2	2:B:111:MET:HG2	0.59	1.73	10	3
3:C:621:PCW:H412	4:C:632:17F:H34	0.59	1.75	10	1
1:C:488:LYS:HD3	3:C:620:PCW:C27	0.59	2.28	6	1
3:A:406:PCW:H321	4:A:407:17F:H32	0.59	1.75	1	1
3:C:617:PCW:H331	3:C:618:PCW:H141	0.59	1.75	10	1
4:B:226:17F:H72	4:B:236:17F:H54	0.59	1.75	4	1
4:B:226:17F:H65	3:C:622:PCW:H482	0.59	1.75	3	1
3:B:206:PCW:H171	4:B:232:17F:H62	0.58	1.75	10	1
1:A:288:ARG:O	1:A:292:HIS:HB2	0.58	1.98	5	3
3:A:405:PCW:H212	3:C:609:PCW:H241	0.58	1.73	6	2
3:B:201:PCW:H262	4:B:230:17F:H65	0.58	1.75	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:605:PCW:H212	4:C:629:17F:H47	0.58	1.75	7	1
3:C:606:PCW:H141	3:C:612:PCW:H152	0.58	1.74	1	1
1:A:330:ARG:O	1:A:334:ARG:HG2	0.58	1.98	4	5
3:A:406:PCW:H121	4:A:407:17F:H20	0.58	1.75	5	1
2:B:114:VAL:HG12	2:B:142:ILE:HB	0.58	1.75	4	3
3:A:401:PCW:H462	3:C:623:PCW:H481	0.58	1.73	2	1
3:C:615:PCW:H422	4:C:632:17F:H47	0.58	1.76	5	2
3:A:401:PCW:H482	3:C:614:PCW:H222	0.58	1.75	3	1
3:B:206:PCW:H51	3:B:211:PCW:H332	0.58	1.75	1	1
3:B:220:PCW:H11	3:B:222:PCW:H322	0.58	1.74	10	1
3:A:405:PCW:H421	4:B:228:17F:H70	0.58	1.73	10	1
3:B:221:PCW:O11	3:C:601:PCW:H362	0.58	1.97	10	1
3:C:604:PCW:H82	4:C:627:17F:HN1A	0.58	1.57	2	1
3:B:202:PCW:H351	3:B:214:PCW:H331	0.58	1.75	4	1
1:C:488:LYS:CE	3:C:620:PCW:H261	0.58	2.28	4	1
3:A:401:PCW:H331	3:A:405:PCW:H211	0.58	1.73	2	1
2:B:36:ILE:HA	2:B:59:ALA:HB2	0.58	1.76	8	2
3:B:221:PCW:H262	1:C:459:PHE:HZ	0.58	1.56	5	1
3:B:204:PCW:H382	3:B:205:PCW:H142	0.58	1.76	3	1
3:B:208:PCW:H361	3:B:222:PCW:H121	0.58	1.74	10	1
1:A:242:GLU:HB3	1:C:532:ARG:HH21	0.58	1.58	5	2
3:B:221:PCW:H272	3:C:601:PCW:C22	0.58	2.29	6	2
2:B:40:TYR:HB2	2:B:55:ILE:HB	0.58	1.75	7	2
3:B:203:PCW:H41	4:B:230:17F:H2	0.58	1.75	8	1
3:A:410:PCW:H332	4:C:630:17F:C1X	0.58	2.25	5	2
3:B:206:PCW:H141	3:B:222:PCW:H362	0.58	1.76	6	1
3:A:401:PCW:H361	3:B:213:PCW:H212	0.58	1.75	1	1
2:B:7:VAL:CG1	7:B:239:EWS:CAT	0.58	2.81	10	2
3:C:606:PCW:H341	3:C:612:PCW:H121	0.58	1.74	6	2
3:A:404:PCW:H152	3:B:225:PCW:H251	0.58	1.76	10	1
3:A:405:PCW:H152	4:B:228:17F:H59	0.58	1.74	1	2
3:A:403:PCW:H381	3:B:218:PCW:H452	0.58	1.74	2	1
3:C:615:PCW:H171	4:C:633:17F:H10	0.57	1.76	9	1
3:B:207:PCW:H483	3:C:601:PCW:C21	0.57	2.29	4	1
3:A:406:PCW:C34	4:B:227:17F:H11	0.57	2.28	8	1
3:B:233:PCW:H422	3:B:233:PCW:H382	0.57	1.76	10	1
3:C:615:PCW:H221	4:C:629:17F:H38	0.57	1.75	9	2
3:B:221:PCW:H51	4:B:229:17F:HN1	0.57	1.58	4	1
3:C:609:PCW:H82	3:C:625:PCW:H2	0.57	1.76	5	1
1:C:523:ASP:HA	1:C:526:ARG:HD2	0.57	1.74	2	3
3:A:403:PCW:H52	4:B:231:17F:HN1	0.57	1.58	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:207:PCW:H212	3:C:601:PCW:H412	0.57	1.76	2	1
4:B:226:17F:H73	4:B:236:17F:H50	0.57	1.74	6	1
4:C:628:17F:H64	4:C:632:17F:H11	0.57	1.75	6	1
4:B:236:17F:H56	3:C:622:PCW:H141	0.57	1.77	7	2
3:B:222:PCW:H52	4:B:227:17F:N1	0.57	2.12	7	1
3:B:210:PCW:H81	4:B:226:17F:O1	0.57	1.99	4	1
3:B:201:PCW:H211	3:B:201:PCW:H152	0.57	1.76	1	1
3:B:212:PCW:H322	4:B:231:17F:H11	0.57	1.75	1	1
3:C:623:PCW:H40	3:C:624:PCW:H211	0.57	1.76	8	1
3:C:620:PCW:C13	4:C:633:17F:H56	0.57	2.24	4	1
1:A:368:LEU:CD1	4:B:230:17F:H54	0.57	2.12	8	1
3:A:405:PCW:H39	3:B:216:PCW:H451	0.57	1.76	3	1
3:C:604:PCW:H31	3:C:625:PCW:H332	0.57	1.76	8	1
3:B:201:PCW:H32	4:B:230:17F:H1A	0.57	1.75	5	1
3:B:201:PCW:H361	4:B:227:17F:H31	0.57	1.77	5	1
3:B:220:PCW:H42	4:B:232:17F:H19A	0.57	1.75	6	1
3:B:210:PCW:H382	3:B:214:PCW:H152	0.57	1.76	5	1
3:A:410:PCW:C31	4:C:630:17F:H11	0.57	2.29	7	1
2:B:170:MET:SD	3:B:211:PCW:H42	0.57	2.40	7	1
3:A:405:PCW:H162	3:C:609:PCW:H252	0.57	1.75	3	2
3:C:607:PCW:H262	3:C:615:PCW:H452	0.57	1.75	4	1
1:C:491:GLU:HG2	1:C:495:LYS:HE3	0.57	1.75	3	1
3:B:220:PCW:H12	3:B:222:PCW:H322	0.57	1.77	1	1
1:A:368:LEU:HD11	4:B:230:17F:C30	0.57	2.12	8	1
1:A:334:ARG:HD2	1:C:440:GLU:OE1	0.57	1.99	3	6
1:C:491:GLU:HB3	1:C:495:LYS:HE2	0.57	1.76	7	5
3:B:213:PCW:H221	3:B:213:PCW:H441	0.57	1.77	5	1
4:B:229:17F:H54	3:C:607:PCW:H241	0.57	1.76	6	1
3:B:207:PCW:H352	3:B:216:PCW:H421	0.57	1.77	10	1
3:B:204:PCW:H12	3:B:212:PCW:O2P	0.57	2.00	7	1
3:B:234:PCW:H39	3:C:602:PCW:H283	0.57	1.77	7	1
3:B:213:PCW:H31	3:B:213:PCW:O1P	0.57	2.00	4	1
4:B:229:17F:H75	4:C:629:17F:H54	0.57	1.75	2	1
4:C:627:17F:H10A	4:C:629:17F:H31	0.57	1.76	3	1
3:B:209:PCW:H472	4:B:228:17F:H68	0.56	1.75	10	1
3:B:202:PCW:H182	3:B:215:PCW:H242	0.56	1.77	6	1
3:B:208:PCW:H62	3:B:219:PCW:H41	0.56	1.76	9	1
1:A:308:ARG:HD3	1:C:469:LEU:CG	0.56	2.30	7	1
1:A:352:LYS:NZ	1:C:425:GLU:HB2	0.56	2.15	3	1
3:A:405:PCW:H182	3:C:609:PCW:H252	0.56	1.77	8	1
1:C:512:ASP:HA	1:C:515:ARG:HD2	0.56	1.77	5	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:206:PCW:H461	4:B:226:17F:H78	0.56	1.74	4	1
3:C:601:PCW:H483	3:C:605:PCW:C47	0.56	2.29	10	1
3:B:217:PCW:H432	3:B:223:PCW:C45	0.56	2.20	5	1
3:B:201:PCW:H11	4:B:230:17F:N1	0.56	2.15	5	1
3:B:209:PCW:H442	4:B:232:17F:H43	0.56	1.75	9	1
3:C:619:PCW:H381	3:C:619:PCW:H151	0.56	1.76	1	2
3:A:409:PCW:H461	3:C:613:PCW:H172	0.56	1.76	2	1
3:B:221:PCW:H342	4:B:229:17F:H19	0.56	1.77	2	1
1:A:393:TYR:CE1	3:A:406:PCW:H283	0.56	2.34	2	1
3:A:408:PCW:H73	3:A:410:PCW:O1P	0.56	2.00	1	1
3:B:214:PCW:H262	4:C:633:17F:H48	0.56	1.77	1	1
1:C:451:LYS:O	1:C:455:TYR:HB2	0.56	1.99	8	6
3:B:207:PCW:C7	4:B:228:17F:HN1	0.56	2.13	4	1
3:A:404:PCW:H352	3:B:225:PCW:H132	0.56	1.77	2	1
3:B:201:PCW:C37	4:B:228:17F:H37	0.56	2.29	10	1
3:C:603:PCW:H40	4:C:628:17F:H6	0.56	1.77	2	1
3:B:203:PCW:H151	3:B:213:PCW:H372	0.56	1.76	3	1
3:B:216:PCW:H71	4:B:229:17F:H19	0.56	1.78	9	1
3:C:623:PCW:H381	3:C:623:PCW:H122	0.56	1.76	9	1
1:C:488:LYS:NZ	3:C:620:PCW:C25	0.56	2.68	4	1
4:B:228:17F:H62	3:C:624:PCW:H481	0.56	1.76	2	1
4:C:630:17F:H4A	4:C:630:17F:O4	0.56	2.00	2	1
3:C:621:PCW:H211	4:C:631:17F:H31	0.56	1.78	3	1
2:B:94:HIS:O	2:B:98:GLU:HG2	0.56	2.00	1	1
3:B:208:PCW:H451	3:B:234:PCW:H241	0.56	1.76	10	1
3:A:409:PCW:H51	4:C:630:17F:HN1A	0.56	1.59	10	1
3:B:209:PCW:H471	3:C:609:PCW:H482	0.56	1.77	5	1
3:C:614:PCW:H472	3:C:614:PCW:H222	0.56	1.78	6	1
1:A:277:GLU:HB2	1:A:278:PRO:HD3	0.56	1.77	2	1
3:C:615:PCW:H40	4:C:632:17F:H55	0.56	1.77	8	1
3:B:221:PCW:H411	3:C:601:PCW:C39	0.56	2.23	10	1
2:B:5:LYS:HD2	7:B:239:EWS:CAX	0.56	2.30	7	1
3:B:216:PCW:O1P	3:B:221:PCW:H73	0.56	2.01	2	1
4:B:236:17F:H30	3:C:622:PCW:H271	0.56	1.77	2	1
3:B:201:PCW:H73	4:B:227:17F:O5	0.56	2.01	3	1
3:B:204:PCW:H142	3:B:212:PCW:H39	0.56	1.76	5	1
3:C:605:PCW:H19	4:C:627:17F:H59	0.56	1.78	7	1
3:C:621:PCW:H442	4:C:632:17F:H37	0.56	1.78	7	1
3:C:611:PCW:H161	3:C:619:PCW:H19	0.56	1.77	4	1
3:B:203:PCW:H40	4:B:228:17F:H11	0.56	1.75	2	1
3:B:204:PCW:H52	3:B:205:PCW:H81	0.56	1.78	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:212:PCW:H81	4:B:231:17F:O2	0.56	2.01	1	1
3:B:210:PCW:H321	4:B:229:17F:H10A	0.56	1.76	10	1
3:C:609:PCW:H372	3:C:624:PCW:H181	0.56	1.77	10	1
3:C:618:PCW:H382	3:C:626:PCW:H171	0.56	1.79	10	2
3:B:209:PCW:H442	4:B:228:17F:H61	0.56	1.78	4	1
2:B:72:MET:HG3	7:B:239:EWS:BRA	0.56	2.56	3	1
4:B:227:17F:H44	3:C:613:PCW:H241	0.56	1.78	1	1
3:A:404:PCW:H222	4:C:631:17F:H50	0.56	1.78	1	1
3:B:209:PCW:H131	3:B:216:PCW:H152	0.55	1.78	10	1
1:C:508:ARG:O	1:C:512:ASP:HB2	0.55	2.01	9	3
3:B:201:PCW:H212	4:B:230:17F:H58	0.55	1.78	6	1
3:B:210:PCW:H211	3:B:214:PCW:H40	0.55	1.77	3	1
3:C:620:PCW:H322	4:C:633:17F:H77	0.55	1.77	1	1
2:B:79:LEU:HD23	2:B:112:VAL:HB	0.55	1.78	9	2
4:B:230:17F:H1	4:B:230:17F:C4	0.55	2.24	9	1
3:B:216:PCW:H52	4:B:229:17F:HN1	0.55	1.60	3	1
3:B:203:PCW:H151	3:B:213:PCW:H39	0.55	1.78	1	1
2:B:56:LEU:CD2	7:B:239:EWS:CAR	0.55	2.84	8	1
3:B:208:PCW:H381	3:B:222:PCW:H141	0.55	1.78	10	1
3:B:201:PCW:H422	3:B:220:PCW:H441	0.55	1.76	8	1
1:C:444:ASP:O	1:C:448:VAL:HB	0.55	2.02	3	2
3:B:221:PCW:C27	3:C:601:PCW:H221	0.55	2.26	2	2
3:C:601:PCW:H482	3:C:605:PCW:C48	0.55	2.25	10	1
3:B:218:PCW:H73	4:B:231:17F:HN1A	0.55	1.59	6	1
4:B:230:17F:H74	3:C:611:PCW:H222	0.55	1.79	2	1
3:B:212:PCW:H362	4:B:231:17F:H10A	0.55	1.78	5	2
3:B:204:PCW:H412	3:B:205:PCW:H151	0.55	1.79	6	1
4:B:228:17F:H53	3:C:624:PCW:H271	0.55	1.78	9	1
3:B:210:PCW:H61	4:B:229:17F:H2	0.55	1.77	2	1
1:A:393:TYR:CE1	3:A:411:PCW:H272	0.55	2.35	3	1
1:A:345:ARG:HA	1:C:429:ASN:HD21	0.55	1.61	3	2
3:C:606:PCW:H351	3:C:612:PCW:H381	0.55	1.78	7	1
3:A:405:PCW:H283	3:C:609:PCW:H261	0.55	1.79	4	1
1:C:478:ARG:O	1:C:482:GLN:HB2	0.55	2.02	4	2
3:A:406:PCW:H331	4:A:407:17F:H32	0.55	1.79	5	2
3:C:604:PCW:H51	4:C:627:17F:HN1A	0.55	1.61	1	2
1:A:352:LYS:NZ	1:C:425:GLU:HB3	0.55	2.17	4	1
3:B:218:PCW:H41	4:B:231:17F:O1	0.55	2.01	3	1
3:B:206:PCW:H51	3:B:206:PCW:H31	0.55	1.78	6	1
3:B:213:PCW:H121	4:B:228:17F:H6	0.55	1.79	6	1
3:C:611:PCW:H412	3:C:611:PCW:H19	0.55	1.78	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:603:PCW:H39	4:C:628:17F:H6	0.55	1.78	4	1
3:C:605:PCW:H82	3:C:607:PCW:H142	0.55	1.78	1	2
3:A:404:PCW:H282	3:C:618:PCW:H412	0.55	1.78	3	1
3:B:221:PCW:H141	3:C:601:PCW:H332	0.55	1.79	2	1
3:B:203:PCW:O31	4:B:230:17F:H6	0.54	2.02	6	2
3:C:609:PCW:H382	3:C:624:PCW:H422	0.54	1.78	10	1
3:C:605:PCW:H172	4:C:629:17F:H18	0.54	1.78	5	1
3:B:214:PCW:H441	3:B:217:PCW:H251	0.54	1.78	4	1
2:B:6:LEU:HD22	2:B:159:LEU:HD23	0.54	1.79	1	2
3:A:405:PCW:H132	3:A:405:PCW:H331	0.54	1.78	1	1
3:B:216:PCW:H411	3:B:224:PCW:H222	0.54	1.80	5	1
3:B:217:PCW:H281	4:C:632:17F:H70	0.54	1.79	7	2
3:B:217:PCW:H272	4:C:632:17F:H38	0.54	1.79	4	1
3:C:618:PCW:H431	3:C:618:PCW:H162	0.54	1.78	2	1
3:B:204:PCW:O2P	3:B:222:PCW:H71	0.54	2.01	1	1
3:C:607:PCW:H261	3:C:615:PCW:H432	0.54	1.78	8	1
3:B:204:PCW:H352	3:B:222:PCW:H161	0.54	1.79	5	1
4:B:231:17F:H33	4:B:231:17F:H8	0.54	1.80	5	1
1:C:502:GLU:HG2	1:C:506:ARG:HE	0.54	1.63	3	2
1:A:349:TYR:HE2	3:A:401:PCW:C26	0.54	2.10	7	1
1:C:458:ASP:HA	1:C:461:LYS:HE3	0.54	1.78	4	1
1:C:488:LYS:HZ1	3:C:620:PCW:C25	0.54	2.15	4	1
3:B:201:PCW:H122	4:B:227:17F:H18A	0.54	1.78	3	1
2:B:62:GLU:HG2	2:B:68:ARG:HD3	0.54	1.77	1	1
3:B:201:PCW:H32	4:B:227:17F:N1	0.54	2.17	8	1
3:C:621:PCW:H411	4:C:632:17F:H34	0.54	1.80	4	2
3:C:614:PCW:H381	3:C:614:PCW:H171	0.54	1.80	9	2
3:A:408:PCW:H171	3:A:411:PCW:H152	0.54	1.80	1	1
3:A:408:PCW:H2	3:A:410:PCW:H332	0.54	1.78	10	1
3:B:210:PCW:H162	3:B:214:PCW:H361	0.54	1.78	10	1
3:B:211:PCW:H121	4:B:226:17F:H18	0.54	1.80	6	1
3:C:613:PCW:H132	3:C:619:PCW:H382	0.54	1.78	2	2
3:B:223:PCW:H481	4:C:631:17F:H61	0.54	1.78	9	1
4:C:632:17F:H61	4:C:633:17F:H71	0.54	1.77	9	1
1:A:332:ALA:O	1:A:336:GLU:HB2	0.54	2.03	1	1
3:B:211:PCW:H332	4:B:226:17F:O10	0.54	2.02	5	1
3:A:406:PCW:H362	4:A:407:17F:H56	0.54	1.79	6	1
3:B:224:PCW:H83	4:B:226:17F:H4A	0.54	1.79	2	1
3:B:210:PCW:H422	4:B:229:17F:H72	0.54	1.80	1	1
1:C:492:LEU:HD11	3:C:620:PCW:H482	0.54	1.79	10	1
3:B:214:PCW:H241	4:C:633:17F:H52	0.54	1.79	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:610:PCW:H20	3:C:616:PCW:H483	0.54	1.78	1	1
1:A:325:ASP:HA	1:A:328:ARG:HD2	0.54	1.79	8	2
3:B:203:PCW:H281	3:C:611:PCW:H242	0.54	1.80	8	1
1:A:341:ASN:ND2	1:C:433:GLU:HA	0.54	2.17	5	1
3:C:605:PCW:H2	3:C:605:PCW:O2P	0.54	2.02	5	1
1:A:393:TYR:HB3	3:A:406:PCW:H281	0.54	1.79	3	1
1:A:308:ARG:CB	1:C:469:LEU:CD1	0.54	2.84	10	1
3:A:403:PCW:C38	3:B:218:PCW:C47	0.54	2.63	1	1
4:C:627:17F:H66	4:C:629:17F:H55	0.54	1.80	8	1
3:B:203:PCW:H362	3:B:213:PCW:H381	0.54	1.79	3	3
4:C:627:17F:H71	4:C:629:17F:H53	0.54	1.80	4	1
1:C:465:GLU:HB3	1:C:469:LEU:HD11	0.53	1.80	4	2
3:B:214:PCW:H282	3:C:615:PCW:H432	0.53	1.80	6	1
3:C:606:PCW:H172	3:C:616:PCW:H411	0.53	1.80	4	1
2:B:8:VAL:HG22	2:B:79:LEU:HD12	0.53	1.81	2	1
3:B:201:PCW:H361	3:B:220:PCW:C35	0.53	2.25	10	1
1:A:244:SER:O	1:A:248:GLU:HB2	0.53	2.03	6	1
3:C:607:PCW:H372	3:C:615:PCW:H412	0.53	1.79	3	2
3:B:219:PCW:H472	3:B:223:PCW:H431	0.53	1.80	7	1
1:C:544:LEU:O	1:C:548:HIS:HB2	0.53	2.03	3	1
3:B:221:PCW:H141	3:C:601:PCW:C37	0.53	2.32	8	1
1:C:546:GLU:O	1:C:550:LYS:HD2	0.53	2.03	10	2
3:B:220:PCW:H352	3:B:220:PCW:H152	0.53	1.79	9	1
1:C:514:LEU:HA	1:C:517:HIS:HB2	0.53	1.80	7	1
3:B:209:PCW:H131	3:B:216:PCW:H142	0.53	1.78	3	1
3:B:213:PCW:H72	4:B:230:17F:O1	0.53	2.04	8	2
1:C:528:ARG:HB3	1:C:532:ARG:NH2	0.53	2.16	10	2
3:C:611:PCW:H332	3:C:623:PCW:H411	0.53	1.79	6	1
3:C:607:PCW:H372	3:C:615:PCW:H411	0.53	1.79	9	1
3:B:201:PCW:H351	3:B:220:PCW:H342	0.53	1.81	2	1
3:B:215:PCW:H83	3:B:217:PCW:P	0.53	2.44	4	1
1:C:473:LYS:O	1:C:477:LEU:HB2	0.53	2.03	4	2
3:C:603:PCW:H411	4:C:628:17F:H9A	0.53	1.80	1	1
3:B:223:PCW:H281	1:C:521:TYR:OH	0.53	2.03	10	1
3:C:611:PCW:H422	3:C:624:PCW:H271	0.53	1.79	3	1
3:B:201:PCW:H32	4:B:227:17F:HN1A	0.53	1.64	8	1
3:B:213:PCW:H82	3:B:213:PCW:H322	0.53	1.80	7	1
4:B:226:17F:H71	3:C:622:PCW:H483	0.53	1.80	4	1
1:C:495:LYS:O	1:C:499:LEU:HB2	0.53	2.04	2	5
1:A:308:ARG:HG3	1:C:469:LEU:HD13	0.53	1.76	10	1
3:B:211:PCW:H121	4:B:226:17F:C18	0.53	2.34	6	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:409:PCW:H412	3:C:619:PCW:H412	0.53	1.79	4	1
3:A:404:PCW:H12	3:B:218:PCW:H352	0.53	1.80	2	1
3:B:207:PCW:H71	4:B:228:17F:H1	0.53	1.81	10	1
3:B:210:PCW:H362	3:B:214:PCW:H161	0.53	1.79	5	1
1:C:469:LEU:O	1:C:473:LYS:HB2	0.53	2.03	6	1
3:B:215:PCW:H83	3:B:217:PCW:H11	0.53	1.80	7	1
3:B:201:PCW:H381	4:B:227:17F:H56	0.52	1.79	6	1
3:A:405:PCW:H142	3:C:609:PCW:H271	0.52	1.82	6	1
3:C:608:PCW:H31	4:C:631:17F:H4A	0.52	1.81	1	3
4:B:236:17F:H72	4:B:236:17F:H40	0.52	1.80	7	1
2:B:170:MET:SD	3:B:208:PCW:H61	0.52	2.45	10	1
4:B:236:17F:H70	3:C:603:PCW:H282	0.52	1.81	6	1
4:B:232:17F:H70	3:B:233:PCW:H281	0.52	1.81	7	1
3:B:206:PCW:H231	3:B:220:PCW:H422	0.52	1.81	4	1
3:B:235:PCW:H341	3:C:623:PCW:H331	0.52	1.82	4	1
3:B:216:PCW:H462	3:C:604:PCW:H481	0.52	1.79	2	1
3:C:611:PCW:H283	3:C:614:PCW:H441	0.52	1.81	3	1
3:B:221:PCW:H461	3:C:605:PCW:H242	0.52	1.80	5	1
1:A:388:SER:HB3	1:C:594:LYS:HE2	0.52	1.81	6	1
3:B:222:PCW:H40	3:B:234:PCW:H252	0.52	1.81	4	1
3:B:206:PCW:H19	4:B:226:17F:H37	0.52	1.82	4	1
3:B:210:PCW:H151	3:B:217:PCW:H141	0.52	1.80	8	1
3:B:201:PCW:H351	3:B:220:PCW:C34	0.52	2.33	5	1
4:C:630:17F:H4A	4:C:630:17F:H2	0.52	1.80	6	1
3:B:221:PCW:H51	4:B:229:17F:H1	0.52	1.81	7	1
4:C:628:17F:H5	4:C:632:17F:H1A	0.52	1.82	10	2
3:C:603:PCW:O1P	3:C:605:PCW:H72	0.52	2.03	5	1
3:A:406:PCW:H361	4:B:227:17F:H11	0.52	1.81	9	2
3:C:614:PCW:H412	3:C:614:PCW:H172	0.52	1.81	8	1
3:C:618:PCW:O3	3:C:626:PCW:H161	0.52	2.04	5	1
3:A:406:PCW:H452	3:A:409:PCW:H282	0.52	1.81	6	1
1:A:310:ARG:O	1:A:314:ASP:HB2	0.52	2.05	7	2
3:B:233:PCW:H141	3:B:233:PCW:H371	0.52	1.80	1	1
3:B:221:PCW:C15	3:C:601:PCW:H351	0.52	2.35	8	1
3:B:221:PCW:H161	3:C:601:PCW:C40	0.52	2.28	10	1
3:B:207:PCW:H211	3:B:209:PCW:H272	0.52	1.81	5	1
3:A:405:PCW:H162	3:C:609:PCW:H271	0.52	1.79	6	1
3:B:233:PCW:H122	3:B:233:PCW:H351	0.52	1.81	8	2
3:A:406:PCW:H452	3:C:613:PCW:H221	0.52	1.82	8	1
3:A:410:PCW:C12	4:C:630:17F:H30	0.52	2.35	8	3
2:B:30:ASP:HA	5:B:237:GNP:H3'	0.52	1.81	10	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:211:PCW:H151	4:B:229:17F:H12	0.52	1.80	10	1
3:A:405:PCW:H331	3:B:209:PCW:H351	0.52	1.81	6	1
3:C:603:PCW:H431	3:C:607:PCW:H321	0.52	1.81	7	1
3:A:409:PCW:H211	3:C:613:PCW:H161	0.52	1.81	7	1
4:B:232:17F:H54	3:C:624:PCW:H241	0.52	1.81	3	1
3:C:609:PCW:H382	3:C:624:PCW:H381	0.52	1.81	3	1
3:C:621:PCW:H481	3:C:622:PCW:H481	0.52	1.82	8	2
2:B:7:VAL:HG11	7:B:239:EWS:CAS	0.52	2.35	10	1
3:B:219:PCW:O31	3:B:225:PCW:H41	0.52	2.05	5	1
1:C:488:LYS:HZ2	3:C:620:PCW:C27	0.52	2.18	4	1
3:C:607:PCW:H261	3:C:615:PCW:H431	0.52	1.82	2	1
4:B:227:17F:H44	3:C:613:PCW:C24	0.52	2.35	1	1
3:B:206:PCW:H32	3:B:208:PCW:O1P	0.52	2.05	10	2
3:A:401:PCW:H472	3:C:611:PCW:H242	0.52	1.81	5	1
3:B:201:PCW:H212	4:B:230:17F:H59	0.52	1.82	9	1
3:C:606:PCW:H431	3:C:612:PCW:H162	0.52	1.82	1	1
3:B:207:PCW:H162	3:B:209:PCW:H181	0.51	1.81	6	1
1:C:595:LEU:CD1	4:C:630:17F:H55	0.51	2.35	1	2
3:B:201:PCW:C1	4:B:230:17F:HN1	0.51	2.17	7	1
3:B:216:PCW:H42	4:B:229:17F:C1	0.51	2.34	2	1
3:A:403:PCW:H71	4:B:231:17F:N1	0.51	2.19	6	1
3:B:212:PCW:H171	4:B:231:17F:H34	0.51	1.82	9	1
2:B:16:LYS:HB2	5:B:237:GNP:O2B	0.51	2.05	2	1
3:C:603:PCW:H61	3:C:625:PCW:H251	0.51	1.82	8	1
3:B:224:PCW:H142	4:B:232:17F:H9	0.51	1.81	6	1
3:C:605:PCW:H221	4:C:629:17F:H52	0.51	1.83	6	1
1:A:349:TYR:CD2	3:A:401:PCW:H262	0.51	2.35	7	1
3:B:206:PCW:H442	4:B:226:17F:H70	0.51	1.80	2	1
3:A:410:PCW:H121	4:C:630:17F:C1X	0.51	2.35	1	1
3:B:201:PCW:H40	3:C:623:PCW:H242	0.51	1.81	1	1
3:A:406:PCW:H342	4:B:227:17F:C9	0.51	2.35	1	1
3:B:211:PCW:H131	3:B:217:PCW:H82	0.51	1.83	8	2
3:A:406:PCW:H472	4:B:227:17F:H41	0.51	1.83	5	1
1:C:417:GLU:O	1:C:421:PRO:HD2	0.51	2.05	2	2
3:A:404:PCW:H462	3:B:225:PCW:H232	0.51	1.81	9	1
3:A:401:PCW:O1P	3:A:405:PCW:H11	0.51	2.06	3	1
3:B:221:PCW:H41	4:B:229:17F:O1	0.51	2.06	1	2
3:B:222:PCW:H483	3:C:622:PCW:H181	0.51	1.82	1	1
3:C:618:PCW:H431	3:C:626:PCW:H19	0.51	1.81	10	1
3:B:224:PCW:H281	3:B:233:PCW:H283	0.51	1.81	6	1
3:A:406:PCW:H132	4:A:407:17F:H20A	0.51	1.83	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
4:B:232:17F:H4	4:B:232:17F:HN1	0.51	1.65	9	1
1:C:489:LEU:O	1:C:493:GLN:HB2	0.51	2.06	9	1
3:A:404:PCW:H172	3:B:225:PCW:H381	0.51	1.83	7	1
3:B:204:PCW:H422	3:B:205:PCW:H172	0.51	1.81	2	1
3:B:206:PCW:H332	3:B:211:PCW:H321	0.51	1.82	1	1
3:C:620:PCW:H322	4:C:633:17F:C42	0.51	2.36	1	1
3:B:211:PCW:H122	4:B:226:17F:C19	0.51	2.36	10	1
2:B:71:TYR:CD2	7:B:239:EWS:CAO	0.51	2.94	10	1
3:A:410:PCW:O2P	3:A:411:PCW:H52	0.51	2.06	1	3
4:C:628:17F:H18A	4:C:628:17F:H9	0.51	1.82	9	1
3:A:403:PCW:H362	3:B:218:PCW:H451	0.51	1.82	1	1
3:B:202:PCW:H442	3:B:215:PCW:H283	0.51	1.82	1	1
3:B:212:PCW:H121	4:B:231:17F:H6A	0.51	1.83	10	1
3:C:621:PCW:H461	4:C:632:17F:H35	0.51	1.83	5	1
3:A:408:PCW:H422	3:B:205:PCW:H452	0.51	1.82	6	1
3:B:211:PCW:H82	3:B:219:PCW:C32	0.51	2.35	4	1
1:C:447:GLU:O	1:C:451:LYS:HB2	0.51	2.06	5	2
3:B:220:PCW:H251	4:B:232:17F:H76	0.51	1.82	9	1
3:B:201:PCW:H42	4:B:230:17F:H2	0.51	1.83	7	1
3:C:618:PCW:H342	3:C:626:PCW:H371	0.51	1.82	4	1
3:C:615:PCW:C18	4:C:633:17F:H12	0.51	2.36	2	1
3:A:405:PCW:H141	3:A:405:PCW:H361	0.51	1.83	3	1
3:A:404:PCW:H231	3:B:225:PCW:H422	0.51	1.82	10	1
1:C:492:LEU:CD1	3:C:620:PCW:H482	0.51	2.36	10	1
4:B:236:17F:H34	4:B:236:17F:H10A	0.51	1.82	5	1
4:B:228:17F:H8	4:B:232:17F:H9A	0.51	1.82	9	2
3:B:219:PCW:H471	3:B:223:PCW:H432	0.51	1.83	4	1
3:A:410:PCW:H352	4:C:630:17F:H29	0.51	1.82	2	1
2:B:43:GLN:OE1	3:B:202:PCW:H62	0.51	2.06	2	1
3:B:220:PCW:H83	3:B:222:PCW:H321	0.51	1.82	7	1
3:B:213:PCW:H141	4:B:228:17F:H9	0.50	1.82	9	1
3:C:603:PCW:H242	4:C:632:17F:H53	0.50	1.82	9	1
3:B:202:PCW:H212	3:B:215:PCW:H232	0.50	1.83	4	1
3:A:409:PCW:H471	3:C:613:PCW:H182	0.50	1.83	1	1
3:A:405:PCW:H232	3:C:609:PCW:H261	0.50	1.81	8	1
1:A:239:LEU:O	1:A:243:MET:HB2	0.50	2.06	5	1
3:A:404:PCW:H32	3:B:218:PCW:H372	0.50	1.83	5	1
1:A:275:LYS:O	1:A:279:LEU:HB2	0.50	2.07	9	1
4:B:236:17F:H57	3:C:622:PCW:H161	0.50	1.83	9	1
3:C:601:PCW:C39	4:C:627:17F:H54	0.50	2.36	4	1
3:A:409:PCW:H372	3:B:235:PCW:H371	0.50	1.84	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:421:PRO:O	1:C:425:GLU:HG2	0.50	2.06	5	1
3:B:203:PCW:H132	3:B:213:PCW:H351	0.50	1.84	9	1
3:B:220:PCW:H212	3:B:235:PCW:H262	0.50	1.82	4	1
4:C:632:17F:H61	4:C:633:17F:H69	0.50	1.83	8	1
2:B:72:MET:SD	7:B:239:EWS:BRA	0.50	3.24	10	1
3:B:212:PCW:H261	3:B:212:PCW:H462	0.50	1.83	6	1
3:B:233:PCW:H242	3:C:609:PCW:H441	0.50	1.83	6	1
1:C:414:LYS:HA	1:C:417:GLU:HG3	0.50	1.82	9	1
3:C:603:PCW:H332	3:C:607:PCW:H121	0.50	1.81	9	1
3:B:214:PCW:H283	4:C:633:17F:H52	0.50	1.82	7	1
3:B:203:PCW:H431	4:B:228:17F:H12A	0.50	1.83	3	1
3:A:403:PCW:H342	3:B:212:PCW:H272	0.50	1.83	1	1
1:C:492:LEU:HD13	3:C:620:PCW:H441	0.50	1.84	8	1
3:B:209:PCW:H31	3:B:224:PCW:H132	0.50	1.83	7	2
1:C:491:GLU:O	1:C:495:LYS:HG3	0.50	2.06	5	5
3:B:204:PCW:H32	3:B:208:PCW:C1	0.50	2.36	5	1
3:A:403:PCW:H412	3:B:218:PCW:H462	0.50	1.84	5	1
3:B:202:PCW:H181	3:B:215:PCW:H242	0.50	1.83	9	1
3:A:404:PCW:H81	3:B:225:PCW:O2P	0.50	2.06	7	1
3:B:207:PCW:H441	3:B:209:PCW:H241	0.50	1.82	4	1
1:A:279:LEU:HB3	1:C:495:LYS:HE3	0.50	1.83	2	1
3:A:406:PCW:H342	4:B:227:17F:H9	0.50	1.84	1	1
3:B:210:PCW:H152	3:B:214:PCW:H352	0.50	1.84	6	1
1:C:525:LEU:HD23	1:C:528:ARG:HD2	0.50	1.83	6	1
3:B:208:PCW:H441	3:B:234:PCW:H262	0.50	1.84	7	1
3:B:209:PCW:H83	4:B:228:17F:N1	0.50	2.21	2	1
3:C:621:PCW:H483	4:C:632:17F:H35	0.50	1.84	1	1
3:C:607:PCW:H283	4:C:632:17F:H52	0.50	1.84	1	1
3:C:605:PCW:H162	4:C:627:17F:H34	0.50	1.82	8	1
3:B:222:PCW:H332	3:B:222:PCW:H131	0.50	1.82	5	1
3:C:615:PCW:H182	4:C:629:17F:H42	0.50	1.83	5	1
3:C:601:PCW:H212	3:C:601:PCW:H483	0.50	1.83	7	1
1:A:276:VAL:O	1:A:280:ARG:HB2	0.50	2.07	2	2
4:A:407:17F:H10A	3:B:205:PCW:H361	0.50	1.83	2	1
3:C:606:PCW:H431	3:C:612:PCW:H172	0.50	1.82	3	1
3:B:222:PCW:H351	3:B:222:PCW:H131	0.50	1.83	5	1
3:B:209:PCW:O11	3:B:216:PCW:H131	0.50	2.07	6	1
2:B:84:ILE:HD11	2:B:118:CYS:HA	0.50	1.84	3	3
3:A:410:PCW:O3	4:C:630:17F:H30	0.50	2.05	7	2
3:C:615:PCW:H221	4:C:629:17F:H42	0.50	1.83	1	1
3:B:205:PCW:H461	3:B:205:PCW:H221	0.50	1.84	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:203:PCW:H481	4:B:228:17F:H20	0.50	1.84	6	2
3:B:204:PCW:H52	3:B:205:PCW:H61	0.50	1.82	3	1
3:B:211:PCW:H352	4:B:226:17F:O10	0.50	2.06	3	1
3:B:214:PCW:H281	4:C:627:17F:H75	0.50	1.84	3	1
3:A:403:PCW:H342	3:B:212:PCW:C27	0.50	2.37	1	1
3:A:408:PCW:H322	3:C:610:PCW:H371	0.49	1.84	8	1
3:C:607:PCW:H352	3:C:615:PCW:H381	0.49	1.83	8	1
3:A:409:PCW:H262	3:C:613:PCW:H181	0.49	1.83	8	1
3:C:606:PCW:H361	3:C:612:PCW:H152	0.49	1.84	7	3
1:A:363:LYS:HD3	1:C:411:THR:HG23	0.49	1.84	9	2
1:A:312:HIS:HE1	1:C:465:GLU:HB2	0.49	1.66	9	4
3:B:219:PCW:H351	3:B:225:PCW:H351	0.49	1.84	7	1
3:B:234:PCW:H141	3:C:602:PCW:H461	0.49	1.82	7	1
1:C:485:ALA:HB1	3:C:620:PCW:H271	0.49	1.82	7	1
1:A:279:LEU:HD22	1:C:495:LYS:HE2	0.49	1.83	3	1
3:A:409:PCW:C6	4:C:630:17F:HN1A	0.49	2.20	3	1
4:B:227:17F:H33	4:B:227:17F:H10	0.49	1.84	8	2
3:B:201:PCW:H82	3:B:222:PCW:O2P	0.49	2.07	4	1
3:B:209:PCW:H19	3:B:216:PCW:H211	0.49	1.82	1	1
1:A:365:LYS:O	1:A:369:GLU:HB2	0.49	2.06	8	1
3:B:221:PCW:C13	3:C:601:PCW:C35	0.49	2.67	10	1
3:C:607:PCW:H471	4:C:633:17F:H39	0.49	1.84	9	2
3:B:225:PCW:H282	3:C:626:PCW:H481	0.49	1.82	1	1
3:B:211:PCW:H231	4:B:229:17F:H44	0.49	1.83	8	1
4:A:407:17F:H37	3:B:222:PCW:C3	0.49	2.36	5	1
4:B:236:17F:H76	4:B:236:17F:H47	0.49	1.85	5	1
1:A:308:ARG:HD2	1:C:465:GLU:OE1	0.49	2.08	6	1
3:B:212:PCW:H151	4:B:231:17F:H10	0.49	1.83	6	1
3:A:402:PCW:H122	4:B:231:17F:H76	0.49	1.82	9	1
3:A:406:PCW:H121	4:A:407:17F:H20A	0.49	1.84	4	1
1:A:338:LEU:O	1:A:342:GLY:HA3	0.49	2.08	3	2
3:B:201:PCW:H42	4:B:232:17F:N1	0.49	2.22	2	1
3:A:410:PCW:H352	4:C:630:17F:C1X	0.49	2.37	2	1
3:B:223:PCW:C28	1:C:521:TYR:OH	0.49	2.61	10	1
3:A:405:PCW:H461	3:C:609:PCW:H20	0.49	1.83	10	1
3:B:204:PCW:H121	3:B:208:PCW:H352	0.49	1.82	5	1
2:B:7:VAL:HG13	7:B:239:EWS:CAU	0.49	2.38	5	1
3:A:402:PCW:C32	3:B:205:PCW:H32	0.49	2.37	6	1
2:B:5:LYS:HG2	2:B:54:ASP:HB3	0.49	1.83	6	1
3:C:606:PCW:H381	3:C:612:PCW:H162	0.49	1.85	6	2
2:B:15:GLY:HA2	5:B:237:GNP:O2B	0.49	2.07	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:214:PCW:H261	3:C:615:PCW:H472	0.49	1.83	7	1
1:A:314:ASP:HA	1:A:317:ARG:HD2	0.49	1.82	2	3
3:B:221:PCW:P	3:C:601:PCW:H63	0.49	2.48	4	1
3:A:409:PCW:H82	4:C:630:17F:N1	0.49	2.23	2	1
3:C:607:PCW:H482	4:C:633:17F:H42	0.49	1.83	2	1
1:A:301:LEU:HB3	1:C:473:LYS:HE2	0.49	1.84	1	1
3:C:607:PCW:H272	3:C:615:PCW:H451	0.49	1.85	10	1
1:C:574:LEU:O	1:C:578:GLU:HG3	0.49	2.07	6	1
4:B:236:17F:H11A	3:C:622:PCW:H272	0.49	1.85	3	1
3:A:406:PCW:H322	4:B:227:17F:H6A	0.49	1.83	1	1
4:B:226:17F:H39	4:C:628:17F:H55	0.49	1.83	8	1
2:B:5:LYS:CG	7:B:239:EWS:CAX	0.49	2.91	8	1
1:C:489:LEU:O	1:C:493:GLN:HG3	0.49	2.08	5	1
2:B:116:ASN:HA	2:B:144:THR:O	0.49	2.08	7	2
3:B:211:PCW:H151	4:B:226:17F:H20	0.49	1.83	4	1
3:B:210:PCW:H142	3:B:214:PCW:H162	0.49	1.84	1	1
2:B:6:LEU:O	7:B:239:EWS:NAW	0.49	2.46	1	1
3:B:207:PCW:H242	3:B:216:PCW:H182	0.49	1.84	2	1
3:B:202:PCW:H231	3:B:215:PCW:H242	0.49	1.85	2	1
1:C:488:LYS:HG2	3:C:620:PCW:C28	0.49	2.36	3	1
3:B:221:PCW:H212	4:C:627:17F:H54	0.49	1.84	10	1
4:C:627:17F:H68	4:C:629:17F:H53	0.49	1.84	10	1
3:A:402:PCW:H11	3:B:212:PCW:H31	0.49	1.84	6	1
3:C:615:PCW:C19	4:C:633:17F:H12	0.49	2.38	4	2
3:C:601:PCW:H171	3:C:601:PCW:H461	0.49	1.84	2	1
3:B:215:PCW:H461	4:C:632:17F:H75	0.49	1.85	3	1
1:C:466:GLU:OE1	1:C:469:LEU:CD1	0.49	2.58	1	1
3:B:210:PCW:H121	3:B:214:PCW:H341	0.49	1.85	10	1
3:B:214:PCW:H232	4:B:229:17F:H50	0.49	1.83	10	1
1:C:517:HIS:O	1:C:521:TYR:HB2	0.49	2.07	7	3
3:B:221:PCW:H242	3:C:601:PCW:H172	0.49	1.85	2	1
3:B:202:PCW:H71	3:B:217:PCW:H31	0.49	1.85	1	1
3:C:615:PCW:H212	4:C:629:17F:H42	0.48	1.84	8	1
4:A:407:17F:H50	3:C:613:PCW:H283	0.48	1.84	10	1
3:A:406:PCW:C16	4:A:407:17F:H33	0.48	2.38	6	1
3:C:612:PCW:H242	3:C:612:PCW:H422	0.48	1.84	6	1
1:A:336:GLU:HA	1:A:339:LYS:HE3	0.48	1.85	7	1
2:B:143:GLU:O	2:B:151:GLY:HA3	0.48	2.08	7	1
3:B:207:PCW:H83	4:B:228:17F:HN1A	0.48	1.64	3	1
1:A:268:GLU:O	1:A:272:TYR:HB2	0.48	2.08	2	3
4:B:228:17F:O8	4:B:232:17F:H6A	0.48	2.08	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:204:PCW:H141	3:B:208:PCW:H371	0.48	1.85	7	1
3:C:604:PCW:H31	3:C:625:PCW:H341	0.48	1.86	7	1
3:C:605:PCW:H261	4:C:629:17F:H66	0.48	1.85	4	1
4:B:231:17F:H61	4:B:231:17F:H12A	0.48	1.85	3	1
4:B:236:17F:H77	3:C:603:PCW:H272	0.48	1.85	1	1
3:A:405:PCW:H2	4:B:228:17F:H19	0.48	1.84	6	1
4:A:407:17F:H44	3:B:220:PCW:H421	0.48	1.85	6	1
3:C:626:PCW:O31	3:C:626:PCW:H41	0.48	2.08	6	1
2:B:147:LYS:HG3	5:B:237:GNP:HN1	0.48	1.69	3	1
3:B:214:PCW:H231	4:B:229:17F:H39	0.48	1.84	1	1
3:C:610:PCW:H62	3:C:617:PCW:H61	0.48	1.85	1	1
1:A:291:LEU:O	1:A:295:GLN:HG3	0.48	2.08	8	1
3:C:615:PCW:H20	4:C:633:17F:H40	0.48	1.85	10	1
3:C:615:PCW:H231	4:C:629:17F:H45	0.48	1.85	5	1
3:B:215:PCW:H121	3:B:217:PCW:H122	0.48	1.84	9	1
3:A:408:PCW:H11	3:C:610:PCW:H321	0.48	1.85	7	1
1:A:359:THR:HA	1:A:362:GLU:OE1	0.48	2.09	4	1
1:C:479:ALA:O	1:C:483:GLU:HG2	0.48	2.08	2	1
3:A:409:PCW:H142	3:A:410:PCW:H172	0.48	1.84	3	1
3:A:405:PCW:H142	3:C:609:PCW:H272	0.48	1.85	10	1
1:C:563:LYS:HB2	1:C:564:PRO:CD	0.48	2.39	10	5
3:C:607:PCW:O11	3:C:615:PCW:H51	0.48	2.08	7	1
3:B:204:PCW:H142	3:B:208:PCW:H362	0.48	1.84	4	1
3:B:224:PCW:H71	4:B:229:17F:O5	0.48	2.08	2	1
4:C:627:17F:H10A	4:C:629:17F:H19	0.48	1.86	2	1
3:B:208:PCW:H39	3:B:234:PCW:H272	0.48	1.84	8	1
1:A:255:GLN:HB2	1:A:256:PRO:CD	0.48	2.39	2	4
1:A:297:LYS:O	1:A:301:LEU:HB2	0.48	2.08	3	2
3:A:406:PCW:H331	4:B:227:17F:C8	0.48	2.39	6	1
3:C:604:PCW:H152	3:C:625:PCW:H462	0.48	1.84	9	1
3:B:208:PCW:H272	3:B:219:PCW:H272	0.48	1.85	4	1
3:B:204:PCW:O2P	3:B:204:PCW:H73	0.48	2.08	2	1
2:B:17:SER:HB2	2:B:29:VAL:HG21	0.48	1.84	1	1
2:B:22:GLN:O	2:B:26:ASN:HA	0.48	2.08	9	4
3:B:214:PCW:H221	3:C:615:PCW:H483	0.48	1.85	4	1
3:B:210:PCW:H71	4:B:229:17F:O4	0.48	2.08	2	1
3:B:203:PCW:H422	4:B:228:17F:H40	0.48	1.86	3	1
3:A:401:PCW:H41	3:B:213:PCW:O11	0.48	2.09	1	1
3:A:405:PCW:H151	4:B:228:17F:H33	0.48	1.86	10	1
4:B:231:17F:H8	4:B:231:17F:H33	0.48	1.86	10	1
3:B:212:PCW:H152	4:B:231:17F:H59	0.48	1.84	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:402:PCW:H351	3:A:402:PCW:H152	0.48	1.84	9	1
3:B:203:PCW:O2	3:B:213:PCW:H322	0.48	2.08	9	1
4:B:236:17F:H73	4:C:628:17F:H72	0.48	1.86	4	1
1:C:559:SER:HB2	1:C:563:LYS:HE2	0.48	1.85	5	1
3:A:405:PCW:H152	3:C:609:PCW:H262	0.48	1.84	5	1
3:B:206:PCW:H162	3:B:208:PCW:H161	0.48	1.86	9	1
3:B:210:PCW:H122	3:B:214:PCW:H162	0.48	1.86	9	1
3:C:614:PCW:H412	3:C:619:PCW:H20	0.48	1.86	9	1
3:B:235:PCW:H251	3:C:622:PCW:H251	0.48	1.86	9	1
3:B:215:PCW:H40	4:C:632:17F:H76	0.48	1.84	9	1
3:A:401:PCW:H261	3:C:614:PCW:H281	0.48	1.86	4	1
3:A:406:PCW:H382	4:B:227:17F:H8A	0.48	1.84	4	1
3:B:214:PCW:H81	4:B:229:17F:O1	0.48	2.09	4	1
2:B:71:TYR:CD1	7:B:239:EWS:BRA	0.48	3.22	1	1
3:B:213:PCW:H83	4:B:230:17F:O1	0.48	2.08	8	1
1:A:308:ARG:CG	1:C:469:LEU:CD2	0.48	2.91	10	1
3:B:217:PCW:H483	3:B:219:PCW:H481	0.48	1.85	10	1
3:B:207:PCW:H63	4:B:228:17F:HN1	0.48	1.68	6	1
2:B:5:LYS:HB3	7:B:239:EWS:NAW	0.48	2.23	6	2
3:B:221:PCW:H82	4:B:229:17F:C3	0.48	2.39	7	1
3:A:403:PCW:H51	4:B:231:17F:H4	0.48	1.86	7	1
1:A:352:LYS:HZ2	1:C:425:GLU:CB	0.48	2.22	4	1
3:B:205:PCW:H483	3:C:610:PCW:H432	0.47	1.86	8	1
2:B:3:GLU:HG3	3:B:223:PCW:H81	0.47	1.85	8	1
3:B:201:PCW:H432	4:B:228:17F:H45	0.47	1.84	5	1
2:B:5:LYS:HD3	2:B:54:ASP:HB3	0.47	1.85	7	1
3:B:220:PCW:H372	3:B:220:PCW:H121	0.47	1.85	2	2
3:A:410:PCW:H331	4:C:630:17F:C1X	0.47	2.39	4	1
3:C:615:PCW:H212	4:C:629:17F:H41	0.47	1.85	2	1
3:C:603:PCW:H332	3:C:607:PCW:H122	0.47	1.86	3	1
3:C:621:PCW:H162	4:C:632:17F:H6	0.47	1.85	1	1
3:B:203:PCW:H2	3:B:203:PCW:H52	0.47	1.85	10	1
1:A:363:LYS:O	1:A:367:ALA:HB3	0.47	2.10	4	4
3:C:608:PCW:H31	4:C:631:17F:C4	0.47	2.39	1	2
3:C:621:PCW:H442	4:C:632:17F:H12	0.47	1.84	4	1
1:A:273:ARG:HA	1:A:276:VAL:HG12	0.47	1.85	1	1
1:C:430:LEU:HA	1:C:433:GLU:HB2	0.47	1.86	1	1
1:A:242:GLU:HB3	1:C:532:ARG:NH2	0.47	2.24	10	1
3:C:607:PCW:H132	3:C:615:PCW:H342	0.47	1.86	10	1
3:C:605:PCW:H152	4:C:627:17F:H34	0.47	1.86	6	1
1:C:488:LYS:CB	3:C:620:PCW:H281	0.47	2.38	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:220:PCW:H142	4:B:232:17F:H60	0.47	1.86	8	1
3:A:404:PCW:H72	7:B:239:EWS:OAB	0.47	2.08	10	1
3:A:402:PCW:O1P	3:B:212:PCW:H51	0.47	2.09	6	1
3:C:623:PCW:H141	3:C:623:PCW:H39	0.47	1.86	8	1
4:B:236:17F:H43	4:B:236:17F:H75	0.47	1.85	5	1
1:C:429:ASN:HA	1:C:432:LYS:HD2	0.47	1.85	4	2
3:B:216:PCW:O1P	3:C:601:PCW:H71	0.47	2.09	7	1
3:B:204:PCW:H342	3:B:212:PCW:H12	0.47	1.87	4	1
3:B:211:PCW:H12	3:B:211:PCW:H62	0.47	1.85	2	1
3:B:210:PCW:H282	3:B:214:PCW:H40	0.47	1.86	2	1
3:C:615:PCW:H182	4:C:633:17F:H12	0.47	1.87	2	1
3:B:209:PCW:H382	3:B:224:PCW:H221	0.47	1.86	3	1
3:A:406:PCW:H51	4:B:230:17F:N1	0.47	2.24	1	1
3:A:406:PCW:H121	4:A:407:17F:C31	0.47	2.34	8	1
3:A:402:PCW:H482	3:C:610:PCW:H261	0.47	1.87	8	1
3:C:607:PCW:H332	3:C:615:PCW:H341	0.47	1.86	8	1
4:B:236:17F:H73	4:C:628:17F:H68	0.47	1.86	1	2
3:B:210:PCW:O2P	3:B:214:PCW:H41	0.47	2.09	10	1
3:B:221:PCW:H121	3:C:601:PCW:H351	0.47	1.85	6	1
3:B:221:PCW:H452	3:C:605:PCW:H471	0.47	1.87	6	1
2:B:5:LYS:HD3	7:B:239:EWS:OAB	0.47	2.08	6	1
3:B:201:PCW:H361	4:B:227:17F:H20	0.47	1.86	7	1
4:B:230:17F:H78	3:C:619:PCW:H451	0.47	1.85	2	1
3:B:202:PCW:H332	3:B:215:PCW:H141	0.47	1.86	1	1
3:B:216:PCW:H32	4:B:229:17F:H2	0.47	1.87	1	1
3:C:603:PCW:H252	4:C:628:17F:H39	0.47	1.85	8	1
3:A:409:PCW:H222	3:A:410:PCW:H212	0.47	1.86	10	1
3:B:203:PCW:H251	4:B:230:17F:H64	0.47	1.87	10	1
3:B:205:PCW:H461	3:C:610:PCW:H272	0.47	1.87	10	1
3:C:621:PCW:H132	4:C:632:17F:H4A	0.47	1.87	2	2
4:B:232:17F:O10	4:B:232:17F:H4A	0.47	2.09	6	1
3:C:626:PCW:H422	4:C:631:17F:H48	0.47	1.86	6	1
3:B:205:PCW:H152	3:B:205:PCW:H351	0.47	1.85	6	1
3:B:216:PCW:H231	3:C:604:PCW:H462	0.47	1.86	6	1
3:A:408:PCW:H11	3:C:610:PCW:H352	0.47	1.87	9	1
3:C:615:PCW:H151	4:C:633:17F:H8	0.47	1.85	9	1
3:B:224:PCW:H82	4:B:226:17F:O1	0.47	2.09	9	1
3:B:209:PCW:H131	3:B:216:PCW:H122	0.47	1.87	7	1
3:C:607:PCW:H152	3:C:615:PCW:H321	0.47	1.85	7	2
3:B:209:PCW:H451	3:B:224:PCW:H242	0.47	1.86	4	1
3:B:208:PCW:H82	3:B:219:PCW:O1P	0.47	2.10	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:408:PCW:H151	3:A:411:PCW:H152	0.47	1.84	2	1
3:B:211:PCW:C12	4:B:226:17F:H18A	0.47	2.39	3	1
3:C:604:PCW:H12	3:C:625:PCW:H332	0.47	1.86	1	1
3:C:607:PCW:H352	3:C:615:PCW:H382	0.47	1.85	1	1
1:C:549:ALA:O	1:C:553:GLU:HG3	0.47	2.09	3	2
3:B:233:PCW:H331	3:B:233:PCW:H62	0.47	1.87	6	1
3:B:208:PCW:H41	3:B:219:PCW:H32	0.47	1.86	4	1
3:B:203:PCW:H482	3:B:213:PCW:H19	0.47	1.86	3	1
3:B:220:PCW:H131	4:B:232:17F:H31	0.47	1.87	3	1
4:B:236:17F:H68	3:C:603:PCW:H271	0.47	1.86	3	1
3:C:607:PCW:H152	3:C:615:PCW:H352	0.47	1.87	1	1
3:C:613:PCW:O31	3:C:613:PCW:H31	0.47	2.08	1	5
1:C:586:SER:O	1:C:590:GLU:HG3	0.47	2.10	10	2
3:B:203:PCW:H322	3:B:213:PCW:H352	0.47	1.86	9	1
1:A:375:LEU:HD11	4:B:230:17F:H54	0.47	1.87	4	1
3:B:204:PCW:H231	3:B:218:PCW:H212	0.47	1.87	3	1
3:A:411:PCW:H452	3:C:616:PCW:H251	0.47	1.87	1	1
3:A:402:PCW:H372	4:B:231:17F:H74	0.47	1.87	8	1
3:B:209:PCW:H161	3:B:224:PCW:H211	0.47	1.86	10	1
3:A:410:PCW:H462	3:A:411:PCW:H241	0.47	1.86	6	1
4:B:227:17F:C10	4:B:227:17F:H58	0.47	2.39	9	2
3:B:207:PCW:H232	3:B:216:PCW:H162	0.47	1.86	9	1
3:B:211:PCW:O11	3:B:217:PCW:H12	0.47	2.10	7	1
3:A:406:PCW:H341	4:B:227:17F:H9A	0.47	1.87	7	1
3:B:234:PCW:H62	3:C:617:PCW:O1P	0.47	2.10	7	1
3:B:204:PCW:H162	3:B:208:PCW:H382	0.47	1.86	4	1
3:A:405:PCW:H161	4:B:228:17F:H34	0.47	1.87	4	1
3:B:201:PCW:O2P	3:B:213:PCW:H72	0.47	2.10	2	1
4:B:226:17F:H40	4:B:236:17F:H42	0.46	1.87	10	1
3:C:605:PCW:H221	4:C:627:17F:H37	0.46	1.85	10	1
1:A:376:LEU:HB2	1:A:377:PRO:CD	0.46	2.40	9	3
3:B:223:PCW:H471	4:C:632:17F:C42	0.46	2.25	5	1
3:C:603:PCW:H421	3:C:607:PCW:H11	0.46	1.86	5	1
1:A:309:ALA:HA	1:A:312:HIS:HB2	0.46	1.86	7	1
3:B:221:PCW:H12	3:B:221:PCW:O31	0.46	2.10	7	1
3:C:621:PCW:H432	4:C:632:17F:H69	0.46	1.87	2	1
3:B:206:PCW:O2P	3:B:211:PCW:H82	0.46	2.10	3	1
3:B:214:PCW:H212	4:B:229:17F:H36	0.46	1.86	1	1
1:A:356:HIS:HD2	3:A:401:PCW:C27	0.46	2.16	9	1
3:B:211:PCW:O3	4:B:226:17F:H4	0.46	2.11	3	1
1:C:440:GLU:O	1:C:444:ASP:HB2	0.46	2.10	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:612:PCW:H161	3:C:617:PCW:H19	0.46	1.88	9	1
3:C:607:PCW:H341	3:C:615:PCW:H362	0.46	1.87	9	1
3:A:405:PCW:O2P	3:B:207:PCW:H72	0.46	2.10	7	1
3:B:212:PCW:H241	3:B:218:PCW:H451	0.46	1.87	4	1
1:C:465:GLU:C	1:C:469:LEU:HD12	0.46	2.30	4	1
3:B:201:PCW:H32	4:B:230:17F:O1	0.46	2.10	10	1
4:B:226:17F:H35	4:B:236:17F:H50	0.46	1.86	10	1
3:C:603:PCW:H411	4:C:628:17F:C7	0.46	2.40	10	1
1:A:351:ALA:O	1:A:355:GLU:HG2	0.46	2.10	5	1
3:B:208:PCW:H62	4:B:231:17F:O1	0.46	2.10	5	1
3:C:626:PCW:H40	4:C:631:17F:H44	0.46	1.87	6	2
3:B:218:PCW:H41	3:B:219:PCW:O11	0.46	2.10	7	1
1:A:372:ARG:O	1:A:376:LEU:HG	0.46	2.10	4	1
3:A:406:PCW:H381	4:B:227:17F:H11	0.46	1.87	4	1
3:B:207:PCW:H231	3:C:601:PCW:H322	0.46	1.87	4	1
3:A:401:PCW:H481	3:C:614:PCW:H20	0.46	1.86	4	1
3:A:401:PCW:H482	3:C:614:PCW:H221	0.46	1.86	2	1
3:B:213:PCW:H251	3:B:213:PCW:H441	0.46	1.88	1	1
3:C:608:PCW:H73	4:C:631:17F:O1	0.46	2.10	8	1
3:B:203:PCW:O2	3:B:213:PCW:H321	0.46	2.11	5	1
3:B:233:PCW:H481	3:C:603:PCW:H2	0.46	1.87	5	1
3:B:202:PCW:H332	3:B:215:PCW:H152	0.46	1.88	9	1
3:C:617:PCW:H411	3:C:618:PCW:H182	0.46	1.88	7	1
1:C:573:LEU:HA	1:C:576:VAL:HG12	0.46	1.86	4	2
3:B:206:PCW:H482	3:B:218:PCW:H221	0.46	1.88	1	1
1:C:561:LYS:O	1:C:565:ALA:HB3	0.46	2.10	8	2
1:A:392:GLU:HA	1:A:395:LYS:HG2	0.46	1.87	10	1
2:B:45:VAL:HG22	2:B:50:THR:HG23	0.46	1.88	10	2
3:A:403:PCW:H442	3:A:404:PCW:H141	0.46	1.87	5	1
2:B:171:SER:HA	3:B:209:PCW:H61	0.46	1.86	5	1
3:B:201:PCW:H371	4:B:228:17F:H41	0.46	1.87	9	1
3:B:209:PCW:H381	4:B:228:17F:H20A	0.46	1.87	7	1
3:A:409:PCW:H483	3:C:619:PCW:H40	0.46	1.86	4	1
4:C:628:17F:H1A	4:C:628:17F:H4	0.46	1.86	1	1
4:C:630:17F:C4	4:C:630:17F:C1	0.46	2.92	1	1
3:C:611:PCW:H411	3:C:611:PCW:H19	0.46	1.86	8	1
3:C:606:PCW:H142	3:C:612:PCW:H171	0.46	1.87	10	1
2:B:5:LYS:CD	7:B:239:EWS:OAB	0.46	2.63	6	1
3:B:212:PCW:H352	4:B:231:17F:H29	0.46	1.87	9	1
3:B:221:PCW:H422	4:B:229:17F:H63	0.46	1.86	9	1
3:B:210:PCW:H352	3:B:214:PCW:H142	0.46	1.86	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:212:PCW:H382	4:B:231:17F:H10A	0.46	1.88	4	1
3:B:219:PCW:H452	3:B:219:PCW:H232	0.46	1.87	8	1
3:A:409:PCW:H351	3:B:235:PCW:H382	0.46	1.87	5	1
3:B:209:PCW:H131	3:B:224:PCW:H182	0.46	1.87	9	1
3:B:214:PCW:H281	4:C:627:17F:H73	0.46	1.88	7	1
3:B:220:PCW:H152	3:B:220:PCW:H352	0.46	1.86	2	1
1:C:563:LYS:CB	1:C:564:PRO:HD3	0.46	2.38	8	3
3:C:605:PCW:H451	4:C:627:17F:H51	0.46	1.88	8	1
1:A:365:LYS:CB	1:A:366:PRO:HD3	0.46	2.38	6	5
3:A:410:PCW:H51	3:A:410:PCW:H11	0.46	1.87	5	1
3:B:213:PCW:H141	4:B:228:17F:O9	0.46	2.11	5	1
3:B:206:PCW:O2P	3:B:211:PCW:H12	0.46	2.11	7	1
1:A:272:TYR:HD2	1:C:506:ARG:HH22	0.46	1.53	1	1
3:A:408:PCW:H252	3:A:411:PCW:H251	0.46	1.87	1	1
2:B:145:SER:HB3	2:B:148:THR:HG22	0.46	1.88	1	1
3:A:410:PCW:H382	4:C:630:17F:C12	0.46	2.40	1	1
3:C:609:PCW:H412	3:C:624:PCW:H222	0.46	1.88	8	1
1:A:315:ALA:O	1:A:319:HIS:HB2	0.46	2.11	5	1
3:A:409:PCW:H461	3:C:613:PCW:H171	0.46	1.88	5	1
3:B:201:PCW:H52	3:B:222:PCW:H42	0.46	1.86	6	1
3:C:607:PCW:H222	3:C:615:PCW:H411	0.46	1.87	6	1
3:B:205:PCW:H52	3:B:212:PCW:O2P	0.46	2.11	9	1
3:B:219:PCW:H411	3:B:223:PCW:H372	0.46	1.86	9	1
3:B:225:PCW:H381	3:B:225:PCW:H19	0.46	1.87	9	1
3:C:621:PCW:H252	3:C:622:PCW:H431	0.46	1.87	9	1
3:A:408:PCW:H351	3:A:410:PCW:C34	0.46	2.34	2	1
1:A:352:LYS:HZ1	1:C:425:GLU:HB2	0.46	1.70	3	1
4:B:236:17F:H33	3:C:622:PCW:H19	0.45	1.87	10	2
3:C:603:PCW:H412	3:C:607:PCW:H31	0.45	1.88	6	1
1:C:455:TYR:OH	3:C:601:PCW:H231	0.45	2.10	9	2
3:C:622:PCW:H282	4:C:628:17F:H52	0.45	1.87	3	2
3:B:222:PCW:H481	3:C:622:PCW:H181	0.45	1.86	4	1
3:B:210:PCW:H132	3:B:217:PCW:H151	0.45	1.87	1	1
3:B:220:PCW:H442	3:B:222:PCW:H221	0.45	1.88	8	1
3:B:221:PCW:H172	3:C:601:PCW:H381	0.45	1.88	8	1
3:B:204:PCW:H2	3:B:208:PCW:H322	0.45	1.87	5	1
3:B:208:PCW:H451	4:B:231:17F:H48	0.45	1.88	5	1
1:C:466:GLU:HA	1:C:469:LEU:HD12	0.45	1.87	5	1
3:C:618:PCW:O3	3:C:626:PCW:H162	0.45	2.11	6	1
3:A:406:PCW:H472	3:A:409:PCW:H262	0.45	1.86	9	1
3:A:404:PCW:H20	3:B:225:PCW:H252	0.45	1.88	9	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:615:PCW:H19	4:C:633:17F:H12	0.45	1.88	4	1
1:A:355:GLU:HA	1:A:355:GLU:OE1	0.45	2.11	3	1
3:B:201:PCW:H371	4:B:228:17F:C21	0.45	2.37	10	1
3:B:217:PCW:H232	4:B:226:17F:H64	0.45	1.88	5	1
3:B:210:PCW:H181	3:B:214:PCW:H19	0.45	1.88	6	1
3:A:411:PCW:H431	3:C:616:PCW:H261	0.45	1.88	9	1
3:C:611:PCW:H31	3:C:619:PCW:O3	0.45	2.11	9	1
3:C:604:PCW:H131	3:C:625:PCW:H372	0.45	1.88	3	1
1:A:346:LEU:O	1:A:350:HIS:HB2	0.45	2.11	1	1
3:C:603:PCW:H231	4:C:632:17F:H54	0.45	1.87	1	1
3:B:216:PCW:H71	4:B:229:17F:H19A	0.45	1.88	8	1
3:C:603:PCW:H441	3:C:607:PCW:H11	0.45	1.88	8	1
3:B:210:PCW:H232	3:B:214:PCW:H461	0.45	1.87	10	1
4:B:230:17F:H19	4:B:230:17F:H9	0.45	1.88	10	1
3:B:203:PCW:H122	4:B:230:17F:O8	0.45	2.11	10	1
3:B:204:PCW:P	3:B:212:PCW:O2P	0.45	2.74	6	1
1:A:352:LYS:HG2	1:C:422:VAL:HG22	0.45	1.88	6	1
3:A:402:PCW:O2P	3:B:205:PCW:H32	0.45	2.11	9	1
3:B:212:PCW:H121	4:B:231:17F:H9A	0.45	1.88	7	1
3:C:607:PCW:H181	3:C:615:PCW:H352	0.45	1.89	4	1
3:B:207:PCW:C21	3:C:601:PCW:H412	0.45	2.40	2	1
3:B:221:PCW:H341	3:B:221:PCW:H131	0.45	1.88	3	1
3:B:210:PCW:H51	4:B:226:17F:H2	0.45	1.88	10	1
3:C:615:PCW:H212	4:C:629:17F:H45	0.45	1.88	10	1
4:B:227:17F:O8	4:B:227:17F:H33	0.45	2.12	5	1
3:A:409:PCW:H62	4:C:630:17F:H1A	0.45	1.87	9	1
3:B:202:PCW:H162	3:B:215:PCW:H182	0.45	1.88	9	1
3:B:234:PCW:H421	3:B:234:PCW:H172	0.45	1.87	9	1
3:B:213:PCW:N	4:B:232:17F:N1	0.45	2.65	7	1
2:B:163:ILE:HG22	2:B:167:LYS:HE2	0.45	1.87	4	1
3:B:203:PCW:H41	4:B:230:17F:O2	0.45	2.11	3	1
3:C:607:PCW:H232	3:C:615:PCW:H411	0.45	1.88	3	1
3:A:403:PCW:C39	3:B:218:PCW:C48	0.45	2.95	1	1
3:A:403:PCW:H221	3:C:606:PCW:C26	0.45	2.40	1	1
3:A:409:PCW:H261	3:C:613:PCW:H181	0.45	1.88	10	1
3:B:221:PCW:H61	4:B:229:17F:O2	0.45	2.11	10	1
3:B:221:PCW:C17	3:C:601:PCW:H411	0.45	2.41	10	1
3:C:613:PCW:H31	3:C:613:PCW:O31	0.45	2.11	10	3
1:C:464:GLN:O	1:C:468:GLU:HG3	0.45	2.12	6	1
3:A:410:PCW:H472	3:A:411:PCW:H283	0.45	1.87	7	1
3:B:221:PCW:H141	3:C:601:PCW:H372	0.45	1.88	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:211:PCW:H372	4:B:226:17F:H19A	0.45	1.89	5	1
3:B:233:PCW:H51	4:B:236:17F:O2	0.45	2.12	6	1
3:B:234:PCW:H442	3:B:234:PCW:H212	0.45	1.89	7	1
3:B:223:PCW:H461	3:C:622:PCW:H452	0.45	1.87	7	1
1:A:363:LYS:HG2	1:C:411:THR:HG22	0.45	1.87	4	1
3:C:603:PCW:C40	4:C:628:17F:H6	0.45	2.42	2	1
1:C:455:TYR:CE1	3:C:601:PCW:H252	0.45	2.47	3	1
3:B:212:PCW:H172	4:B:231:17F:H34	0.45	1.89	5	1
4:B:226:17F:H20A	4:B:229:17F:H10	0.45	1.88	6	1
1:C:487:GLN:O	1:C:491:GLU:HG3	0.45	2.12	6	1
4:B:236:17F:H44	4:C:628:17F:H78	0.45	1.88	10	1
3:C:611:PCW:H182	3:C:619:PCW:H181	0.45	1.89	2	3
3:B:220:PCW:H451	3:B:235:PCW:H232	0.45	1.88	5	1
4:B:236:17F:H72	3:C:603:PCW:H262	0.45	1.89	5	1
3:A:406:PCW:H331	4:B:227:17F:H8A	0.45	1.88	6	1
3:B:235:PCW:H11	3:C:602:PCW:H11	0.45	1.88	6	1
1:A:327:LEU:HD23	1:A:330:ARG:HD3	0.45	1.88	9	1
1:C:461:LYS:O	1:C:465:GLU:HG3	0.45	2.11	1	2
3:B:217:PCW:H342	3:B:217:PCW:H152	0.45	1.87	7	1
3:B:208:PCW:H261	3:B:219:PCW:H283	0.45	1.88	7	1
3:A:408:PCW:H251	3:A:411:PCW:H232	0.45	1.87	2	1
3:B:214:PCW:H271	3:C:615:PCW:H432	0.45	1.89	2	1
3:A:405:PCW:H242	3:C:609:PCW:H261	0.45	1.88	3	1
3:B:209:PCW:H342	4:B:228:17F:O8	0.45	2.12	1	1
3:B:201:PCW:H362	3:B:220:PCW:H382	0.45	1.89	8	1
3:B:204:PCW:H422	3:B:205:PCW:H351	0.45	1.88	8	1
4:C:628:17F:H6A	4:C:632:17F:HN1	0.45	1.72	8	1
3:B:213:PCW:H121	4:B:228:17F:O9	0.45	2.12	9	2
1:C:431:GLU:HA	1:C:434:THR:OG1	0.45	2.12	7	1
3:B:234:PCW:H251	3:C:617:PCW:H481	0.45	1.89	1	1
3:C:607:PCW:H322	3:C:615:PCW:H341	0.44	1.88	10	1
3:C:613:PCW:H431	3:C:613:PCW:H171	0.44	1.88	10	1
4:B:227:17F:H65	3:C:623:PCW:H281	0.44	1.90	9	1
3:B:203:PCW:H483	4:B:228:17F:H57	0.44	1.87	7	1
3:B:203:PCW:H411	3:B:213:PCW:H162	0.44	1.89	7	1
3:C:611:PCW:H171	3:C:611:PCW:H382	0.44	1.89	7	1
3:A:410:PCW:H352	4:C:630:17F:H37	0.44	1.89	7	1
4:C:628:17F:H65	4:C:632:17F:H29	0.44	1.89	7	1
3:A:405:PCW:H40	3:C:609:PCW:H20	0.44	1.89	2	1
3:C:615:PCW:H421	4:C:632:17F:H52	0.44	1.89	3	1
3:B:233:PCW:H62	3:B:233:PCW:H331	0.44	1.89	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:5:LYS:HA	2:B:54:ASP:O	0.44	2.12	2	1
3:B:206:PCW:H451	3:B:208:PCW:H282	0.44	1.90	1	1
4:B:227:17F:H58	4:B:227:17F:H9A	0.44	1.88	5	1
3:B:223:PCW:H462	3:C:622:PCW:H452	0.44	1.88	9	1
4:B:230:17F:O2	4:B:230:17F:H2	0.44	2.12	9	1
3:C:622:PCW:H73	3:C:622:PCW:H331	0.44	1.88	9	1
3:B:212:PCW:H332	4:B:231:17F:H8A	0.44	1.88	4	1
3:A:406:PCW:H231	4:A:407:17F:H75	0.44	1.88	2	1
3:C:611:PCW:H141	3:C:619:PCW:H172	0.44	1.88	2	1
3:B:208:PCW:O1P	3:B:211:PCW:H83	0.44	2.13	1	1
3:B:204:PCW:H42	3:B:218:PCW:O4P	0.44	2.12	1	1
3:A:403:PCW:H432	3:B:218:PCW:H472	0.44	1.89	10	1
4:B:236:17F:H10	4:C:628:17F:H41	0.44	1.90	10	1
4:C:630:17F:C1	4:C:630:17F:C4	0.44	2.95	7	2
2:B:113:LEU:O	2:B:141:PHE:HA	0.44	2.12	4	1
3:B:201:PCW:H382	3:B:220:PCW:H361	0.44	1.89	2	1
4:A:407:17F:H54	3:B:204:PCW:H481	0.44	1.89	1	1
3:B:224:PCW:H52	4:B:226:17F:P1	0.44	2.52	8	1
1:C:455:TYR:O	1:C:459:PHE:HB2	0.44	2.12	10	1
1:A:307:ASP:HA	1:A:310:ARG:CD	0.44	2.41	5	1
1:A:242:GLU:OE1	1:C:528:ARG:HA	0.44	2.12	6	1
3:A:401:PCW:H40	3:B:203:PCW:H271	0.44	1.88	6	1
3:B:211:PCW:H242	3:B:216:PCW:H161	0.44	1.90	6	1
3:B:204:PCW:H372	3:B:222:PCW:H141	0.44	1.89	9	1
3:B:210:PCW:H52	4:B:229:17F:HN1	0.44	1.72	9	1
3:B:219:PCW:O2P	3:B:225:PCW:H62	0.44	2.13	4	1
4:B:229:17F:H4	4:B:229:17F:H2	0.44	1.89	4	1
3:C:607:PCW:H121	3:C:615:PCW:O31	0.44	2.12	4	1
3:A:404:PCW:H261	4:C:631:17F:H49	0.44	1.88	4	1
1:C:530:ALA:O	1:C:534:GLU:HG2	0.44	2.12	2	1
3:B:220:PCW:H251	4:B:232:17F:H75	0.44	1.90	3	1
3:C:605:PCW:H221	4:C:629:17F:H51	0.44	1.89	8	1
4:A:407:17F:H20A	4:A:407:17F:H8	0.44	1.88	10	1
3:B:210:PCW:C14	3:B:214:PCW:H151	0.44	2.40	5	1
3:C:618:PCW:H122	3:C:626:PCW:H181	0.44	1.89	3	2
3:B:221:PCW:H411	3:C:601:PCW:H372	0.44	1.89	7	1
3:C:611:PCW:H172	3:C:623:PCW:H451	0.44	1.89	2	1
3:B:221:PCW:H182	3:C:601:PCW:H412	0.44	1.90	3	1
3:B:216:PCW:H32	4:B:229:17F:HN1	0.44	1.71	8	1
3:A:409:PCW:H211	3:C:613:PCW:H142	0.44	1.87	8	1
1:A:299:SER:HB2	1:A:300:PRO:CD	0.44	2.42	10	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:607:PCW:H142	3:C:615:PCW:H321	0.44	1.90	10	1
3:A:410:PCW:C32	4:C:630:17F:H29	0.44	2.43	10	1
3:A:404:PCW:H40	3:B:225:PCW:H261	0.44	1.89	5	1
1:A:243:MET:HA	1:A:246:ASP:HB2	0.44	1.90	6	1
3:B:210:PCW:H73	4:B:226:17F:H2	0.44	1.89	6	1
1:C:428:ASP:O	1:C:432:LYS:HG3	0.44	2.12	6	1
3:A:405:PCW:O2P	3:B:207:PCW:H83	0.44	2.13	7	1
3:B:208:PCW:H332	3:B:222:PCW:H362	0.44	1.90	4	1
4:A:407:17F:H30	4:B:227:17F:H19	0.44	1.89	2	1
1:A:277:GLU:HB3	1:A:278:PRO:CD	0.44	2.43	1	1
3:B:201:PCW:H181	4:B:230:17F:H18	0.44	1.89	8	1
1:A:345:ARG:HD3	1:C:433:GLU:OE2	0.44	2.13	8	1
3:B:207:PCW:H422	3:B:209:PCW:H231	0.44	1.90	10	1
3:B:233:PCW:H82	4:B:236:17F:O1	0.44	2.13	10	1
3:C:618:PCW:C35	3:C:626:PCW:H212	0.44	2.43	10	1
4:A:407:17F:H41	4:B:227:17F:H31	0.44	1.87	7	1
3:B:207:PCW:H162	3:B:209:PCW:H211	0.44	1.90	7	1
3:B:204:PCW:H322	3:B:222:PCW:H121	0.44	1.89	2	1
1:C:458:ASP:O	1:C:462:LYS:HG3	0.44	2.13	2	1
3:B:205:PCW:H19	3:B:205:PCW:H412	0.44	1.89	3	1
3:B:218:PCW:H152	3:B:219:PCW:H121	0.44	1.90	1	1
3:B:219:PCW:H482	4:C:631:17F:H63	0.44	1.89	1	1
3:A:410:PCW:H322	4:C:630:17F:C21	0.44	2.41	8	1
3:B:216:PCW:H11	4:B:229:17F:N1	0.44	2.28	8	1
3:B:221:PCW:C17	3:C:601:PCW:C41	0.44	2.96	10	1
3:C:618:PCW:H412	3:C:626:PCW:C17	0.44	2.43	10	1
2:B:62:GLU:OE1	2:B:68:ARG:HD3	0.44	2.13	5	1
3:C:609:PCW:H132	3:C:625:PCW:H40	0.44	1.89	5	1
3:A:409:PCW:H211	3:C:613:PCW:H171	0.44	1.89	6	1
3:C:621:PCW:H422	4:C:632:17F:H34	0.44	1.88	9	1
3:A:401:PCW:O1P	3:A:405:PCW:H12	0.44	2.12	7	1
1:C:485:ALA:HA	1:C:488:LYS:HG2	0.44	1.90	4	1
4:C:632:17F:H8A	4:C:632:17F:H32	0.43	1.89	10	1
3:A:406:PCW:H462	4:A:407:17F:H74	0.43	1.90	5	1
3:B:221:PCW:H362	4:B:229:17F:H58	0.43	1.90	5	1
3:C:626:PCW:H271	4:C:631:17F:H41	0.43	1.89	5	1
1:C:567:GLU:HG2	1:C:571:GLN:NE2	0.43	2.27	9	1
1:A:392:GLU:HA	1:A:395:LYS:HD2	0.43	1.89	7	1
3:B:220:PCW:H132	3:B:220:PCW:H331	0.43	1.90	1	1
1:C:512:ASP:O	1:C:515:ARG:HB2	0.43	2.13	1	1
3:C:615:PCW:H222	4:C:633:17F:H41	0.43	1.90	8	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:221:PCW:H241	3:C:601:PCW:C20	0.43	2.40	10	1
3:C:609:PCW:O1P	3:C:614:PCW:H32	0.43	2.13	10	1
3:C:608:PCW:H82	4:C:631:17F:O1	0.43	2.12	10	1
1:A:278:PRO:O	1:A:282:GLU:HG3	0.43	2.12	5	2
3:A:405:PCW:H152	4:B:228:17F:H34	0.43	1.88	6	1
1:C:491:GLU:HB3	1:C:495:LYS:CE	0.43	2.44	7	2
3:C:605:PCW:H171	4:C:627:17F:H34	0.43	1.90	9	1
3:B:212:PCW:H351	4:B:231:17F:H8A	0.43	1.88	1	1
3:C:607:PCW:H151	3:C:615:PCW:C35	0.43	2.43	10	1
3:B:212:PCW:H252	3:B:218:PCW:H412	0.43	1.91	5	1
2:B:32:TYR:HD1	5:B:237:GNP:HNB3	0.43	1.56	5	1
1:C:458:ASP:HA	1:C:461:LYS:HD2	0.43	1.90	9	1
3:B:203:PCW:H40	4:B:228:17F:H12A	0.43	1.90	7	1
3:B:210:PCW:H122	3:B:214:PCW:H121	0.43	1.88	4	1
4:B:226:17F:H51	4:C:628:17F:H54	0.43	1.90	4	1
3:C:620:PCW:C13	4:C:633:17F:H59	0.43	2.39	4	1
1:C:485:ALA:HA	3:C:620:PCW:H271	0.43	1.90	3	1
3:C:606:PCW:H171	3:C:616:PCW:H39	0.43	1.88	3	1
3:C:603:PCW:H251	3:C:607:PCW:H281	0.43	1.88	3	1
3:C:621:PCW:H441	4:C:632:17F:H37	0.43	1.89	3	1
3:A:403:PCW:H222	3:C:606:PCW:C27	0.43	2.41	1	1
3:B:208:PCW:H352	3:B:222:PCW:H352	0.43	1.89	10	1
1:A:291:LEU:HD23	1:A:294:LEU:HD12	0.43	1.88	5	1
3:B:219:PCW:O2P	3:B:225:PCW:H82	0.43	2.13	6	1
3:B:233:PCW:H83	3:C:602:PCW:H32	0.43	1.90	6	1
1:A:376:LEU:HB2	1:A:377:PRO:HD3	0.43	1.91	9	2
3:B:203:PCW:H19	4:B:230:17F:H10	0.43	1.89	7	1
1:A:330:ARG:HD3	1:C:444:ASP:OD2	0.43	2.14	7	1
3:B:207:PCW:H42	3:B:216:PCW:H351	0.43	1.90	2	1
2:B:40:TYR:CE1	2:B:57:ASP:HB2	0.43	2.44	3	1
3:B:216:PCW:H241	3:C:605:PCW:H461	0.43	1.90	8	1
1:A:356:HIS:HA	1:C:418:GLN:OE1	0.43	2.13	10	1
3:A:408:PCW:O31	3:A:410:PCW:H332	0.43	2.13	10	1
2:B:84:ILE:HD12	2:B:123:ARG:HG3	0.43	1.90	10	1
3:B:215:PCW:H73	3:B:217:PCW:O1P	0.43	2.13	5	1
3:B:235:PCW:H2	3:B:235:PCW:O4P	0.43	2.13	4	1
3:C:618:PCW:H122	3:C:626:PCW:H171	0.43	1.91	2	1
3:B:203:PCW:H441	3:B:213:PCW:H262	0.43	1.90	3	1
3:B:221:PCW:H222	3:C:601:PCW:H483	0.43	1.90	3	1
3:B:221:PCW:H141	3:C:601:PCW:H362	0.43	1.91	8	1
3:B:209:PCW:O31	3:B:216:PCW:H31	0.43	2.13	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:263:LYS:O	1:A:267:GLU:HG3	0.43	2.14	6	2
3:B:223:PCW:H451	3:C:622:PCW:H431	0.43	1.90	6	1
3:B:212:PCW:H332	4:B:231:17F:H11	0.43	1.89	6	1
3:C:618:PCW:O1P	3:C:626:PCW:H2	0.43	2.12	9	1
3:B:214:PCW:H42	3:B:217:PCW:H61	0.43	1.90	4	1
2:B:14:VAL:HG23	2:B:16:LYS:HG2	0.43	1.91	2	1
3:B:201:PCW:H132	4:B:230:17F:H18	0.43	1.91	3	1
3:B:204:PCW:O3P	3:B:222:PCW:H61	0.43	2.13	1	1
3:B:206:PCW:H431	3:B:217:PCW:H382	0.43	1.89	8	1
3:A:410:PCW:H381	4:C:630:17F:H36	0.43	1.90	4	2
3:B:222:PCW:O31	3:B:222:PCW:H71	0.43	2.13	6	1
1:A:365:LYS:HB2	1:A:366:PRO:CD	0.43	2.43	9	2
3:B:204:PCW:H231	3:B:212:PCW:H461	0.43	1.91	2	1
4:B:228:17F:H47	3:C:611:PCW:H462	0.43	1.89	1	1
3:C:605:PCW:H171	4:C:629:17F:H18	0.43	1.91	1	1
1:C:510:HIS:O	1:C:514:LEU:HG	0.43	2.14	8	2
2:B:68:ARG:O	2:B:72:MET:HB2	0.43	2.13	4	3
3:A:406:PCW:H321	4:B:227:17F:O7	0.43	2.14	5	1
3:A:402:PCW:H471	4:B:231:17F:H46	0.43	1.90	8	1
3:C:611:PCW:H221	3:C:619:PCW:H242	0.43	1.91	8	1
3:A:406:PCW:H282	3:A:411:PCW:H481	0.43	1.90	10	1
3:B:217:PCW:H131	4:B:226:17F:H63	0.43	1.90	10	1
3:B:210:PCW:C7	4:B:226:17F:HN1A	0.43	2.26	5	1
3:B:235:PCW:H32	3:C:602:PCW:H31	0.43	1.91	5	1
3:B:222:PCW:H272	3:B:235:PCW:H221	0.43	1.89	4	1
1:A:386:PHE:O	1:A:390:LEU:HG	0.43	2.14	8	1
4:B:228:17F:H39	4:B:232:17F:H38	0.43	1.91	8	1
3:B:205:PCW:C4	3:B:222:PCW:H71	0.43	2.30	10	1
3:B:206:PCW:H351	3:B:211:PCW:H331	0.43	1.90	5	1
3:B:214:PCW:H40	3:B:215:PCW:H39	0.43	1.91	5	1
3:B:204:PCW:H181	3:B:218:PCW:H132	0.43	1.90	5	1
1:A:304:GLU:O	1:A:308:ARG:HG2	0.43	2.14	6	1
1:A:344:ALA:O	1:A:348:GLU:HG2	0.43	2.14	7	1
3:B:201:PCW:H42	4:B:230:17F:C2	0.43	2.44	7	1
4:C:633:17F:H30	4:C:633:17F:H58	0.43	1.90	7	1
3:B:211:PCW:H382	4:B:226:17F:H10	0.43	1.91	4	1
4:B:236:17F:H8A	4:C:628:17F:H41	0.43	1.91	4	1
1:A:335:LEU:O	1:A:339:LYS:HG3	0.43	2.13	2	1
1:A:258:LEU:O	1:A:262:GLN:HB2	0.43	2.14	1	1
3:B:215:PCW:H72	3:B:219:PCW:H63	0.43	1.91	1	1
3:B:224:PCW:H52	4:B:226:17F:O1	0.42	2.14	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:607:PCW:H151	3:C:615:PCW:H351	0.42	1.90	10	1
1:A:270:GLU:O	1:A:274:GLN:HB2	0.42	2.14	5	1
4:B:231:17F:H50	3:C:610:PCW:H483	0.42	1.91	5	1
2:B:20:THR:O	2:B:24:ILE:HG12	0.42	2.14	6	2
3:B:208:PCW:H19	3:B:222:PCW:H442	0.42	1.90	6	1
1:A:279:LEU:HB3	1:C:495:LYS:HD3	0.42	1.90	7	1
3:B:207:PCW:H71	4:B:228:17F:C1	0.42	2.44	10	1
3:C:605:PCW:H242	4:C:629:17F:H52	0.42	1.92	10	1
3:C:625:PCW:O11	3:C:625:PCW:H52	0.42	2.15	7	1
3:B:235:PCW:C34	3:C:623:PCW:H331	0.42	2.44	4	1
3:B:209:PCW:H332	3:B:224:PCW:H19	0.42	1.90	3	1
3:A:401:PCW:H441	3:C:614:PCW:H272	0.42	1.90	1	1
3:C:604:PCW:H371	3:C:605:PCW:H331	0.42	1.91	1	1
3:A:406:PCW:C31	4:A:407:17F:H31	0.42	2.44	8	1
3:C:610:PCW:H272	3:C:610:PCW:H482	0.42	1.92	8	1
3:B:204:PCW:H412	3:B:205:PCW:H382	0.42	1.91	10	1
3:A:402:PCW:H321	3:B:205:PCW:H32	0.42	1.91	6	1
3:C:607:PCW:C15	3:C:615:PCW:H321	0.42	2.45	3	2
4:B:236:17F:H75	3:C:603:PCW:H271	0.42	1.92	9	1
2:B:6:LEU:O	2:B:55:ILE:HA	0.42	2.14	3	2
3:C:604:PCW:C1	3:C:604:PCW:H52	0.42	2.44	2	1
3:A:404:PCW:H11	3:B:218:PCW:H372	0.42	1.89	3	1
3:B:209:PCW:H342	4:B:228:17F:H18A	0.42	1.90	3	1
2:B:59:ALA:HB3	2:B:62:GLU:HG2	0.42	1.91	3	1
3:B:211:PCW:H131	3:B:217:PCW:H2	0.42	1.90	1	1
3:A:410:PCW:H442	3:A:410:PCW:H272	0.42	1.92	10	1
4:B:232:17F:H49	3:C:609:PCW:H451	0.42	1.91	9	1
1:A:304:GLU:O	1:A:308:ARG:HG3	0.42	2.14	7	1
3:C:609:PCW:H382	3:C:624:PCW:H431	0.42	1.89	7	1
3:B:224:PCW:H11	4:B:232:17F:H6	0.42	1.91	4	1
3:B:209:PCW:H151	3:B:216:PCW:H142	0.42	1.90	2	1
2:B:145:SER:HB2	2:B:150:GLN:HB2	0.42	1.92	3	1
3:B:233:PCW:H41	4:B:236:17F:O2	0.42	2.15	8	2
3:A:405:PCW:H432	3:C:609:PCW:H231	0.42	1.92	10	1
2:B:170:MET:HB3	3:B:211:PCW:H52	0.42	1.92	9	1
3:B:217:PCW:H222	4:B:226:17F:H65	0.42	1.91	9	1
3:C:618:PCW:H372	3:C:626:PCW:H412	0.42	1.91	9	1
3:A:406:PCW:H321	4:A:407:17F:H8	0.42	1.91	4	1
3:B:233:PCW:H172	3:C:624:PCW:C15	0.42	2.44	4	1
2:B:62:GLU:HB3	2:B:68:ARG:NH1	0.42	2.30	4	1
4:C:628:17F:H4A	4:C:632:17F:HN1	0.42	1.75	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:210:PCW:H71	4:B:226:17F:O1	0.42	2.14	1	1
3:B:219:PCW:H461	3:B:223:PCW:H482	0.42	1.89	1	1
3:B:211:PCW:H11	3:B:217:PCW:O1P	0.42	2.14	10	1
4:A:407:17F:H37	4:B:227:17F:H19	0.42	1.91	10	1
3:B:212:PCW:H412	4:B:231:17F:H57	0.42	1.90	5	1
3:C:615:PCW:H222	4:C:633:17F:H35	0.42	1.91	6	1
3:B:207:PCW:H71	4:B:228:17F:HN1	0.42	1.74	7	1
1:A:356:HIS:O	1:A:360:LEU:HB2	0.42	2.14	4	1
3:B:215:PCW:H11	3:B:223:PCW:O1P	0.42	2.15	4	1
3:A:406:PCW:H211	4:A:407:17F:H70	0.42	1.90	2	1
3:C:610:PCW:H482	3:C:610:PCW:H252	0.42	1.89	2	1
3:A:406:PCW:H331	4:A:407:17F:H31	0.42	1.91	8	1
1:C:458:ASP:HA	1:C:461:LYS:NZ	0.42	2.30	8	1
3:C:625:PCW:H83	3:C:625:PCW:O11	0.42	2.15	8	1
3:B:201:PCW:H40	3:C:623:PCW:H272	0.42	1.90	5	1
3:A:409:PCW:H2	3:A:409:PCW:O1P	0.42	2.14	7	1
3:B:219:PCW:H461	3:B:219:PCW:H231	0.42	1.92	7	1
3:B:221:PCW:C7	4:B:229:17F:H1	0.42	2.36	4	1
2:B:78:PHE:O	2:B:111:MET:HA	0.42	2.15	3	1
2:B:133:LEU:HG	2:B:137:TYR:HE2	0.42	1.73	3	1
3:B:214:PCW:H241	3:C:615:PCW:H471	0.42	1.92	3	1
4:A:407:17F:H30	4:B:227:17F:O10	0.42	2.15	1	1
3:B:210:PCW:H73	4:B:226:17F:P1	0.42	2.55	10	1
3:C:608:PCW:C1	4:C:631:17F:H4A	0.42	2.44	2	1
1:A:325:ASP:O	1:A:329:GLN:HG3	0.42	2.15	3	1
3:A:401:PCW:H362	3:B:213:PCW:H432	0.42	1.92	8	1
3:B:207:PCW:H232	3:C:601:PCW:H421	0.42	1.90	8	1
3:B:210:PCW:H41	4:B:226:17F:O5	0.42	2.15	5	1
3:B:214:PCW:H381	3:B:217:PCW:H162	0.42	1.90	6	1
1:C:589:GLU:O	1:C:593:LYS:HG3	0.42	2.14	4	1
3:C:605:PCW:H481	4:C:627:17F:H53	0.42	1.91	4	1
3:C:615:PCW:H242	4:C:629:17F:H45	0.42	1.92	1	1
3:A:410:PCW:H132	4:C:630:17F:H11A	0.42	1.92	8	1
3:B:216:PCW:H221	3:C:604:PCW:H462	0.42	1.91	8	1
3:C:605:PCW:H212	4:C:627:17F:H37	0.42	1.92	6	1
3:B:210:PCW:H82	4:B:229:17F:H6A	0.42	1.91	7	1
4:B:226:17F:H45	4:B:232:17F:H62	0.42	1.91	4	1
3:C:607:PCW:H283	3:C:615:PCW:H422	0.42	1.92	3	1
3:A:408:PCW:H39	3:A:410:PCW:H432	0.41	1.92	5	1
3:C:602:PCW:H63	3:C:602:PCW:O11	0.41	2.15	6	1
3:B:211:PCW:H82	3:B:219:PCW:H321	0.41	1.91	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:218:PCW:H71	4:B:231:17F:H2	0.41	1.90	2	1
3:B:209:PCW:H73	3:B:216:PCW:H12	0.41	1.92	3	1
3:B:221:PCW:H371	4:B:229:17F:H31	0.41	1.91	3	1
1:C:427:TRP:O	1:C:431:GLU:HG2	0.41	2.15	1	1
3:B:209:PCW:H61	3:B:216:PCW:O2P	0.41	2.14	6	1
3:C:603:PCW:H371	3:C:607:PCW:C3	0.41	2.46	9	1
3:C:612:PCW:H241	3:C:612:PCW:H452	0.41	1.91	9	1
3:B:210:PCW:H20	4:C:633:17F:H51	0.41	1.91	9	1
3:B:205:PCW:H62	3:B:212:PCW:O2P	0.41	2.14	7	1
1:C:488:LYS:NZ	3:C:620:PCW:C27	0.41	2.83	4	1
3:A:409:PCW:H63	4:C:630:17F:N1	0.41	2.30	4	1
3:B:211:PCW:H121	4:B:226:17F:O9	0.41	2.14	3	1
1:C:574:LEU:HB2	1:C:575:PRO:CD	0.41	2.45	1	1
3:A:411:PCW:H172	3:A:411:PCW:H211	0.41	1.92	10	1
4:B:236:17F:H6A	3:C:603:PCW:H142	0.41	1.92	10	1
3:B:203:PCW:O31	3:B:203:PCW:H41	0.41	2.16	6	1
3:B:212:PCW:H461	3:B:218:PCW:H442	0.41	1.91	4	1
1:A:243:MET:HA	1:A:246:ASP:HB3	0.41	1.92	3	1
3:B:215:PCW:H83	3:B:217:PCW:O2P	0.41	2.14	1	1
3:B:220:PCW:O2P	3:B:222:PCW:H322	0.41	2.15	5	1
4:A:407:17F:H37	3:B:222:PCW:H32	0.41	1.91	5	1
4:A:407:17F:H54	3:C:613:PCW:H281	0.41	1.92	9	1
3:A:405:PCW:H331	3:B:209:PCW:H361	0.41	1.91	7	1
3:B:207:PCW:H71	4:B:228:17F:O3	0.41	2.15	7	1
1:A:345:ARG:O	1:A:349:TYR:HB2	0.41	2.15	2	1
3:B:204:PCW:O1P	3:B:222:PCW:H81	0.41	2.14	3	1
3:B:203:PCW:H132	3:B:213:PCW:H372	0.41	1.91	1	1
3:A:409:PCW:O1P	3:A:409:PCW:H2	0.41	2.15	8	1
3:B:209:PCW:H151	3:B:216:PCW:H171	0.41	1.92	5	1
3:B:208:PCW:H432	3:B:234:PCW:H221	0.41	1.92	5	1
3:C:615:PCW:H442	4:C:632:17F:H47	0.41	1.93	5	1
1:C:502:GLU:O	1:C:506:ARG:HG3	0.41	2.15	9	3
4:B:232:17F:H44	3:C:609:PCW:H482	0.41	1.93	6	1
3:C:604:PCW:H131	3:C:625:PCW:H381	0.41	1.93	6	1
3:A:409:PCW:H121	3:C:613:PCW:H2	0.41	1.92	9	1
1:A:264:LYS:O	1:A:268:GLU:HG3	0.41	2.15	2	1
1:C:576:VAL:O	1:C:580:PHE:HB2	0.41	2.15	2	1
3:A:401:PCW:H381	3:B:213:PCW:H483	0.41	1.92	3	1
3:B:210:PCW:H332	3:B:214:PCW:H142	0.41	1.91	3	1
3:B:216:PCW:H52	3:B:216:PCW:O31	0.41	2.14	1	1
3:B:212:PCW:H432	4:B:231:17F:H60	0.41	1.93	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:458:ASP:HA	1:C:461:LYS:HE2	0.41	1.91	1	1
3:B:220:PCW:H71	4:B:232:17F:O1	0.41	2.16	8	1
3:B:213:PCW:H342	3:B:213:PCW:H161	0.41	1.91	10	1
3:A:404:PCW:H352	3:B:225:PCW:H162	0.41	1.91	10	1
1:A:290:LYS:HE3	1:C:487:GLN:OE1	0.41	2.16	5	1
3:A:410:PCW:C38	4:C:630:17F:H36	0.41	2.44	9	1
3:B:233:PCW:H381	3:B:233:PCW:H141	0.41	1.92	7	1
1:A:239:LEU:HA	1:A:242:GLU:HB2	0.41	1.91	4	1
1:A:285:GLU:HA	1:A:288:ARG:HD2	0.41	1.92	2	1
3:B:201:PCW:H212	4:B:230:17F:H33	0.41	1.92	2	1
3:B:218:PCW:H172	3:B:225:PCW:H372	0.41	1.91	2	1
2:B:71:TYR:HD1	7:B:239:EWS:BRA	0.41	2.53	2	1
3:C:611:PCW:O31	3:C:623:PCW:H361	0.41	2.15	2	1
1:A:330:ARG:HH12	1:C:448:VAL:HG23	0.41	1.76	1	1
3:B:205:PCW:O2P	3:B:212:PCW:H73	0.41	2.16	10	1
3:B:233:PCW:H321	3:B:233:PCW:H451	0.41	1.93	5	1
4:B:226:17F:H70	4:B:236:17F:H55	0.41	1.92	6	1
3:B:221:PCW:H132	3:C:601:PCW:H12	0.41	1.92	7	1
2:B:101:LYS:HE3	2:B:107:GLU:HA	0.41	1.93	4	1
3:B:201:PCW:H172	4:B:227:17F:O8	0.41	2.15	4	1
3:B:208:PCW:H242	3:B:218:PCW:H281	0.41	1.93	3	1
3:B:208:PCW:H341	3:B:222:PCW:H362	0.41	1.90	1	1
3:B:235:PCW:H481	3:C:610:PCW:H452	0.41	1.91	1	1
3:C:626:PCW:H42	3:C:626:PCW:O31	0.41	2.15	1	1
1:A:330:ARG:NH2	1:C:447:GLU:HB3	0.41	2.31	10	1
3:A:405:PCW:H322	3:B:207:PCW:H322	0.41	1.92	5	1
3:B:201:PCW:H132	4:B:227:17F:O8	0.41	2.16	6	1
1:C:540:GLY:O	1:C:544:LEU:HG	0.41	2.16	6	1
3:B:203:PCW:H321	3:B:213:PCW:H81	0.41	1.92	9	1
3:A:406:PCW:H131	4:A:407:17F:H20A	0.41	1.92	7	1
3:B:224:PCW:H151	4:B:232:17F:H9	0.41	1.92	7	1
3:B:206:PCW:H32	3:B:220:PCW:H63	0.41	1.91	4	1
1:A:341:ASN:O	1:A:345:ARG:HG3	0.41	2.16	2	1
3:A:411:PCW:H162	4:C:630:17F:H38	0.41	1.92	2	1
3:B:206:PCW:H40	3:B:217:PCW:H351	0.41	1.92	10	1
4:A:407:17F:C2X	3:B:201:PCW:H381	0.41	2.45	5	1
1:A:277:GLU:HB2	1:A:278:PRO:CD	0.41	2.45	5	1
3:B:219:PCW:H381	3:B:223:PCW:H372	0.41	1.92	6	1
3:B:220:PCW:H2	3:B:220:PCW:H41	0.41	1.91	6	1
3:C:621:PCW:H482	4:C:632:17F:H35	0.41	1.92	6	1
3:A:406:PCW:H341	4:A:407:17F:C1Y	0.41	2.43	6	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:C:611:PCW:H152	3:C:623:PCW:H431	0.41	1.92	6	1
3:A:404:PCW:O1P	3:B:218:PCW:H71	0.41	2.15	7	1
3:B:205:PCW:H19	3:B:205:PCW:H371	0.41	1.93	7	1
3:C:607:PCW:H282	3:C:615:PCW:H451	0.41	1.93	7	1
3:B:204:PCW:H151	3:B:212:PCW:H39	0.41	1.92	4	1
1:A:375:LEU:HD11	4:B:230:17F:C30	0.41	2.46	4	1
4:B:226:17F:C40	4:B:236:17F:H54	0.41	2.45	4	1
1:C:465:GLU:C	1:C:469:LEU:CD1	0.41	2.85	4	1
1:C:578:GLU:O	1:C:582:VAL:HG23	0.41	2.16	1	1
1:C:490:HIS:HA	1:C:493:GLN:OE1	0.41	2.15	1	1
3:B:221:PCW:H452	4:C:627:17F:H50	0.41	1.93	1	1
3:B:216:PCW:H32	4:B:229:17F:N1	0.41	2.31	8	1
3:B:206:PCW:H431	3:B:217:PCW:H411	0.41	1.91	8	1
3:B:201:PCW:H372	4:B:227:17F:H32	0.41	1.93	8	1
3:B:224:PCW:H421	4:B:226:17F:H49	0.41	1.93	9	1
1:A:264:LYS:CE	1:C:509:ALA:HB1	0.41	2.44	9	1
3:C:607:PCW:H251	3:C:615:PCW:H441	0.41	1.93	9	1
3:B:204:PCW:O2P	3:B:204:PCW:N	0.41	2.54	4	1
3:C:617:PCW:H181	3:C:617:PCW:H152	0.41	1.65	4	1
4:A:407:17F:H51	3:C:623:PCW:H251	0.41	1.93	2	1
3:B:207:PCW:H82	3:B:209:PCW:O2P	0.41	2.16	3	1
3:B:210:PCW:O1P	3:B:217:PCW:H41	0.40	2.16	10	1
3:B:220:PCW:C4	4:B:232:17F:H19A	0.40	2.46	6	1
3:B:218:PCW:H283	3:B:234:PCW:H462	0.40	1.93	9	1
3:B:213:PCW:C6	4:B:232:17F:HN1A	0.40	2.28	7	1
3:B:209:PCW:H39	4:B:228:17F:H18A	0.40	1.92	4	1
3:B:207:PCW:H11	4:B:228:17F:O1	0.40	2.16	4	1
3:B:207:PCW:H19	3:C:601:PCW:H122	0.40	1.92	4	1
3:B:207:PCW:H172	3:B:209:PCW:H241	0.40	1.92	2	1
3:C:615:PCW:H222	4:C:633:17F:H40	0.40	1.92	3	1
3:B:209:PCW:O1P	3:B:216:PCW:H12	0.40	2.16	1	1
3:B:206:PCW:H162	4:B:226:17F:H37	0.40	1.91	10	1
1:C:475:GLU:HB2	1:C:476:PRO:CD	0.40	2.46	10	1
3:A:408:PCW:C32	3:C:610:PCW:H39	0.40	2.43	10	1
3:A:401:PCW:H483	3:C:623:PCW:H482	0.40	1.93	5	1
3:B:201:PCW:C1	4:B:230:17F:H1A	0.40	2.45	5	1
1:C:559:SER:HA	1:C:562:ALA:HB3	0.40	1.94	4	2
3:A:401:PCW:H51	3:B:203:PCW:H12	0.40	1.92	6	1
1:A:243:MET:O	1:A:247:LEU:HB2	0.40	2.16	9	1
4:A:407:17F:H52	3:B:201:PCW:H411	0.40	1.93	9	1
3:B:217:PCW:C34	3:B:217:PCW:H152	0.40	2.46	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:B:210:PCW:H83	4:B:229:17F:H2	0.40	1.93	7	1
1:A:349:TYR:OH	3:A:401:PCW:H222	0.40	2.15	4	1
1:C:488:LYS:HB3	3:C:620:PCW:H281	0.40	1.93	3	1
3:C:603:PCW:H481	4:C:633:17F:H60	0.40	1.93	3	1
3:A:409:PCW:H232	3:C:613:PCW:H172	0.40	1.93	3	1
3:B:220:PCW:O1P	3:B:220:PCW:H2	0.40	2.17	8	1
3:B:211:PCW:C36	4:B:226:17F:H8	0.40	2.32	10	1
3:A:403:PCW:H462	3:A:404:PCW:H372	0.40	1.92	5	1
3:B:233:PCW:C42	3:B:233:PCW:H381	0.40	2.47	5	1
4:B:236:17F:H72	3:C:603:PCW:H282	0.40	1.92	5	1
1:C:412:PHE:O	1:C:415:LEU:HB2	0.40	2.16	6	1
3:A:409:PCW:H62	4:C:630:17F:N1	0.40	2.32	9	1
3:A:410:PCW:H462	3:A:411:PCW:H231	0.40	1.93	9	1
2:B:158:THR:O	2:B:162:GLU:HG2	0.40	2.16	9	1
4:B:236:17F:C31	3:C:622:PCW:H141	0.40	2.47	9	1
3:A:404:PCW:H41	3:A:404:PCW:H322	0.40	1.92	7	1
3:B:201:PCW:H41	4:B:230:17F:O1	0.40	2.16	7	1
3:C:613:PCW:H72	3:C:619:PCW:H12	0.40	1.93	7	1
3:B:221:PCW:H51	4:B:229:17F:N1	0.40	2.30	4	1
3:A:404:PCW:H72	3:B:225:PCW:O2P	0.40	2.15	2	1
3:B:210:PCW:H171	3:B:214:PCW:H352	0.40	1.92	2	1
3:B:202:PCW:C7	3:B:217:PCW:H31	0.40	2.46	1	1
3:A:406:PCW:H351	4:A:407:17F:H32	0.40	1.92	5	1
3:B:211:PCW:H461	3:B:211:PCW:H251	0.40	1.93	6	1
3:C:611:PCW:H19	3:C:611:PCW:H381	0.40	1.93	6	1
3:B:233:PCW:H422	3:B:233:PCW:H381	0.40	1.92	9	1
1:A:260:ASP:HA	1:A:263:LYS:CE	0.40	2.38	1	1
1:C:508:ARG:O	1:C:512:ASP:HB3	0.40	2.16	1	1
4:B:228:17F:C2X	4:B:232:17F:H37	0.40	2.43	8	1
3:C:611:PCW:H372	3:C:624:PCW:H283	0.40	1.93	8	1
2:B:18:ALA:HB2	5:B:237:GNP:O2A	0.40	2.15	10	1
3:C:603:PCW:H412	3:C:603:PCW:H371	0.40	1.94	10	1
1:C:434:THR:HB	1:C:438:ARG:CZ	0.40	2.47	5	1
4:B:226:17F:H74	3:C:621:PCW:H483	0.40	1.93	5	1
3:B:217:PCW:H421	3:B:223:PCW:H382	0.40	1.92	6	1
3:B:208:PCW:H361	3:B:234:PCW:H282	0.40	1.92	6	1
1:C:463:TRP:O	1:C:467:MET:HB2	0.40	2.17	6	1
1:A:268:GLU:OE1	1:C:506:ARG:HD3	0.40	2.17	7	1
3:A:410:PCW:H381	4:C:630:17F:H12A	0.40	1.94	7	1
1:A:352:LYS:O	1:A:356:HIS:HB2	0.40	2.17	4	1
3:B:206:PCW:H372	3:B:206:PCW:H431	0.40	1.94	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
3:A:411:PCW:O11	3:A:411:PCW:H41	0.40	2.16	1	1
2:B:134:ALA:HB1	2:B:139:ILE:O	0.40	2.16	1	1

5.2 Torsion angles [i](#)

5.2.1 Protein backbone [i](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	157/200 (78%)	153±1 (98±1%)	3±1 (2±1%)	1±0 (1±0%)	29	74
1	C	195/200 (98%)	190±1 (98±1%)	4±2 (2±1%)	1±0 (1±0%)	32	76
2	B	171/187 (91%)	160±4 (94±2%)	10±4 (6±3%)	1±1 (0±0%)	44	80
All	All	5230/5870 (89%)	5036 (96%)	169 (3%)	25 (0%)	32	76

All 8 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	10
1	C	563	LYS	9
2	B	119	ASP	1
2	B	14	VAL	1
1	C	420	GLY	1
2	B	60	GLY	1
2	B	34	PRO	1
2	B	117	LYS	1

5.2.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	135/175 (77%)	123±3 (91±2%)	12±3 (9±2%)	14	60
1	C	172/175 (98%)	157±3 (91±2%)	15±3 (9±2%)	14	60
2	B	152/166 (92%)	136±2 (89±1%)	16±2 (11±1%)	10	55
All	All	4590/5160 (89%)	4162 (91%)	428 (9%)	12	59

All 173 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	9
2	B	127	THR	9
2	B	74	THR	9
2	B	58	THR	8
2	B	35	THR	8
2	B	87	THR	8
2	B	124	THR	8
1	A	312	HIS	8
1	C	516	THR	8
1	C	550	LYS	8
1	A	392	GLU	8
1	C	480	GLU	7
2	B	122	SER	7
1	C	455	TYR	6
2	B	2	THR	6
1	A	354	THR	6
2	B	32	TYR	5
1	A	246	ASP	5
2	B	6	LEU	5
1	C	594	LYS	5
2	B	17	SER	5
1	A	318	THR	5
1	C	459	PHE	5
2	B	154	ASP	5
1	A	293	GLU	5
1	C	580	PHE	4
2	B	89	SER	4
1	A	370	ASP	4
1	A	272	TYR	4
1	A	265	TRP	4
2	B	170	MET	4
1	C	568	ASP	4
1	C	405	TRP	4

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Mol	Chain	Res	Type	Models (Total)
1	C	444	ASP	4
1	C	505	ASP	4
2	B	50	THR	4
1	C	403	ASP	4
1	A	292	HIS	3
2	B	148	THR	3
1	C	467	MET	3
1	C	552	THR	3
1	A	350	HIS	3
1	C	466	GLU	3
1	A	385	SER	3
2	B	95	HIS	3
2	B	92	ASP	3
2	B	54	ASP	3
1	A	314	ASP	3
1	C	463	TRP	3
1	C	418	GLN	3
2	B	136	SER	3
2	B	20	THR	3
1	C	487	GLN	3
1	C	412	PHE	3
1	C	447	GLU	3
1	A	274	GLN	3
1	C	451	LYS	3
1	A	319	HIS	3
1	C	512	ASP	3
1	A	394	THR	3
1	C	407	SER	3
2	B	39	SER	2
1	A	264	LYS	2
1	A	255	GLN	2
2	B	145	SER	2
2	B	158	THR	2
1	A	296	GLU	2
2	B	99	GLN	2
1	A	325	ASP	2
1	A	371	LEU	2
1	C	448	VAL	2
1	C	546	GLU	2
2	B	31	GLU	2
1	C	592	THR	2
1	A	356	HIS	2

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Mol	Chain	Res	Type	Models (Total)
2	B	144	THR	2
2	B	49	GLU	2
1	C	410	SER	2
2	B	108	ASP	2
1	C	561	LYS	2
1	A	327	LEU	2
2	B	131	GLN	2
1	C	404	ASN	2
1	C	523	ASP	2
1	C	434	THR	2
1	A	299	SER	2
1	C	583	SER	2
1	C	490	HIS	2
2	B	102	ARG	2
1	C	482	GLN	1
1	A	358	SER	1
2	B	69	ASP	1
1	C	457	ASP	1
2	B	4	TYR	1
1	C	559	SER	1
2	B	118	CYS	1
1	C	494	GLU	1
1	C	584	PHE	1
2	B	65	SER	1
1	C	501	GLU	1
2	B	153	ASP	1
2	B	62	GLU	1
1	C	443	LYS	1
1	C	425	GLU	1
1	A	243	MET	1
1	A	270	GLU	1
1	C	576	VAL	1
1	A	261	PHE	1
1	A	360	LEU	1
1	A	283	LEU	1
1	A	307	ASP	1
1	C	554	HIS	1
2	B	51	CYS	1
2	B	171	SER	1
1	C	495	LYS	1
1	C	426	PHE	1
1	A	336	GLU	1

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Mol	Chain	Res	Type	Models (Total)
1	C	521	TYR	1
1	A	304	GLU	1
1	A	378	VAL	1
1	C	427	TRP	1
2	B	16	LYS	1
2	B	43	GLN	1
2	B	41	ARG	1
2	B	161	ARG	1
1	A	249	GLU	1
1	C	429	ASN	1
2	B	114	VAL	1
1	C	473	LYS	1
1	C	548	HIS	1
1	A	381	SER	1
1	C	461	LYS	1
1	A	266	GLN	1
1	C	409	THR	1
1	A	361	SER	1
2	B	80	CYS	1
1	C	560	GLU	1
2	B	106	SER	1
2	B	29	VAL	1
1	C	433	GLU	1
1	C	464	GLN	1
1	C	556	SER	1
1	A	241	GLN	1
1	A	348	GLU	1
1	A	290	LYS	1
1	C	558	LEU	1
1	A	305	MET	1
2	B	119	ASP	1
1	C	415	LEU	1
2	B	71	TYR	1
2	B	132	ASP	1
2	B	47	ASP	1
1	C	402	LEU	1
1	A	284	GLN	1
1	A	273	ARG	1
1	C	460	GLN	1
1	C	522	SER	1
1	A	359	THR	1
2	B	3	GLU	1

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Mol	Chain	Res	Type	Models (Total)
2	B	73	ARG	1
1	C	566	LEU	1
1	A	368	LEU	1
1	C	557	THR	1
1	C	401	LEU	1
2	B	30	ASP	1
2	B	149	ARG	1
1	C	596	ASN	1
2	B	142	ILE	1
2	B	166	HIS	1
1	C	472	GLN	1
2	B	96	TYR	1
2	B	109	VAL	1
1	C	477	LEU	1

5.2.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.4 Carbohydrates [i](#)

There are no carbohydrates in this entry.

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5.5 Other polymers [i](#)

There are no such molecules in this entry.

5.6 Polymer linkage issues [i](#)

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}N	84	-0.46 ± 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 6737. 3 out of 99 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	154/2586 (6%)	77/1031 (7%)	0/1048 (0%)	77/507 (15%)
Sidechain	50/3745 (1%)	25/2196 (1%)	25/1354 (2%)	0/195 (0%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/406 (0%)	0/222 (0%)	0/176 (0%)	0/8 (0%)
Overall	204/6737 (3%)	102/3449 (3%)	25/2578 (1%)	77/710 (11%)

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	¹ H	¹³ C	¹⁵ 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:

