



# Full wwPDB NMR Structure Validation Report ⓘ

May 28, 2020 – 09:29 pm BST

PDB ID : 2C52  
Title : Structural diversity in CBP p160 complexes  
Authors : Waters, L.C.; Yue, B.; Veverka, V.; Renshaw, P.S.; Bramham, J.; Matsuda, S.; Frenkiel, T.; Kelly, G.; Muskett, F.W.; Carr, M.D.; Heery, D.M.  
Deposited on : 2005-10-25

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

Cyrange : Kirchner and Güntert (2011)  
NmrClust : Kelley et al. (1996)  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
ShiftChecker : 2.11  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.11

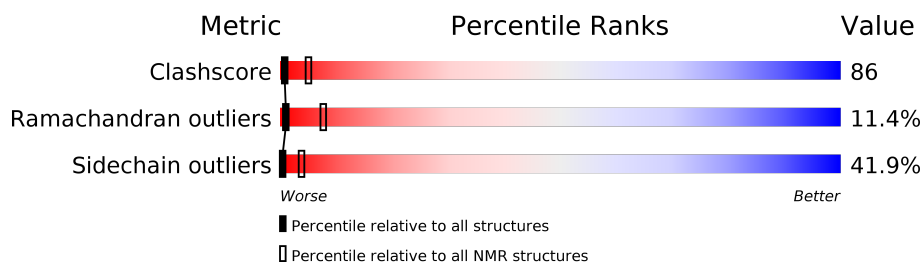
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment was not calculated.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	59	 5% 54% 25% 10%
2	B	59	 8% 44% 27% 20%

## 2 Ensemble composition and analysis i

This entry contains 37 models. Model 2 is the overall representative, medoid model (most similar to other models). The authors have identified model 20 as representative.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:5-A:56, B:311-B:346, B:351-B:361 (99)	0.45	2

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

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

The models can be grouped into 3 clusters and 1 single-model cluster was found.

Cluster number	Models
1	2, 3, 4, 5, 6, 8, 9, 11, 12, 13, 14, 16, 19, 23, 24, 25, 26, 28, 30, 32, 34, 35
2	7, 10, 15, 20, 21, 22, 27, 29, 31, 33, 36, 37
3	17, 18
Single-model clusters	1

### 3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1804 atoms, of which 913 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called CREB-BINDING PROTEIN.

Mol	Chain	Residues	Atoms					Trace	
			Total	C	H	N	O		S
1	A	58	910	281	460	84	83	2	0

- Molecule 2 is a protein called NUCLEAR RECEPTOR COACTIVATOR 1.

Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
2	B	59	894	275	453	75	91	0

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

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

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

- Molecule 1: CREB-BINDING PROTEIN

Chain A: 



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 

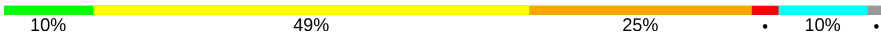


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

- Molecule 1: CREB-BINDING PROTEIN

Chain A: 



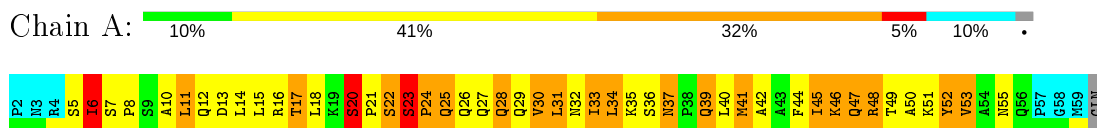
- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 

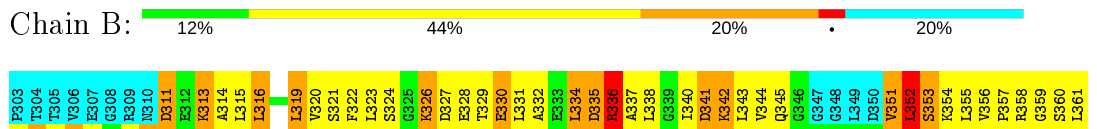


### 4.2.2 Score per residue for model 2 (medoid)

- Molecule 1: CREB-BINDING PROTEIN

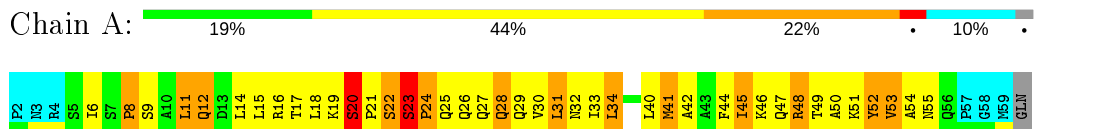


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

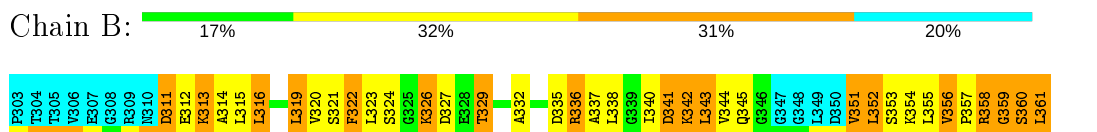


### 4.2.3 Score per residue for model 3

- Molecule 1: CREB-BINDING PROTEIN

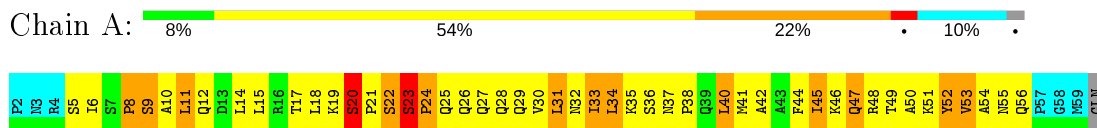


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

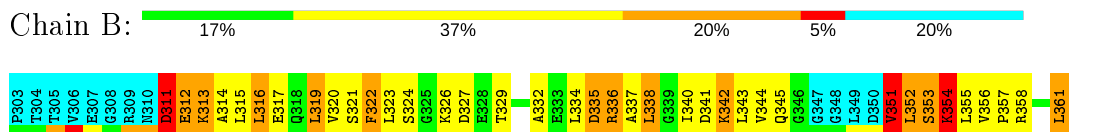


### 4.2.4 Score per residue for model 4

- Molecule 1: CREB-BINDING PROTEIN

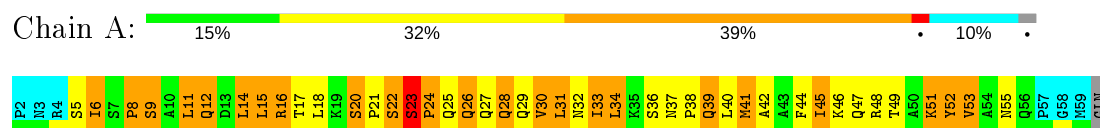


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

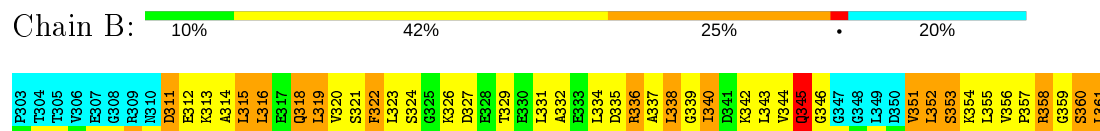


### 4.2.5 Score per residue for model 5

- Molecule 1: CREB-BINDING PROTEIN

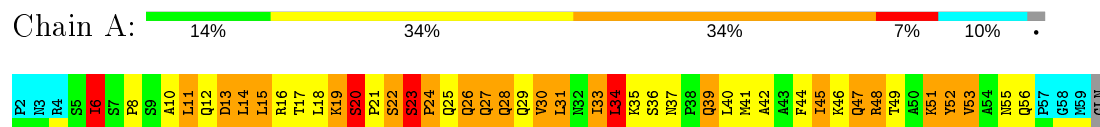


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

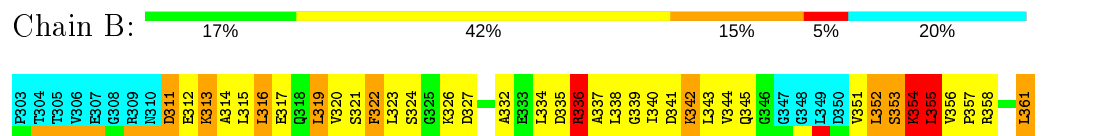


### 4.2.6 Score per residue for model 6

- Molecule 1: CREB-BINDING PROTEIN

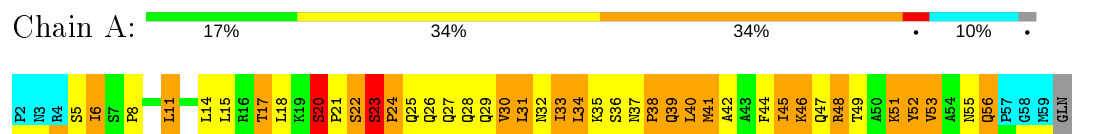


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

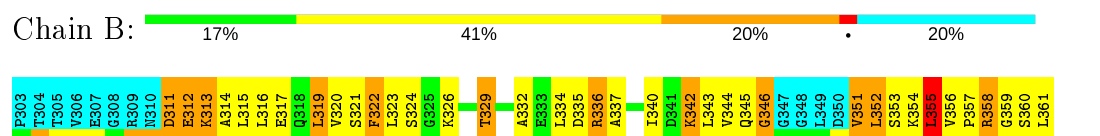


### 4.2.7 Score per residue for model 7

- Molecule 1: CREB-BINDING PROTEIN

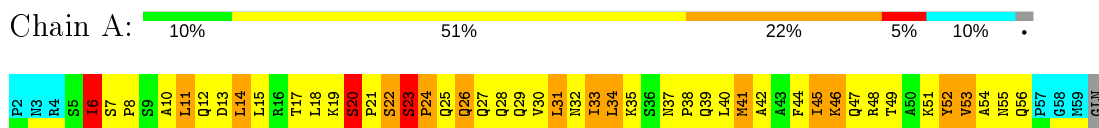


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

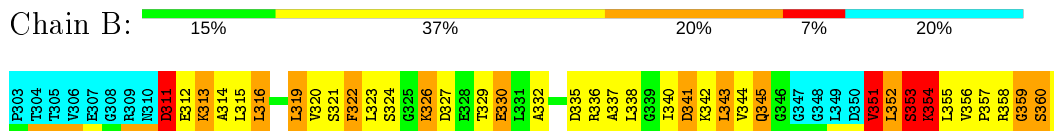


### 4.2.8 Score per residue for model 8

- Molecule 1: CREB-BINDING PROTEIN

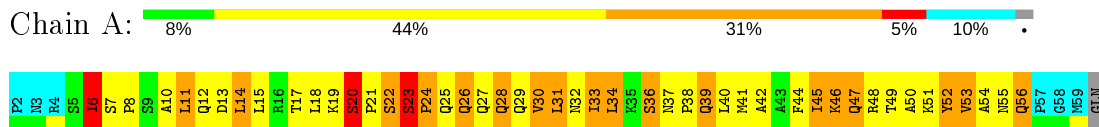


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

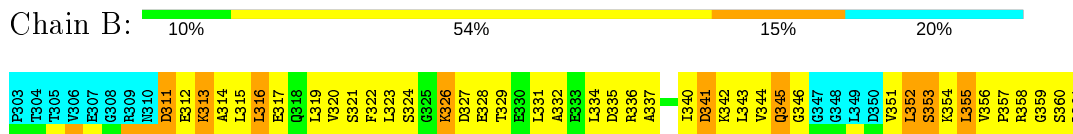


### 4.2.9 Score per residue for model 9

- Molecule 1: CREB-BINDING PROTEIN

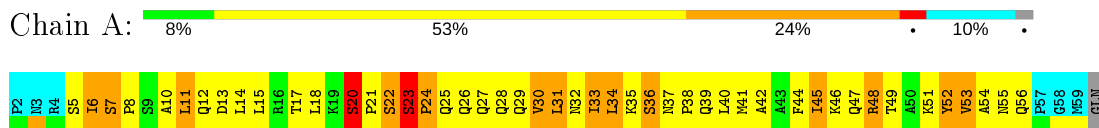


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

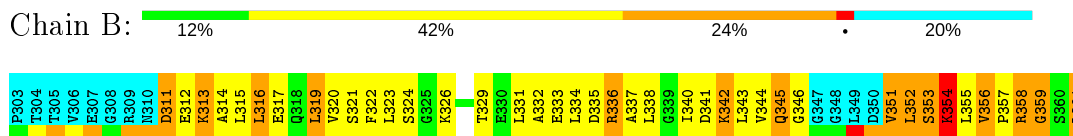


### 4.2.10 Score per residue for model 10

- Molecule 1: CREB-BINDING PROTEIN



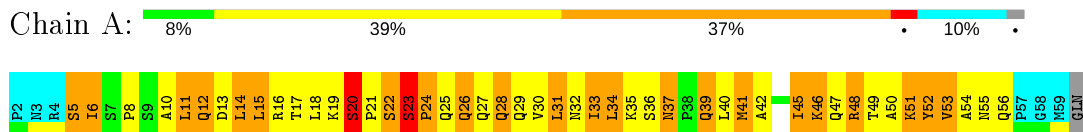
- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1



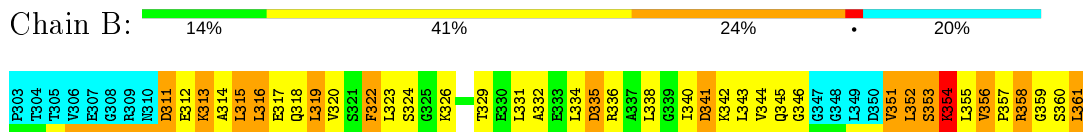


### 4.2.11 Score per residue for model 11

- Molecule 1: CREB-BINDING PROTEIN

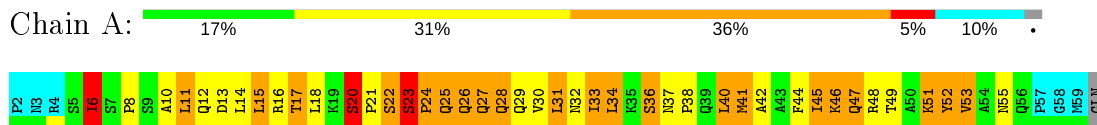


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

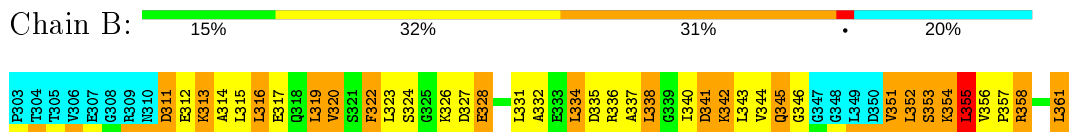


### 4.2.12 Score per residue for model 12

- Molecule 1: CREB-BINDING PROTEIN

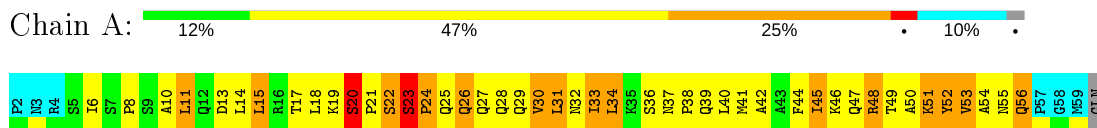


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

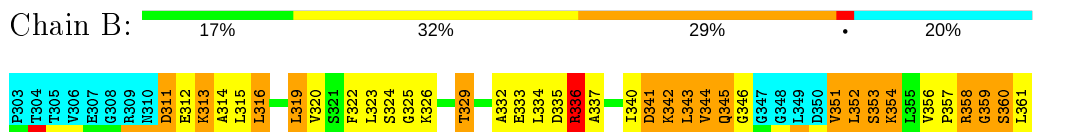


### 4.2.13 Score per residue for model 13

- Molecule 1: CREB-BINDING PROTEIN

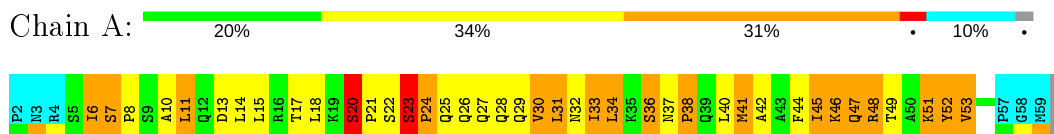


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

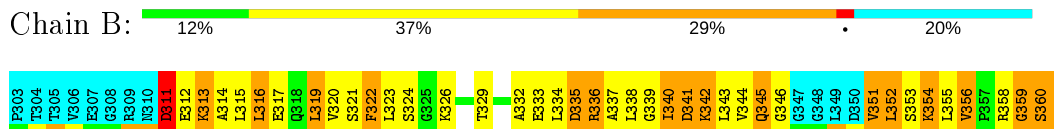


## 4.2.14 Score per residue for model 14

## • Molecule 1: CREB-BINDING PROTEIN

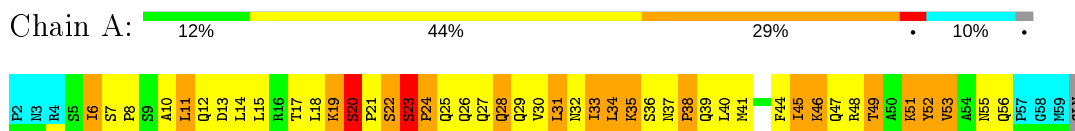


## • Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

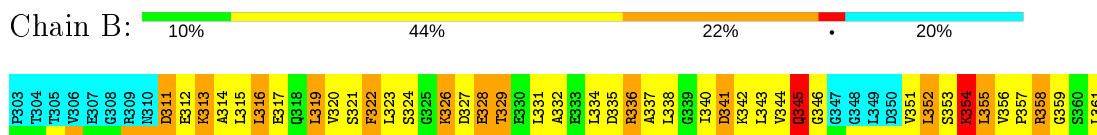


## 4.2.15 Score per residue for model 15

## • Molecule 1: CREB-BINDING PROTEIN

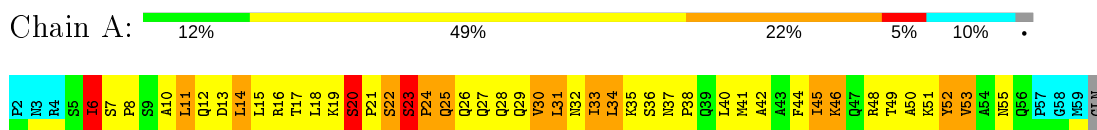


## • Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

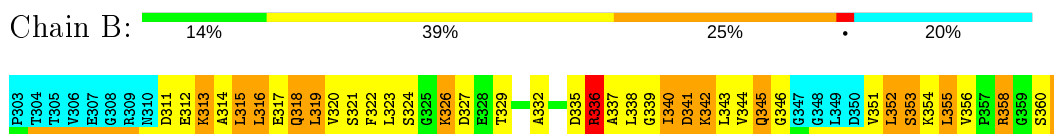


## 4.2.16 Score per residue for model 16

## • Molecule 1: CREB-BINDING PROTEIN

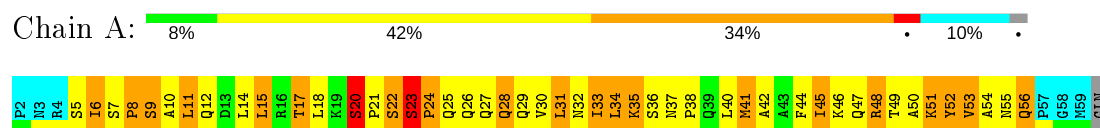


## • Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

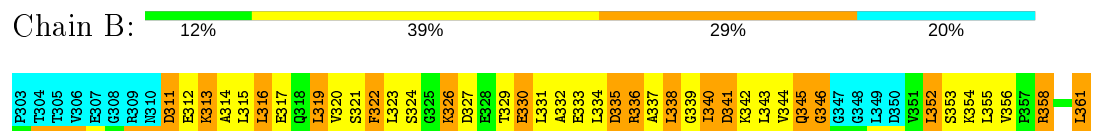


### 4.2.17 Score per residue for model 17

- Molecule 1: CREB-BINDING PROTEIN

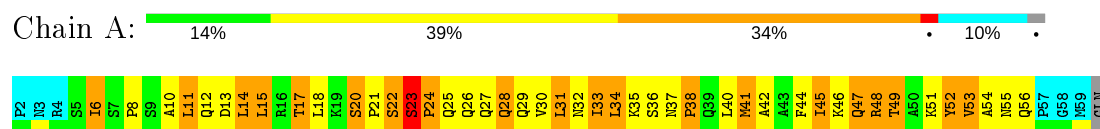


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

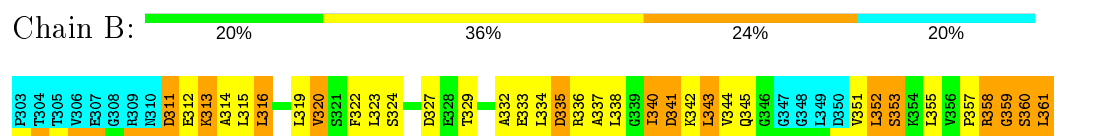


### 4.2.18 Score per residue for model 18

- Molecule 1: CREB-BINDING PROTEIN

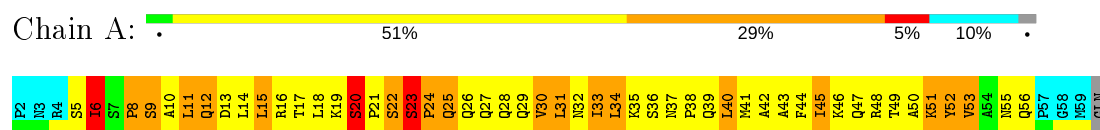


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

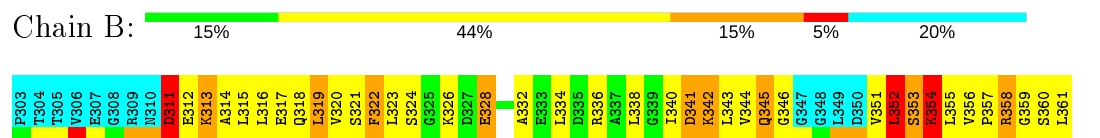


### 4.2.19 Score per residue for model 19

- Molecule 1: CREB-BINDING PROTEIN

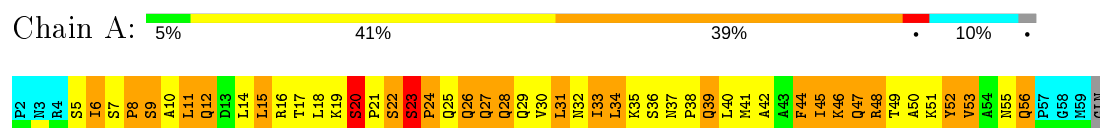


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

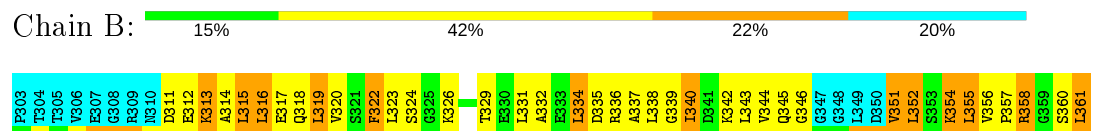


#### 4.2.20 Score per residue for model 20

- Molecule 1: CREB-BINDING PROTEIN

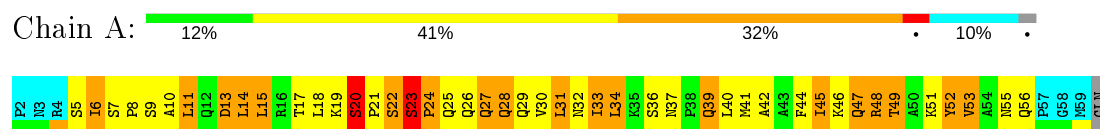


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

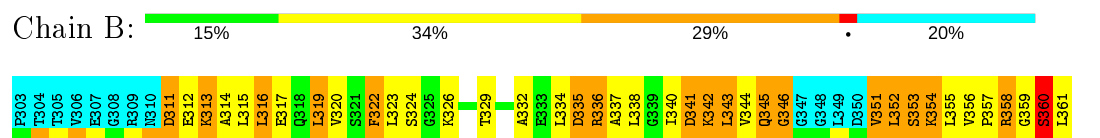


#### 4.2.21 Score per residue for model 21

- Molecule 1: CREB-BINDING PROTEIN

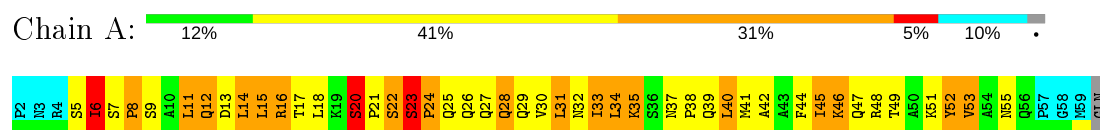


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

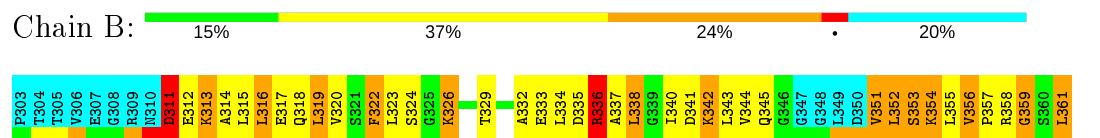


#### 4.2.22 Score per residue for model 22

- Molecule 1: CREB-BINDING PROTEIN

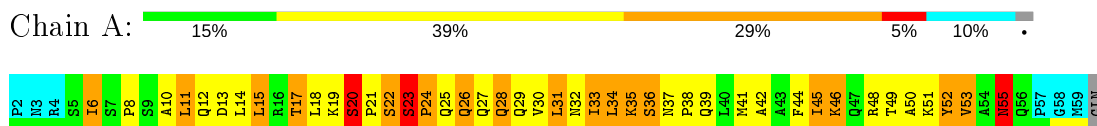


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

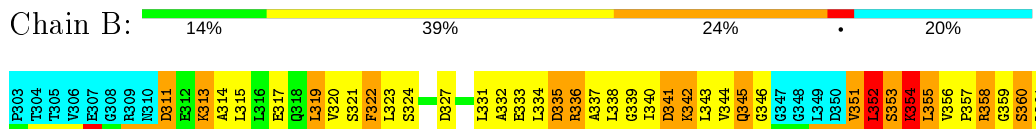


### 4.2.23 Score per residue for model 23

- Molecule 1: CREB-BINDING PROTEIN

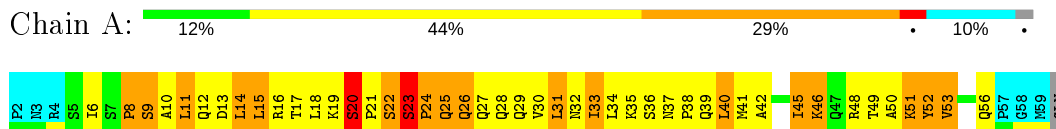


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

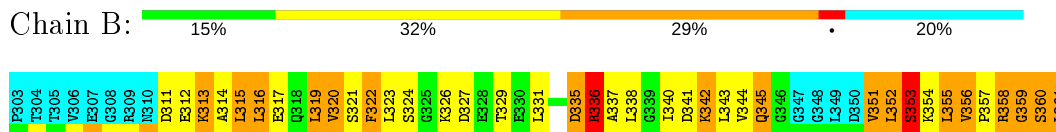


### 4.2.24 Score per residue for model 24

- Molecule 1: CREB-BINDING PROTEIN

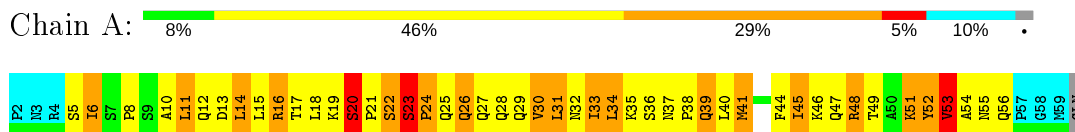


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

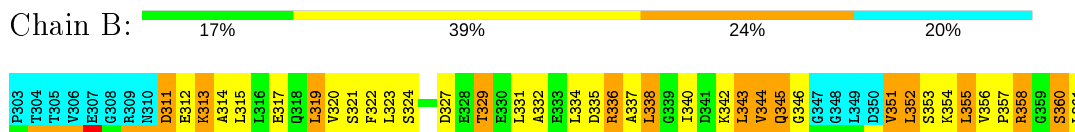


### 4.2.25 Score per residue for model 25

- Molecule 1: CREB-BINDING PROTEIN



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1




#### 4.2.26 Score per residue for model 26

- Molecule 1: CREB-BINDING PROTEIN

Chain A: 



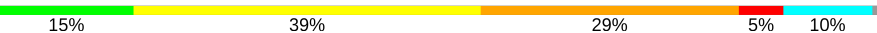
- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 



#### 4.2.27 Score per residue for model 27

- Molecule 1: CREB-BINDING PROTEIN

Chain A: 




- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

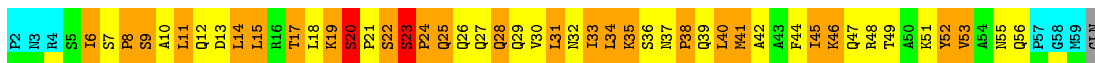
Chain B: 




#### 4.2.28 Score per residue for model 28

- Molecule 1: CREB-BINDING PROTEIN

Chain A: 



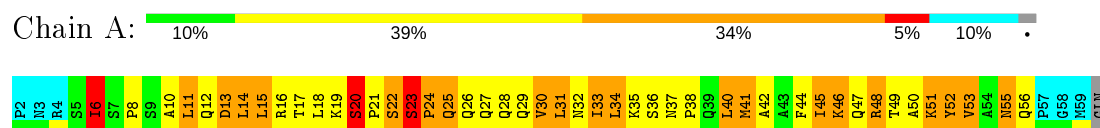
- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 

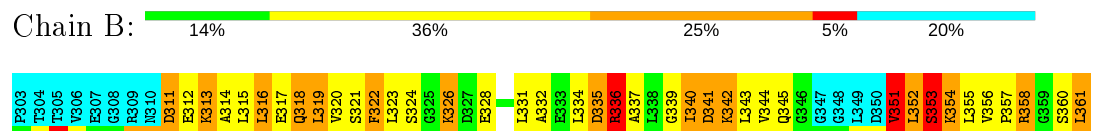


### 4.2.29 Score per residue for model 29

- Molecule 1: CREB-BINDING PROTEIN

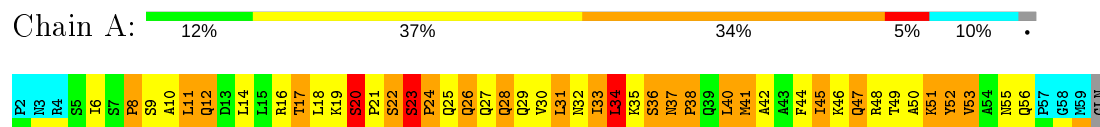


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

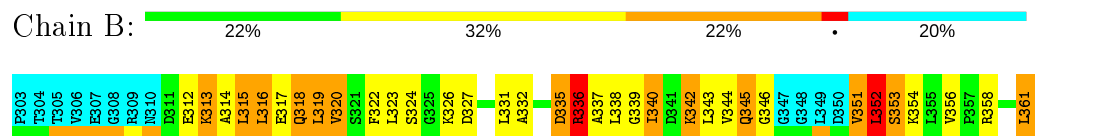


### 4.2.30 Score per residue for model 30

- Molecule 1: CREB-BINDING PROTEIN

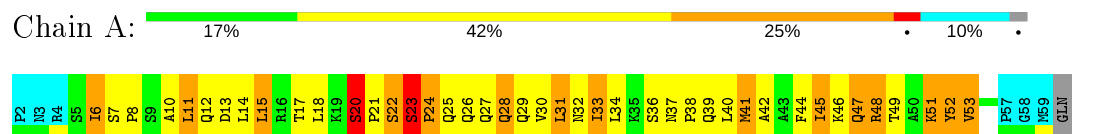


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

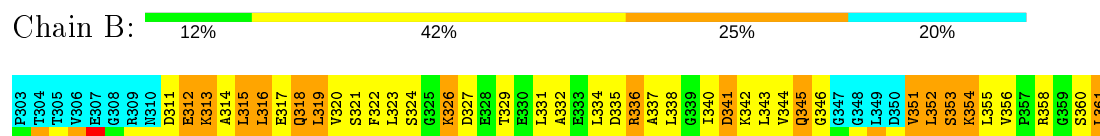


### 4.2.31 Score per residue for model 31

- Molecule 1: CREB-BINDING PROTEIN

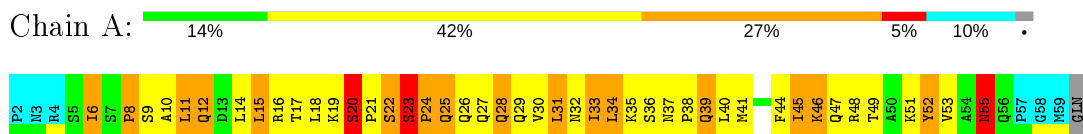


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

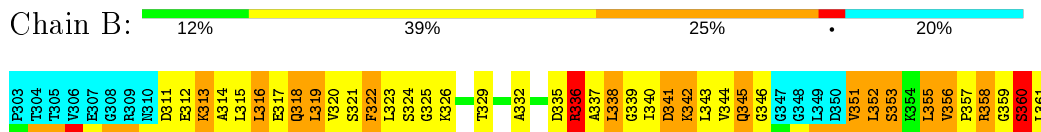


### 4.2.32 Score per residue for model 32

- Molecule 1: CREB-BINDING PROTEIN

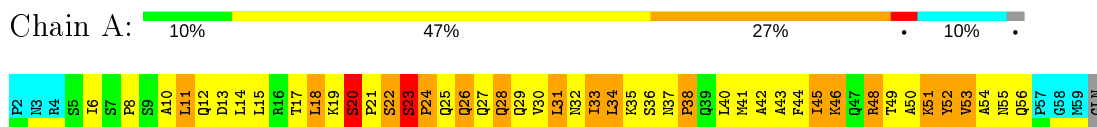


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

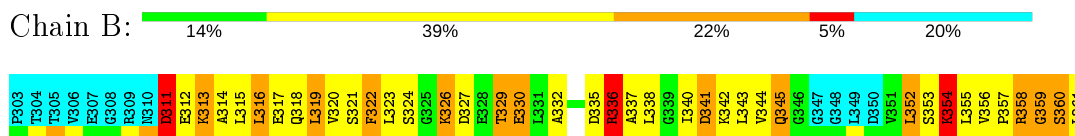


### 4.2.33 Score per residue for model 33

- Molecule 1: CREB-BINDING PROTEIN

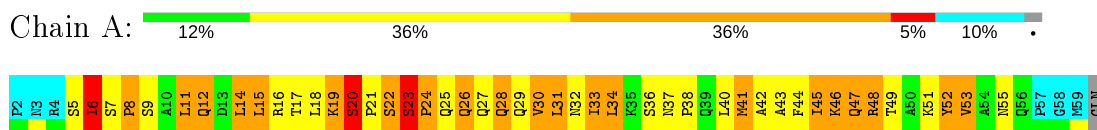


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

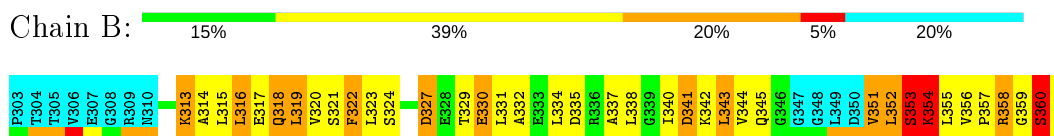


### 4.2.34 Score per residue for model 34

- Molecule 1: CREB-BINDING PROTEIN



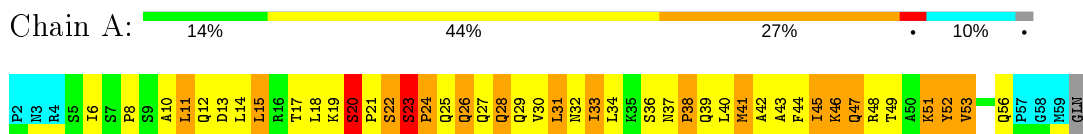
- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1



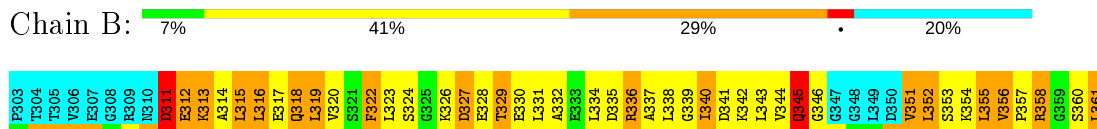


### 4.2.35 Score per residue for model 35

- Molecule 1: CREB-BINDING PROTEIN

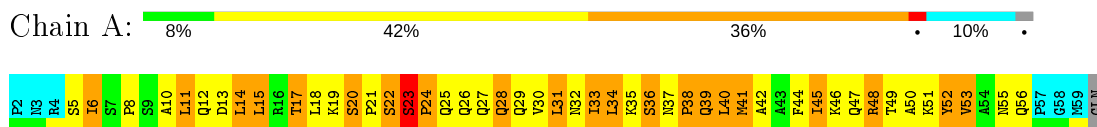


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

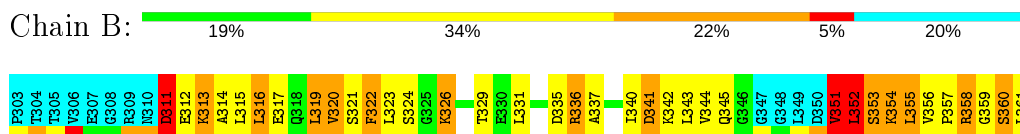


### 4.2.36 Score per residue for model 36

- Molecule 1: CREB-BINDING PROTEIN

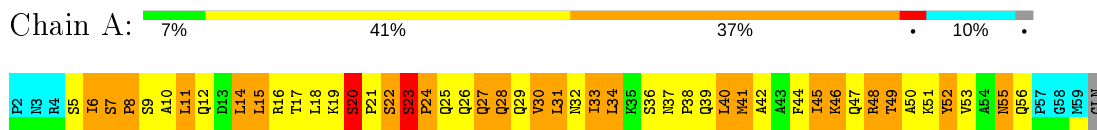


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

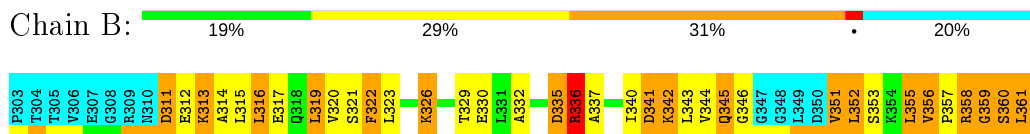


### 4.2.37 Score per residue for model 37

- Molecule 1: CREB-BINDING PROTEIN



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *CANDID*.

Of the ? calculated structures, 37 were deposited, based on the following criterion: ?.

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

Software name	Classification	Version
CYANA	refinement	
CYANA	structure solution	

No chemical shift data was provided. No validations of the models with respect to experimental NMR restraints is performed at this time.

## 6 Model quality

### 6.1 Standard geometry

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 6.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	405	416	429	85±9
2	B	357	373	378	66±10
All	All	28194	29193	29859	4997

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 86.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:18:LEU:HD22	2:B:323:LEU:HD21	1.10	1.23	36	9
1:A:14:LEU:HD22	1:A:40:LEU:HD21	1.06	1.19	30	2
1:A:14:LEU:HD12	1:A:40:LEU:HD11	1.04	1.11	3	4
1:A:48:ARG:HH21	2:B:323:LEU:HD13	1.02	1.11	27	2
1:A:11:LEU:HD22	1:A:11:LEU:C	1.02	1.74	19	9
1:A:52:TYR:CG	2:B:352:LEU:HD11	0.99	1.92	14	12
1:A:14:LEU:HD12	1:A:40:LEU:CD1	0.97	1.89	3	3
1:A:15:LEU:O	1:A:15:LEU:HD22	0.97	1.59	11	12
1:A:37:ASN:CB	1:A:40:LEU:HD12	0.97	1.89	13	5
1:A:48:ARG:NH1	2:B:323:LEU:HD13	0.97	1.75	36	4
1:A:15:LEU:HD22	1:A:15:LEU:O	0.96	1.60	32	7
1:A:52:TYR:CE1	2:B:344:VAL:HG13	0.95	1.96	30	10
2:B:319:LEU:HD13	2:B:320:VAL:N	0.94	1.78	1	17

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:342:LYS:N	2:B:342:LYS:HZ2	0.94	1.60	21	1
2:B:344:VAL:O	2:B:351:VAL:HG11	0.93	1.63	8	13
2:B:316:LEU:O	2:B:320:VAL:HG12	0.93	1.63	31	4
1:A:51:LYS:CE	2:B:338:LEU:HD13	0.93	1.94	8	4
2:B:319:LEU:O	2:B:319:LEU:HD22	0.93	1.64	2	8
1:A:8:PRO:HA	1:A:11:LEU:HD11	0.92	1.41	16	5
2:B:338:LEU:HD12	2:B:341:ASP:OD2	0.92	1.63	19	3
1:A:48:ARG:HH21	2:B:340:ILE:HD13	0.92	1.22	20	3
1:A:51:LYS:NZ	2:B:338:LEU:HD13	0.91	1.79	15	3
1:A:14:LEU:CD2	1:A:40:LEU:HD21	0.91	1.94	30	2
1:A:48:ARG:CD	2:B:343:LEU:HD13	0.90	1.96	27	1
2:B:342:LYS:H	2:B:342:LYS:HZ3	0.90	0.98	3	1
2:B:338:LEU:HD12	2:B:341:ASP:OD1	0.90	1.67	34	1
2:B:316:LEU:O	2:B:320:VAL:HG23	0.90	1.67	21	19
1:A:11:LEU:HD13	2:B:315:LEU:HD12	0.90	1.39	21	5
2:B:342:LYS:H	2:B:342:LYS:HZ2	0.89	0.94	21	1
1:A:8:PRO:O	1:A:11:LEU:HD23	0.88	1.68	20	7
1:A:14:LEU:CD1	1:A:40:LEU:HD11	0.88	1.98	4	2
1:A:18:LEU:HD21	1:A:44:PHE:CE2	0.87	2.05	30	3
1:A:30:VAL:O	1:A:34:LEU:HD22	0.86	1.70	18	14
1:A:11:LEU:HD13	2:B:315:LEU:HD13	0.86	1.45	37	1
2:B:343:LEU:HD23	2:B:343:LEU:C	0.86	1.90	28	1
2:B:316:LEU:O	2:B:320:VAL:HG13	0.86	1.69	18	10
1:A:11:LEU:HD13	2:B:315:LEU:CD1	0.84	2.00	37	3
1:A:37:ASN:HB3	1:A:40:LEU:HD12	0.84	1.48	20	6
1:A:52:TYR:CD2	2:B:352:LEU:HD11	0.84	2.08	33	8
2:B:343:LEU:HD23	2:B:344:VAL:N	0.83	1.89	28	1
1:A:8:PRO:O	1:A:11:LEU:HD21	0.82	1.73	9	15
1:A:14:LEU:HD23	2:B:319:LEU:HG	0.82	1.51	1	7
2:B:338:LEU:HD23	2:B:341:ASP:OD1	0.82	1.73	1	1
2:B:352:LEU:HD13	2:B:352:LEU:N	0.82	1.89	30	8
1:A:14:LEU:HD22	2:B:319:LEU:HG	0.82	1.49	7	2
2:B:338:LEU:HD22	2:B:341:ASP:OD1	0.82	1.75	16	3
2:B:313:LYS:HE2	2:B:314:ALA:HB2	0.81	1.52	37	22
1:A:52:TYR:CG	2:B:352:LEU:HD22	0.81	2.11	1	7
1:A:11:LEU:HD13	1:A:12:GLN:N	0.81	1.90	28	9
1:A:14:LEU:HD23	1:A:40:LEU:HD11	0.81	1.50	24	1
1:A:14:LEU:HD22	1:A:40:LEU:HD11	0.81	1.50	14	4
1:A:47:GLN:CD	2:B:320:VAL:HG13	0.81	1.96	8	5
1:A:14:LEU:HB3	2:B:319:LEU:HD22	0.81	1.53	8	1
2:B:358:ARG:HB3	2:B:361:LEU:HD11	0.80	1.51	36	25

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:319:LEU:C	2:B:319:LEU:HD13	0.80	1.97	11	5
1:A:11:LEU:HD13	2:B:315:LEU:HG	0.80	1.53	22	2
1:A:18:LEU:CD2	2:B:323:LEU:HD21	0.80	2.05	2	8
2:B:356:VAL:HG21	2:B:359:GLY:O	0.80	1.77	9	5
1:A:52:TYR:HB3	2:B:352:LEU:HD12	0.80	1.53	28	6
1:A:14:LEU:HD21	1:A:44:PHE:CD2	0.80	2.11	36	8
2:B:319:LEU:C	2:B:319:LEU:HD22	0.80	1.97	10	5
1:A:10:ALA:HB1	1:A:37:ASN:OD1	0.80	1.76	24	3
1:A:48:ARG:NH2	2:B:323:LEU:HD22	0.79	1.92	37	1
2:B:342:LYS:H	2:B:342:LYS:NZ	0.79	1.74	21	2
1:A:48:ARG:HD3	2:B:343:LEU:HD22	0.79	1.52	21	1
1:A:30:VAL:C	1:A:34:LEU:HD22	0.79	1.98	15	13
1:A:14:LEU:HD11	1:A:44:PHE:CD2	0.78	2.13	23	11
2:B:340:ILE:HB	2:B:343:LEU:HD12	0.78	1.53	35	4
1:A:17:THR:HG23	1:A:29:GLN:CB	0.78	2.08	20	37
2:B:311:ASP:N	2:B:314:ALA:HB3	0.78	1.93	36	25
2:B:343:LEU:O	2:B:343:LEU:HD12	0.78	1.77	13	1
1:A:48:ARG:CZ	2:B:343:LEU:HD22	0.78	2.08	22	1
2:B:344:VAL:O	2:B:351:VAL:HG21	0.78	1.78	37	3
2:B:340:ILE:CG2	2:B:343:LEU:HD21	0.78	2.09	27	1
2:B:319:LEU:HD13	2:B:319:LEU:C	0.78	2.00	22	5
1:A:48:ARG:NH2	2:B:323:LEU:HD13	0.78	1.93	27	2
1:A:14:LEU:HD12	1:A:33:ILE:CD1	0.78	2.09	27	2
2:B:352:LEU:N	2:B:352:LEU:HD13	0.78	1.93	33	11
1:A:11:LEU:H	1:A:11:LEU:HD13	0.77	1.39	18	12
1:A:47:GLN:CD	2:B:320:VAL:HG23	0.77	1.99	12	1
1:A:48:ARG:NH1	2:B:343:LEU:HD22	0.77	1.94	15	2
1:A:14:LEU:CD2	2:B:319:LEU:HD13	0.77	2.09	4	4
2:B:319:LEU:HD22	2:B:319:LEU:C	0.77	2.00	34	5
2:B:361:LEU:N	2:B:361:LEU:HD22	0.77	1.95	31	12
1:A:47:GLN:HG2	2:B:320:VAL:HG23	0.77	1.56	31	2
1:A:33:ILE:O	1:A:37:ASN:N	0.77	2.18	6	36
1:A:40:LEU:C	1:A:40:LEU:HD13	0.77	2.01	4	4
1:A:18:LEU:CD1	2:B:323:LEU:HD21	0.76	2.11	11	10
2:B:351:VAL:HG11	2:B:361:LEU:HD23	0.76	1.58	10	2
2:B:344:VAL:HG11	2:B:352:LEU:HD21	0.76	1.55	5	1
2:B:340:ILE:HB	2:B:343:LEU:HD13	0.76	1.58	22	4
1:A:11:LEU:CD2	1:A:11:LEU:C	0.76	2.52	19	7
2:B:343:LEU:C	2:B:343:LEU:HD12	0.76	2.00	13	1
2:B:352:LEU:N	2:B:352:LEU:HD22	0.76	1.95	10	9
2:B:358:ARG:HB3	2:B:361:LEU:HD21	0.76	1.57	11	26

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:319:LEU:O	2:B:319:LEU:HD12	0.76	1.81	21	2
1:A:14:LEU:HD22	2:B:319:LEU:CD2	0.75	2.11	3	4
1:A:11:LEU:HD13	1:A:12:GLN:H	0.75	1.40	28	5
2:B:361:LEU:HD22	2:B:361:LEU:N	0.75	1.97	6	17
1:A:48:ARG:HH21	2:B:340:ILE:CD1	0.75	1.94	20	3
1:A:15:LEU:HD23	2:B:322:PHE:CE2	0.75	2.17	32	1
1:A:40:LEU:C	1:A:40:LEU:HD23	0.75	2.02	30	1
2:B:319:LEU:HD22	2:B:319:LEU:O	0.75	1.82	34	8
1:A:14:LEU:HD23	2:B:319:LEU:CD2	0.75	2.11	14	4
1:A:51:LYS:HZ2	2:B:338:LEU:HD13	0.75	1.41	15	1
1:A:15:LEU:HA	1:A:18:LEU:HD12	0.74	1.59	12	2
2:B:358:ARG:HB2	2:B:361:LEU:HD21	0.74	1.58	25	3
1:A:14:LEU:HD21	1:A:44:PHE:HB2	0.74	1.58	14	6
2:B:344:VAL:HG13	2:B:357:PRO:CB	0.74	2.12	37	20
2:B:340:ILE:HB	2:B:343:LEU:HD23	0.74	1.59	37	11
1:A:14:LEU:HD13	2:B:319:LEU:CD2	0.74	2.12	33	5
1:A:46:LYS:O	1:A:50:ALA:HB2	0.74	1.82	30	16
2:B:334:LEU:HD22	2:B:334:LEU:C	0.74	2.01	12	1
1:A:18:LEU:HD13	2:B:322:PHE:CE1	0.74	2.17	23	3
2:B:343:LEU:HD12	2:B:344:VAL:N	0.74	1.96	23	2
1:A:11:LEU:O	1:A:11:LEU:HD22	0.74	1.81	19	2
1:A:51:LYS:HG2	2:B:340:ILE:HD11	0.74	1.60	28	18
2:B:329:THR:HG23	2:B:336:ARG:HA	0.74	1.58	5	5
1:A:17:THR:HG22	1:A:26:GLN:NE2	0.74	1.98	17	2
1:A:18:LEU:CD1	2:B:319:LEU:HD23	0.74	2.12	23	1
1:A:18:LEU:HG	2:B:323:LEU:HD21	0.74	1.60	28	20
2:B:340:ILE:HB	2:B:343:LEU:HD22	0.74	1.59	34	1
1:A:52:TYR:N	1:A:52:TYR:CD1	0.73	2.55	13	19
2:B:319:LEU:HD12	2:B:319:LEU:C	0.73	2.04	19	3
1:A:52:TYR:CD1	2:B:352:LEU:HD22	0.73	2.19	23	2
1:A:14:LEU:HD23	2:B:319:LEU:HD22	0.73	1.59	14	3
1:A:52:TYR:CD1	1:A:52:TYR:N	0.73	2.56	16	18
1:A:52:TYR:CD1	2:B:352:LEU:HD11	0.73	2.18	15	11
1:A:6:ILE:HG21	1:A:40:LEU:HD21	0.73	1.61	2	7
2:B:332:ALA:HB1	2:B:335:ASP:OD1	0.73	1.84	9	1
2:B:351:VAL:HG22	2:B:353:SER:H	0.72	1.44	22	2
2:B:351:VAL:HG23	2:B:361:LEU:HD23	0.72	1.60	36	1
1:A:47:GLN:OE1	2:B:320:VAL:HG13	0.72	1.83	22	4
1:A:11:LEU:HG	2:B:315:LEU:HD12	0.72	1.60	10	7
1:A:11:LEU:HD22	1:A:11:LEU:O	0.72	1.85	4	3
2:B:334:LEU:HD22	2:B:335:ASP:N	0.72	1.98	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:358:ARG:CB	2:B:361:LEU:HD21	0.72	2.13	11	16
1:A:48:ARG:NH2	2:B:340:ILE:HG21	0.72	2.00	21	2
2:B:344:VAL:CG2	2:B:351:VAL:HG23	0.72	2.15	28	3
2:B:316:LEU:O	2:B:320:VAL:HG22	0.72	1.84	9	3
1:A:51:LYS:HE3	2:B:338:LEU:HD13	0.72	1.62	27	3
1:A:8:PRO:HA	1:A:11:LEU:HD21	0.71	1.62	14	14
2:B:340:ILE:C	2:B:340:ILE:HD12	0.71	2.04	8	14
1:A:8:PRO:O	1:A:11:LEU:N	0.71	2.22	28	6
2:B:351:VAL:HG11	2:B:361:LEU:CD2	0.71	2.16	10	2
1:A:45:ILE:HD13	1:A:45:ILE:O	0.71	1.84	25	13
2:B:358:ARG:CB	2:B:361:LEU:HD11	0.71	2.15	27	31
1:A:14:LEU:HD12	2:B:319:LEU:HG	0.71	1.62	5	1
1:A:15:LEU:C	1:A:15:LEU:HD22	0.71	2.06	18	12
1:A:52:TYR:CD1	2:B:352:LEU:CD1	0.71	2.74	15	8
2:B:344:VAL:O	2:B:351:VAL:HG12	0.71	1.86	7	8
1:A:11:LEU:C	1:A:11:LEU:CD2	0.71	2.58	28	2
1:A:52:TYR:CG	2:B:352:LEU:HD12	0.71	2.20	35	2
1:A:20:SER:CB	1:A:21:PRO:CD	0.71	2.68	36	37
1:A:18:LEU:HD11	1:A:44:PHE:CE2	0.71	2.19	22	11
1:A:6:ILE:HG21	1:A:40:LEU:CD2	0.71	2.15	22	9
1:A:52:TYR:CD1	2:B:352:LEU:CD2	0.71	2.74	23	4
2:B:319:LEU:HD12	2:B:319:LEU:O	0.70	1.86	24	5
1:A:52:TYR:CZ	2:B:344:VAL:HG13	0.70	2.20	16	10
1:A:14:LEU:HD12	1:A:14:LEU:C	0.70	2.05	34	1
2:B:342:LYS:HZ3	2:B:342:LYS:N	0.70	1.79	3	1
1:A:52:TYR:CD2	2:B:352:LEU:CD2	0.70	2.75	29	3
1:A:17:THR:HG23	1:A:29:GLN:HB2	0.70	1.64	26	37
2:B:340:ILE:O	2:B:340:ILE:HD12	0.70	1.87	34	12
1:A:51:LYS:HD2	2:B:338:LEU:HD23	0.70	1.63	5	1
2:B:312:GLU:HA	2:B:315:LEU:HD22	0.70	1.64	20	4
2:B:342:LYS:CD	2:B:342:LYS:N	0.70	2.54	24	1
1:A:14:LEU:O	1:A:18:LEU:HD22	0.70	1.86	1	12
1:A:17:THR:HG22	1:A:26:GLN:OE1	0.70	1.87	32	1
1:A:52:TYR:CD2	2:B:352:LEU:HD22	0.69	2.21	1	3
1:A:48:ARG:HD2	2:B:343:LEU:HD13	0.69	1.64	27	1
2:B:352:LEU:HD13	2:B:352:LEU:H	0.69	1.46	32	12
1:A:26:GLN:O	1:A:30:VAL:HG13	0.69	1.88	37	37
2:B:333:GLU:HG3	2:B:334:LEU:HD12	0.69	1.64	18	2
1:A:18:LEU:HD21	1:A:44:PHE:CZ	0.69	2.22	30	1
1:A:37:ASN:HB3	1:A:40:LEU:HD23	0.69	1.63	32	4
2:B:316:LEU:O	2:B:320:VAL:CG2	0.69	2.41	14	21

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:LEU:HD13	1:A:11:LEU:H	0.69	1.47	36	3
1:A:17:THR:HG21	1:A:33:ILE:HD11	0.69	1.62	30	7
2:B:339:GLY:O	2:B:340:ILE:HG23	0.69	1.86	27	9
2:B:355:LEU:O	2:B:356:VAL:C	0.69	2.31	10	26
2:B:322:PHE:CE1	2:B:326:LYS:NZ	0.69	2.61	7	4
1:A:47:GLN:NE2	2:B:320:VAL:HG13	0.68	2.03	35	4
2:B:332:ALA:HB1	2:B:335:ASP:HB3	0.68	1.65	23	7
1:A:14:LEU:HD12	1:A:33:ILE:HD12	0.68	1.65	27	1
1:A:45:ILE:O	1:A:45:ILE:HD13	0.68	1.88	13	18
1:A:14:LEU:HD12	2:B:319:LEU:HD13	0.68	1.64	36	3
1:A:11:LEU:CD1	2:B:315:LEU:HD12	0.68	2.19	7	3
1:A:18:LEU:HD11	1:A:44:PHE:CZ	0.68	2.24	27	4
2:B:338:LEU:HD12	2:B:341:ASP:CG	0.68	2.10	8	3
2:B:313:LYS:CE	2:B:314:ALA:HB2	0.67	2.19	10	22
1:A:40:LEU:HD13	1:A:40:LEU:C	0.67	2.10	3	2
2:B:322:PHE:CZ	2:B:326:LYS:NZ	0.67	2.62	35	2
2:B:340:ILE:HD12	2:B:340:ILE:C	0.67	2.10	15	15
1:A:34:LEU:HD21	1:A:44:PHE:CD2	0.67	2.23	13	1
1:A:14:LEU:HD22	1:A:40:LEU:CD2	0.67	2.20	10	1
2:B:333:GLU:HG3	2:B:334:LEU:HD22	0.67	1.65	13	4
2:B:340:ILE:HD12	2:B:340:ILE:O	0.67	1.90	26	14
1:A:47:GLN:CG	2:B:320:VAL:HG23	0.67	2.20	31	3
1:A:15:LEU:C	1:A:15:LEU:HD13	0.67	2.10	29	3
1:A:18:LEU:HD22	2:B:323:LEU:CD2	0.67	2.19	12	6
2:B:323:LEU:HD23	2:B:326:LYS:NZ	0.67	2.05	7	3
1:A:34:LEU:HD21	1:A:44:PHE:CE2	0.67	2.24	13	1
2:B:352:LEU:HD23	2:B:354:LYS:HB2	0.67	1.64	14	2
1:A:15:LEU:HD22	1:A:15:LEU:C	0.67	2.10	32	4
2:B:352:LEU:HD22	2:B:352:LEU:H	0.67	1.49	10	8
1:A:14:LEU:HD22	1:A:40:LEU:CD1	0.67	2.20	14	3
2:B:312:GLU:HA	2:B:315:LEU:HD23	0.67	1.65	16	5
2:B:344:VAL:CG2	2:B:352:LEU:HD21	0.66	2.20	4	2
2:B:326:LYS:NZ	2:B:343:LEU:HD11	0.66	2.05	5	6
2:B:311:ASP:O	2:B:315:LEU:N	0.66	2.28	36	18
2:B:351:VAL:HG23	2:B:352:LEU:N	0.66	2.04	14	5
2:B:351:VAL:O	2:B:352:LEU:C	0.66	2.33	30	5
1:A:14:LEU:CD2	1:A:18:LEU:HD21	0.66	2.21	33	2
1:A:34:LEU:HD12	1:A:48:ARG:NH2	0.66	2.05	23	1
1:A:47:GLN:HB2	2:B:320:VAL:HG23	0.66	1.68	25	1
1:A:44:PHE:CZ	2:B:343:LEU:HD23	0.65	2.26	17	2
1:A:14:LEU:HD23	1:A:40:LEU:CD1	0.65	2.21	24	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:361:LEU:HD12	2:B:361:LEU:N	0.65	2.06	10	3
2:B:319:LEU:C	2:B:319:LEU:HD12	0.65	2.11	24	2
1:A:14:LEU:CD2	1:A:40:LEU:HD11	0.65	2.22	24	2
2:B:340:ILE:HD13	2:B:343:LEU:HD22	0.65	1.67	28	1
2:B:351:VAL:O	2:B:351:VAL:HG23	0.65	1.91	19	1
2:B:356:VAL:CG2	2:B:356:VAL:O	0.65	2.45	22	3
1:A:11:LEU:CD2	2:B:315:LEU:HD23	0.65	2.22	14	1
2:B:332:ALA:HB3	2:B:342:LYS:NZ	0.65	2.07	13	5
2:B:352:LEU:O	2:B:353:SER:CB	0.65	2.45	23	12
1:A:14:LEU:HD12	2:B:319:LEU:CD1	0.64	2.22	37	1
1:A:11:LEU:HD22	1:A:12:GLN:N	0.64	2.07	10	14
1:A:40:LEU:HD23	1:A:41:MET:N	0.64	2.07	30	2
1:A:37:ASN:HB2	1:A:40:LEU:HD22	0.64	1.66	28	4
1:A:14:LEU:HD11	1:A:44:PHE:HB2	0.64	1.68	15	5
2:B:351:VAL:HG23	2:B:353:SER:H	0.64	1.52	16	5
1:A:47:GLN:HE21	2:B:320:VAL:HG22	0.64	1.53	28	1
2:B:332:ALA:HB1	2:B:342:LYS:HZ1	0.64	1.52	14	1
2:B:326:LYS:HB2	2:B:340:ILE:HG22	0.64	1.68	28	1
1:A:51:LYS:HG3	2:B:340:ILE:HD11	0.64	1.70	31	4
1:A:10:ALA:CB	1:A:40:LEU:HD11	0.64	2.22	31	3
2:B:312:GLU:O	2:B:316:LEU:HD23	0.64	1.93	10	15
1:A:52:TYR:CB	2:B:352:LEU:HD12	0.64	2.23	15	4
2:B:326:LYS:HZ1	2:B:343:LEU:HD11	0.64	1.51	5	1
2:B:340:ILE:HG22	2:B:343:LEU:HD21	0.63	1.69	27	1
2:B:353:SER:O	2:B:356:VAL:HG13	0.63	1.91	15	3
2:B:352:LEU:H	2:B:352:LEU:HD22	0.63	1.51	35	6
1:A:48:ARG:NH1	2:B:340:ILE:HD13	0.63	2.08	33	3
2:B:315:LEU:O	2:B:318:GLN:HG3	0.63	1.92	30	3
1:A:14:LEU:HD22	2:B:319:LEU:CG	0.63	2.23	3	2
1:A:52:TYR:CE1	2:B:344:VAL:CG1	0.63	2.78	30	11
1:A:48:ARG:HH22	2:B:340:ILE:HG21	0.63	1.52	21	2
2:B:340:ILE:O	2:B:344:VAL:HG12	0.63	1.92	14	2
2:B:352:LEU:N	2:B:352:LEU:CD1	0.63	2.62	30	6
1:A:18:LEU:HD11	2:B:319:LEU:HD23	0.63	1.69	23	1
2:B:343:LEU:CD2	2:B:343:LEU:C	0.63	2.65	28	1
1:A:14:LEU:HD22	2:B:319:LEU:HD22	0.63	1.68	4	4
1:A:14:LEU:HD22	2:B:319:LEU:HD13	0.63	1.70	33	5
2:B:344:VAL:CG1	2:B:352:LEU:HD21	0.63	2.24	5	1
1:A:51:LYS:HE2	2:B:338:LEU:HD13	0.63	1.70	8	1
1:A:20:SER:CB	1:A:21:PRO:HD2	0.63	2.24	36	37
2:B:332:ALA:HB1	2:B:335:ASP:HB2	0.63	1.71	7	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:340:ILE:CB	2:B:343:LEU:HD13	0.63	2.24	22	1
1:A:15:LEU:HD13	2:B:318:GLN:CD	0.63	2.14	31	1
2:B:311:ASP:C	2:B:315:LEU:HD23	0.63	2.14	37	14
1:A:8:PRO:O	1:A:9:SER:C	0.63	2.37	28	12
1:A:14:LEU:HD12	2:B:319:LEU:CD2	0.63	2.23	5	3
1:A:14:LEU:HD13	2:B:319:LEU:HD22	0.63	1.69	33	3
1:A:10:ALA:HB2	1:A:37:ASN:CG	0.62	2.14	18	7
1:A:6:ILE:HD11	1:A:37:ASN:CB	0.62	2.23	11	3
2:B:352:LEU:HD22	2:B:352:LEU:N	0.62	2.08	13	4
2:B:323:LEU:HD23	2:B:326:LYS:CE	0.62	2.25	2	16
2:B:337:ALA:C	2:B:338:LEU:HD23	0.62	2.15	15	1
1:A:48:ARG:O	1:A:52:TYR:CZ	0.62	2.52	26	32
1:A:52:TYR:CG	2:B:352:LEU:CD2	0.62	2.83	29	5
1:A:17:THR:HG23	1:A:29:GLN:HB3	0.62	1.70	20	19
2:B:355:LEU:O	2:B:356:VAL:HG13	0.62	1.94	9	2
1:A:52:TYR:CD2	2:B:352:LEU:HD12	0.62	2.29	35	1
2:B:361:LEU:CD2	2:B:361:LEU:N	0.61	2.62	20	17
1:A:25:GLN:O	1:A:28:GLN:N	0.61	2.33	31	37
1:A:52:TYR:CG	2:B:352:LEU:CD1	0.61	2.79	14	9
1:A:48:ARG:HD3	2:B:343:LEU:HD13	0.61	1.72	27	1
2:B:340:ILE:O	2:B:344:VAL:HG23	0.61	1.96	27	2
2:B:356:VAL:O	2:B:356:VAL:HG22	0.61	1.95	22	2
2:B:329:THR:HG23	2:B:336:ARG:CG	0.61	2.26	13	7
1:A:8:PRO:O	1:A:11:LEU:HD13	0.61	1.95	17	4
2:B:340:ILE:CB	2:B:343:LEU:HD23	0.61	2.26	37	6
1:A:11:LEU:HD22	2:B:315:LEU:HD23	0.61	1.70	14	1
1:A:51:LYS:CG	2:B:340:ILE:HD11	0.61	2.25	28	14
1:A:11:LEU:HD22	1:A:11:LEU:N	0.61	2.10	26	7
1:A:48:ARG:HH11	2:B:323:LEU:HD13	0.61	1.56	29	3
1:A:11:LEU:HD13	2:B:315:LEU:CB	0.61	2.25	34	2
1:A:42:ALA:O	1:A:46:LYS:CG	0.61	2.48	19	23
2:B:338:LEU:N	2:B:338:LEU:HD12	0.61	2.11	5	1
1:A:51:LYS:CG	2:B:338:LEU:HD23	0.61	2.25	30	3
2:B:361:LEU:N	2:B:361:LEU:CD2	0.61	2.64	31	10
1:A:6:ILE:HG21	1:A:40:LEU:HD22	0.60	1.71	21	3
1:A:8:PRO:O	1:A:11:LEU:CD1	0.60	2.50	11	10
1:A:48:ARG:HH21	2:B:340:ILE:CB	0.60	2.10	21	3
1:A:14:LEU:HD12	2:B:319:LEU:CG	0.60	2.26	5	1
2:B:342:LYS:HD3	2:B:342:LYS:N	0.60	2.12	24	1
1:A:18:LEU:CD1	2:B:343:LEU:HD21	0.60	2.26	25	1
1:A:48:ARG:NH2	2:B:326:LYS:HZ1	0.60	1.94	37	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:ILE:HD12	1:A:40:LEU:HD23	0.60	1.74	8	11
1:A:11:LEU:N	1:A:11:LEU:HD22	0.60	2.12	12	4
1:A:51:LYS:HZ3	2:B:338:LEU:HD13	0.60	1.54	15	1
1:A:18:LEU:HD21	1:A:44:PHE:HE2	0.60	1.56	28	3
1:A:15:LEU:HD23	2:B:322:PHE:CD1	0.60	2.30	20	6
1:A:14:LEU:HD22	1:A:33:ILE:CD1	0.60	2.25	37	1
2:B:335:ASP:HB2	2:B:342:LYS:HZ1	0.60	1.57	14	1
2:B:342:LYS:N	2:B:342:LYS:HD2	0.60	2.12	23	1
1:A:46:LYS:HA	1:A:49:THR:HG22	0.60	1.74	2	9
2:B:344:VAL:HG13	2:B:357:PRO:HB3	0.59	1.74	12	10
1:A:14:LEU:HD13	1:A:40:LEU:HD11	0.59	1.73	10	2
1:A:8:PRO:C	1:A:11:LEU:HD21	0.59	2.17	36	12
2:B:359:GLY:O	2:B:360:SER:CB	0.59	2.50	13	16
1:A:11:LEU:HD22	1:A:12:GLN:H	0.59	1.57	31	15
1:A:48:ARG:HH21	2:B:323:LEU:CD1	0.59	1.99	27	1
1:A:49:THR:HA	1:A:52:TYR:CD2	0.59	2.32	33	37
1:A:6:ILE:CD1	1:A:40:LEU:HD23	0.59	2.27	26	5
1:A:48:ARG:HH21	2:B:340:ILE:CG1	0.59	2.08	36	3
1:A:14:LEU:C	1:A:14:LEU:HD23	0.59	2.17	20	2
2:B:340:ILE:HD12	2:B:344:VAL:CG1	0.59	2.28	35	1
1:A:23:SER:CB	1:A:24:PRO:HD3	0.59	2.27	31	37
2:B:322:PHE:CE2	2:B:326:LYS:NZ	0.59	2.71	35	2
1:A:14:LEU:CD2	1:A:18:LEU:CD2	0.59	2.81	33	2
2:B:344:VAL:HG13	2:B:357:PRO:HB2	0.59	1.75	4	8
2:B:340:ILE:CD1	2:B:344:VAL:CG2	0.59	2.81	18	6
1:A:37:ASN:CG	1:A:40:LEU:HD12	0.59	2.18	13	3
1:A:41:MET:O	1:A:45:ILE:N	0.59	2.32	14	27
1:A:14:LEU:HG	2:B:319:LEU:HD13	0.59	1.73	17	1
1:A:22:SER:CB	1:A:26:GLN:NE2	0.59	2.66	29	1
1:A:6:ILE:HD11	1:A:38:PRO:HD2	0.59	1.75	7	1
2:B:352:LEU:H	2:B:352:LEU:HD13	0.59	1.56	17	6
1:A:41:MET:O	1:A:45:ILE:HG22	0.59	1.97	25	7
2:B:316:LEU:O	2:B:320:VAL:N	0.59	2.33	33	6
1:A:10:ALA:HB1	1:A:40:LEU:CD1	0.58	2.28	31	3
2:B:340:ILE:CB	2:B:343:LEU:HD21	0.58	2.27	27	1
2:B:318:GLN:HG3	2:B:319:LEU:N	0.58	2.12	29	1
1:A:10:ALA:HB1	1:A:37:ASN:ND2	0.58	2.13	30	2
1:A:18:LEU:HD13	2:B:322:PHE:HE1	0.58	1.58	23	4
1:A:30:VAL:CG2	1:A:31:LEU:N	0.58	2.67	35	37
1:A:21:PRO:O	1:A:22:SER:CB	0.58	2.52	22	37
1:A:51:LYS:CE	2:B:338:LEU:HD22	0.58	2.28	35	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:LYS:HB2	2:B:340:ILE:HD11	0.58	1.76	5	3
2:B:322:PHE:C	2:B:322:PHE:CD1	0.58	2.76	6	8
1:A:8:PRO:O	1:A:11:LEU:HD11	0.58	1.98	13	4
1:A:11:LEU:CG	2:B:315:LEU:HD12	0.58	2.29	10	2
2:B:352:LEU:O	2:B:352:LEU:HD23	0.58	1.99	15	1
1:A:14:LEU:HD12	2:B:319:LEU:HD22	0.58	1.74	24	1
2:B:322:PHE:CD1	2:B:322:PHE:C	0.58	2.77	29	9
1:A:52:TYR:O	1:A:56:GLN:N	0.58	2.34	25	11
2:B:351:VAL:HG22	2:B:352:LEU:HD22	0.58	1.75	28	1
1:A:27:GLN:CG	1:A:28:GLN:N	0.58	2.66	2	37
2:B:311:ASP:O	2:B:314:ALA:N	0.58	2.37	4	29
1:A:14:LEU:HD23	1:A:18:LEU:CD2	0.58	2.29	3	1
1:A:15:LEU:HD13	2:B:318:GLN:OE1	0.58	1.98	31	1
2:B:352:LEU:CD2	2:B:352:LEU:C	0.58	2.73	37	1
1:A:18:LEU:CD1	2:B:319:LEU:HD21	0.57	2.28	5	2
2:B:331:LEU:HD12	2:B:332:ALA:N	0.57	2.14	29	1
2:B:351:VAL:HG21	2:B:361:LEU:CD2	0.57	2.29	10	2
1:A:33:ILE:CA	1:A:37:ASN:OD1	0.57	2.51	30	1
1:A:55:ASN:OD1	1:A:55:ASN:C	0.57	2.43	8	1
1:A:11:LEU:HD13	2:B:315:LEU:CG	0.57	2.29	22	2
1:A:15:LEU:HD23	2:B:322:PHE:CG	0.57	2.34	37	2
1:A:18:LEU:CG	2:B:323:LEU:HD21	0.57	2.29	28	6
2:B:342:LYS:HG2	2:B:343:LEU:HD22	0.57	1.74	10	6
2:B:338:LEU:HD12	2:B:341:ASP:HB2	0.57	1.77	31	3
1:A:48:ARG:CD	2:B:343:LEU:HD22	0.57	2.27	21	1
1:A:14:LEU:HA	1:A:33:ILE:HD12	0.57	1.75	16	15
2:B:329:THR:HG23	2:B:336:ARG:HG2	0.57	1.76	10	8
2:B:323:LEU:HD23	2:B:326:LYS:HZ1	0.57	1.56	7	2
2:B:340:ILE:HB	2:B:343:LEU:HD21	0.57	1.76	27	3
2:B:312:GLU:O	2:B:316:LEU:CD2	0.57	2.53	15	14
1:A:36:SER:O	1:A:37:ASN:ND2	0.57	2.38	20	12
1:A:11:LEU:HD22	2:B:315:LEU:HG	0.57	1.76	8	2
1:A:51:LYS:HZ3	2:B:352:LEU:HD11	0.57	1.59	27	1
1:A:34:LEU:HD22	1:A:41:MET:HA	0.57	1.75	35	10
2:B:338:LEU:HD22	2:B:338:LEU:N	0.57	2.14	24	2
1:A:44:PHE:CE1	1:A:48:ARG:HD3	0.57	2.34	36	6
1:A:51:LYS:HE3	2:B:338:LEU:HD23	0.57	1.77	33	1
1:A:10:ALA:O	1:A:13:ASP:N	0.56	2.38	31	25
2:B:316:LEU:O	2:B:320:VAL:CG1	0.56	2.51	9	4
2:B:332:ALA:HB2	2:B:342:LYS:NZ	0.56	2.15	22	1
1:A:22:SER:HA	1:A:26:GLN:CB	0.56	2.30	36	37

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:ILE:O	1:A:36:SER:N	0.56	2.39	7	16
1:A:34:LEU:HD13	1:A:41:MET:HB2	0.56	1.76	3	1
2:B:319:LEU:C	2:B:319:LEU:CD1	0.56	2.72	11	6
1:A:37:ASN:O	1:A:41:MET:CB	0.56	2.54	7	5
1:A:14:LEU:HD11	1:A:44:PHE:HD2	0.56	1.59	5	4
2:B:311:ASP:O	2:B:314:ALA:HB3	0.56	2.00	31	6
1:A:14:LEU:HD12	1:A:40:LEU:HB3	0.56	1.78	20	1
2:B:317:GLU:O	2:B:321:SER:CB	0.56	2.54	9	13
1:A:18:LEU:CD1	2:B:319:LEU:CD2	0.56	2.84	5	2
1:A:48:ARG:HH21	2:B:340:ILE:HB	0.56	1.61	10	2
1:A:8:PRO:C	1:A:11:LEU:HD23	0.56	2.20	20	1
2:B:323:LEU:CD2	2:B:326:LYS:NZ	0.56	2.68	3	5
1:A:52:TYR:CD1	2:B:352:LEU:HD21	0.56	2.35	7	2
1:A:8:PRO:O	1:A:10:ALA:N	0.56	2.39	24	6
2:B:332:ALA:HB1	2:B:335:ASP:CG	0.56	2.21	11	1
1:A:11:LEU:HD12	2:B:318:GLN:OE1	0.56	2.00	32	1
1:A:34:LEU:HD11	1:A:44:PHE:CD2	0.55	2.36	13	1
1:A:32:ASN:O	1:A:36:SER:N	0.55	2.39	15	5
2:B:341:ASP:HA	2:B:344:VAL:CG1	0.55	2.31	23	10
1:A:18:LEU:HD11	2:B:323:LEU:HD21	0.55	1.78	11	2
1:A:14:LEU:HD23	1:A:44:PHE:HD2	0.55	1.60	29	1
1:A:6:ILE:HD12	1:A:40:LEU:CD1	0.55	2.31	19	1
1:A:11:LEU:N	1:A:40:LEU:CD2	0.55	2.70	19	1
1:A:51:LYS:CB	2:B:340:ILE:HD11	0.55	2.31	6	8
1:A:52:TYR:CD2	2:B:352:LEU:HD21	0.55	2.35	29	1
2:B:344:VAL:HG23	2:B:352:LEU:HD21	0.55	1.78	4	1
2:B:338:LEU:HD21	2:B:355:LEU:HD13	0.55	1.78	1	1
2:B:317:GLU:HA	2:B:320:VAL:HG12	0.55	1.79	28	5
1:A:14:LEU:HD23	2:B:319:LEU:HD21	0.55	1.77	32	2
2:B:352:LEU:HD22	2:B:353:SER:N	0.55	2.16	9	1
1:A:11:LEU:HG	2:B:315:LEU:HD23	0.55	1.78	15	1
1:A:25:GLN:O	1:A:26:GLN:C	0.55	2.45	31	37
1:A:12:GLN:O	1:A:16:ARG:CB	0.55	2.55	32	11
1:A:44:PHE:CZ	2:B:343:LEU:CD2	0.55	2.90	17	1
2:B:319:LEU:CD2	2:B:319:LEU:C	0.55	2.75	25	3
2:B:352:LEU:N	2:B:352:LEU:CD2	0.55	2.67	10	1
1:A:14:LEU:HD13	2:B:319:LEU:HD21	0.55	1.78	15	3
2:B:342:LYS:N	2:B:342:LYS:CD	0.55	2.68	23	1
1:A:19:LYS:NZ	2:B:322:PHE:CE1	0.55	2.72	36	1
1:A:52:TYR:CB	2:B:352:LEU:HD11	0.55	2.32	37	1
1:A:10:ALA:HB3	1:A:40:LEU:HD11	0.54	1.78	31	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:31:LEU:O	1:A:35:LYS:HB3	0.54	2.02	17	9
2:B:360:SER:C	2:B:361:LEU:HD22	0.54	2.23	35	10
1:A:48:ARG:NH2	2:B:340:ILE:CG2	0.54	2.69	21	1
1:A:6:ILE:HD12	1:A:40:LEU:CD2	0.54	2.32	32	2
1:A:10:ALA:CB	1:A:37:ASN:CG	0.54	2.76	10	13
1:A:20:SER:HB2	1:A:21:PRO:CD	0.54	2.31	36	16
2:B:332:ALA:CB	2:B:342:LYS:NZ	0.54	2.70	14	2
1:A:22:SER:O	1:A:23:SER:CB	0.54	2.55	30	33
1:A:48:ARG:NH2	2:B:340:ILE:CD1	0.54	2.69	20	1
2:B:315:LEU:O	2:B:318:GLN:CG	0.54	2.56	29	2
1:A:20:SER:OG	1:A:21:PRO:HD2	0.54	2.01	23	30
1:A:14:LEU:HD22	1:A:33:ILE:HD12	0.54	1.79	37	1
1:A:44:PHE:CZ	1:A:48:ARG:NH1	0.54	2.76	15	1
1:A:6:ILE:HG13	1:A:40:LEU:HD22	0.54	1.77	27	2
1:A:49:THR:O	1:A:53:VAL:N	0.54	2.39	31	32
2:B:313:LYS:O	2:B:317:GLU:CG	0.54	2.56	30	25
1:A:40:LEU:C	1:A:40:LEU:CD2	0.54	2.76	30	1
2:B:312:GLU:O	2:B:315:LEU:N	0.54	2.40	31	7
2:B:317:GLU:HA	2:B:320:VAL:HG22	0.54	1.79	32	5
1:A:47:GLN:HE21	2:B:320:VAL:HG13	0.54	1.62	26	1
2:B:352:LEU:C	2:B:352:LEU:HD22	0.54	2.23	37	1
2:B:332:ALA:HB3	2:B:342:LYS:HZ1	0.54	1.62	6	1
1:A:14:LEU:HD21	2:B:319:LEU:HG	0.54	1.79	16	2
1:A:15:LEU:CD2	2:B:322:PHE:CD2	0.54	2.91	29	1
2:B:334:LEU:CD2	2:B:334:LEU:C	0.54	2.74	12	2
1:A:11:LEU:HD13	2:B:315:LEU:HA	0.54	1.79	34	3
2:B:352:LEU:O	2:B:352:LEU:CD2	0.54	2.56	15	1
1:A:6:ILE:CD1	1:A:37:ASN:OD1	0.53	2.56	31	9
2:B:352:LEU:O	2:B:354:LYS:N	0.53	2.39	8	5
2:B:313:LYS:HE3	2:B:314:ALA:HB2	0.53	1.78	18	6
2:B:316:LEU:O	2:B:320:VAL:CB	0.53	2.56	35	3
1:A:37:ASN:OD1	1:A:40:LEU:CB	0.53	2.56	7	5
1:A:10:ALA:CB	1:A:40:LEU:CD1	0.53	2.86	31	2
1:A:51:LYS:HD2	2:B:338:LEU:HD22	0.53	1.80	2	2
2:B:340:ILE:O	2:B:343:LEU:N	0.53	2.41	25	15
1:A:8:PRO:CA	1:A:11:LEU:HD21	0.53	2.34	23	9
1:A:15:LEU:HD23	2:B:322:PHE:CD2	0.53	2.37	32	3
1:A:11:LEU:N	1:A:40:LEU:HD21	0.53	2.18	19	1
2:B:344:VAL:O	2:B:345:GLN:C	0.53	2.47	10	32
1:A:14:LEU:HD21	1:A:44:PHE:HD2	0.53	1.63	3	5
2:B:332:ALA:CB	2:B:342:LYS:HZ1	0.53	2.16	14	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:342:LYS:CD	2:B:343:LEU:HD22	0.53	2.34	7	1
1:A:51:LYS:HE2	2:B:338:LEU:HD22	0.53	1.81	8	1
1:A:44:PHE:CE1	2:B:343:LEU:HD23	0.53	2.38	17	1
2:B:351:VAL:HG22	2:B:352:LEU:N	0.53	2.19	28	2
1:A:30:VAL:O	1:A:34:LEU:HG	0.53	2.03	22	12
1:A:52:TYR:O	1:A:56:GLN:CG	0.53	2.56	25	2
1:A:17:THR:CG2	1:A:29:GLN:CB	0.53	2.87	23	23
2:B:342:LYS:NZ	2:B:342:LYS:N	0.53	2.52	3	1
2:B:311:ASP:C	2:B:315:LEU:HD13	0.53	2.24	15	6
2:B:333:GLU:CG	2:B:334:LEU:HD22	0.53	2.34	10	1
1:A:15:LEU:HD23	2:B:322:PHE:CZ	0.53	2.38	32	1
1:A:14:LEU:O	1:A:18:LEU:CD2	0.53	2.57	22	14
1:A:30:VAL:O	1:A:34:LEU:CD2	0.53	2.54	18	9
2:B:344:VAL:O	2:B:351:VAL:CG1	0.53	2.57	14	10
1:A:48:ARG:CZ	2:B:343:LEU:HD13	0.53	2.34	21	1
2:B:333:GLU:HB2	2:B:336:ARG:HH21	0.53	1.64	23	1
2:B:323:LEU:CD2	2:B:326:LYS:HZ3	0.53	2.17	37	2
1:A:51:LYS:HZ2	2:B:338:LEU:CD1	0.53	2.14	15	1
1:A:44:PHE:CE1	1:A:48:ARG:HG2	0.53	2.39	37	4
1:A:14:LEU:CD2	1:A:40:LEU:CD2	0.53	2.81	30	1
1:A:11:LEU:HD13	2:B:315:LEU:CA	0.52	2.35	34	1
1:A:14:LEU:C	1:A:14:LEU:CD1	0.52	2.77	34	1
1:A:6:ILE:HG23	1:A:7:SER:N	0.52	2.19	8	5
2:B:329:THR:HA	2:B:342:LYS:HZ1	0.52	1.63	28	1
2:B:340:ILE:O	2:B:340:ILE:CD1	0.52	2.57	32	12
2:B:352:LEU:N	2:B:352:LEU:HD23	0.52	2.19	23	3
1:A:40:LEU:C	1:A:40:LEU:CD1	0.52	2.74	4	2
2:B:319:LEU:HG	2:B:320:VAL:N	0.52	2.19	12	4
1:A:14:LEU:HD13	1:A:40:LEU:HD12	0.52	1.80	22	1
2:B:340:ILE:CD1	2:B:340:ILE:O	0.52	2.57	22	6
1:A:8:PRO:O	1:A:11:LEU:CD2	0.52	2.58	37	16
1:A:6:ILE:HD11	1:A:37:ASN:HA	0.52	1.79	20	1
1:A:18:LEU:HD11	2:B:319:LEU:CD2	0.52	2.35	23	1
2:B:326:LYS:CB	2:B:340:ILE:HG22	0.52	2.34	28	1
1:A:14:LEU:C	1:A:14:LEU:HD13	0.52	2.24	36	2
2:B:344:VAL:HG22	2:B:357:PRO:CG	0.52	2.35	23	3
1:A:18:LEU:HD11	1:A:44:PHE:HE1	0.52	1.64	13	1
2:B:316:LEU:C	2:B:320:VAL:HG13	0.52	2.25	37	4
1:A:30:VAL:O	1:A:34:LEU:HD13	0.52	2.05	13	9
1:A:48:ARG:O	1:A:52:TYR:CE1	0.52	2.63	35	7
2:B:329:THR:CA	2:B:342:LYS:HZ1	0.52	2.18	28	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:344:VAL:O	2:B:346:GLY:N	0.52	2.43	21	21
1:A:29:GLN:N	1:A:29:GLN:NE2	0.52	2.58	6	4
1:A:15:LEU:HD21	2:B:322:PHE:CD2	0.52	2.40	7	2
1:A:41:MET:O	1:A:45:ILE:CG2	0.52	2.58	25	3
2:B:329:THR:N	2:B:342:LYS:NZ	0.52	2.58	28	1
1:A:9:SER:O	1:A:12:GLN:N	0.52	2.43	37	9
1:A:11:LEU:HG	1:A:12:GLN:N	0.52	2.20	30	8
1:A:48:ARG:NH2	2:B:340:ILE:CG1	0.52	2.73	36	2
2:B:319:LEU:CD1	2:B:320:VAL:N	0.51	2.66	1	2
1:A:27:GLN:O	1:A:31:LEU:HD22	0.51	2.05	36	11
1:A:37:ASN:HB3	1:A:40:LEU:HB2	0.51	1.81	7	5
1:A:10:ALA:HB1	1:A:40:LEU:HD13	0.51	1.81	28	2
1:A:14:LEU:CD1	2:B:319:LEU:HD13	0.51	2.33	36	1
2:B:345:GLN:CG	2:B:358:ARG:CG	0.51	2.88	15	6
1:A:52:TYR:CD2	2:B:352:LEU:CD1	0.51	2.93	14	3
1:A:29:GLN:NE2	1:A:29:GLN:N	0.51	2.58	11	2
1:A:38:PRO:O	1:A:41:MET:CG	0.51	2.58	14	3
1:A:51:LYS:CE	1:A:51:LYS:O	0.51	2.58	25	2
1:A:48:ARG:NH2	2:B:326:LYS:NZ	0.51	2.59	37	1
2:B:352:LEU:O	2:B:353:SER:C	0.51	2.47	14	9
1:A:55:ASN:OD1	1:A:56:GLN:N	0.51	2.44	17	3
1:A:10:ALA:CB	1:A:37:ASN:OD1	0.51	2.59	1	8
2:B:355:LEU:O	2:B:357:PRO:N	0.51	2.43	1	16
1:A:6:ILE:CG1	1:A:39:GLN:HB2	0.51	2.36	6	6
1:A:47:GLN:HB3	2:B:323:LEU:HD13	0.51	1.81	6	2
2:B:342:LYS:N	2:B:342:LYS:HD3	0.51	2.21	33	3
2:B:343:LEU:CD1	2:B:343:LEU:N	0.51	2.74	34	1
1:A:27:GLN:HG3	1:A:28:GLN:N	0.51	2.21	37	5
1:A:18:LEU:HD12	2:B:323:LEU:HD21	0.51	1.82	8	2
1:A:51:LYS:O	1:A:51:LYS:CE	0.51	2.59	14	3
1:A:48:ARG:CZ	2:B:343:LEU:CB	0.51	2.89	20	1
2:B:319:LEU:C	2:B:319:LEU:CD2	0.51	2.75	35	3
1:A:51:LYS:HD2	2:B:338:LEU:HD12	0.51	1.82	10	1
2:B:356:VAL:HG23	2:B:359:GLY:N	0.51	2.21	22	3
1:A:14:LEU:CD1	1:A:18:LEU:CD1	0.51	2.89	36	1
1:A:11:LEU:CD1	2:B:315:LEU:HD23	0.51	2.36	26	2
1:A:26:GLN:O	1:A:29:GLN:N	0.51	2.44	21	36
1:A:6:ILE:HG13	1:A:39:GLN:CB	0.51	2.35	22	12
1:A:44:PHE:O	1:A:47:GLN:N	0.51	2.44	28	21
1:A:11:LEU:HD12	2:B:315:LEU:HD23	0.51	1.82	17	1
1:A:51:LYS:HE3	2:B:338:LEU:HD22	0.51	1.82	35	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:LEU:CD1	1:A:18:LEU:HD11	0.51	2.36	36	1
1:A:34:LEU:HD22	1:A:41:MET:CA	0.51	2.36	1	5
1:A:20:SER:OG	1:A:21:PRO:CD	0.51	2.59	7	18
2:B:356:VAL:CG2	2:B:359:GLY:O	0.51	2.57	19	3
2:B:341:ASP:O	2:B:357:PRO:CB	0.51	2.59	13	4
2:B:355:LEU:O	2:B:356:VAL:O	0.50	2.29	3	4
2:B:356:VAL:HG12	2:B:361:LEU:HD23	0.50	1.83	32	7
1:A:15:LEU:C	1:A:15:LEU:CD2	0.50	2.80	18	2
2:B:315:LEU:N	2:B:315:LEU:CD1	0.50	2.74	26	2
1:A:48:ARG:HH12	2:B:323:LEU:HD13	0.50	1.57	36	1
1:A:28:GLN:O	1:A:32:ASN:ND2	0.50	2.44	24	34
2:B:313:LYS:O	2:B:317:GLU:HG2	0.50	2.06	30	5
1:A:44:PHE:C	1:A:44:PHE:CD1	0.50	2.85	37	8
2:B:360:SER:O	2:B:360:SER:OG	0.50	2.30	5	1
2:B:339:GLY:O	2:B:340:ILE:CG2	0.50	2.60	29	5
2:B:351:VAL:CG2	2:B:352:LEU:N	0.50	2.74	14	6
1:A:6:ILE:CG2	1:A:40:LEU:HD21	0.50	2.36	22	1
2:B:351:VAL:CG2	2:B:352:LEU:HD22	0.50	2.36	28	1
1:A:11:LEU:CD1	2:B:318:GLN:OE1	0.50	2.59	32	1
1:A:40:LEU:CD1	1:A:40:LEU:C	0.50	2.80	3	2
2:B:311:ASP:O	2:B:315:LEU:HD13	0.50	2.07	4	6
2:B:311:ASP:O	2:B:312:GLU:C	0.50	2.50	37	15
1:A:46:LYS:O	1:A:50:ALA:CB	0.50	2.58	30	4
2:B:326:LYS:NZ	2:B:343:LEU:HD21	0.50	2.22	5	2
2:B:335:ASP:CG	2:B:342:LYS:NZ	0.50	2.65	29	2
1:A:27:GLN:CD	1:A:27:GLN:C	0.50	2.70	37	1
2:B:345:GLN:HG3	2:B:358:ARG:CG	0.50	2.36	27	8
2:B:311:ASP:O	2:B:315:LEU:HD23	0.50	2.07	18	8
2:B:313:LYS:HA	2:B:316:LEU:HD12	0.50	1.83	37	1
2:B:335:ASP:O	2:B:337:ALA:N	0.50	2.45	23	26
2:B:340:ILE:HD12	2:B:344:VAL:CG2	0.50	2.36	18	5
1:A:10:ALA:HB2	1:A:37:ASN:ND2	0.50	2.22	18	4
1:A:33:ILE:O	1:A:35:LYS:N	0.50	2.45	30	10
2:B:345:GLN:CG	2:B:346:GLY:N	0.50	2.74	20	3
1:A:6:ILE:HD13	1:A:7:SER:H	0.50	1.65	20	3
2:B:340:ILE:HB	2:B:343:LEU:HD11	0.50	1.83	27	1
1:A:17:THR:CG2	1:A:26:GLN:OE1	0.50	2.60	32	1
1:A:51:LYS:O	1:A:55:ASN:ND2	0.50	2.44	13	23
1:A:51:LYS:HB3	1:A:52:TYR:CE1	0.50	2.42	5	30
1:A:41:MET:CG	1:A:42:ALA:N	0.50	2.74	6	1
2:B:351:VAL:HG23	2:B:353:SER:N	0.50	2.19	13	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:338:LEU:HD13	2:B:341:ASP:HB2	0.50	1.82	18	1
2:B:315:LEU:CD1	2:B:315:LEU:N	0.50	2.75	20	2
1:A:20:SER:HG	1:A:26:GLN:HB2	0.50	1.67	32	1
1:A:56:GLN:O	1:A:56:GLN:CG	0.49	2.59	19	4
2:B:360:SER:C	2:B:361:LEU:HD12	0.49	2.27	26	1
2:B:340:ILE:HD13	2:B:343:LEU:CD2	0.49	2.35	28	1
2:B:340:ILE:CB	2:B:343:LEU:HD22	0.49	2.35	34	1
1:A:11:LEU:HD22	2:B:315:LEU:HB3	0.49	1.84	7	1
2:B:351:VAL:C	2:B:352:LEU:HD22	0.49	2.28	30	1
1:A:42:ALA:O	1:A:46:LYS:HG2	0.49	2.07	17	19
1:A:28:GLN:O	1:A:32:ASN:CB	0.49	2.60	35	23
2:B:340:ILE:CD1	2:B:340:ILE:C	0.49	2.81	23	7
1:A:48:ARG:NH2	2:B:340:ILE:CB	0.49	2.75	21	4
1:A:44:PHE:O	1:A:48:ARG:N	0.49	2.46	31	7
1:A:10:ALA:CB	1:A:37:ASN:ND2	0.49	2.74	30	3
2:B:338:LEU:HD13	2:B:341:ASP:CG	0.49	2.27	3	1
1:A:52:TYR:O	1:A:55:ASN:N	0.49	2.45	29	16
1:A:22:SER:O	1:A:22:SER:OG	0.49	2.30	29	4
1:A:11:LEU:CD1	1:A:12:GLN:N	0.49	2.73	28	1
1:A:45:ILE:CD1	1:A:45:ILE:O	0.49	2.60	2	5
2:B:323:LEU:HD23	2:B:326:LYS:HE2	0.49	1.83	4	3
2:B:361:LEU:N	2:B:361:LEU:CD1	0.49	2.76	10	1
2:B:357:PRO:HD2	2:B:361:LEU:HD22	0.49	1.85	25	2
2:B:358:ARG:HB2	2:B:361:LEU:HD11	0.49	1.83	10	4
2:B:360:SER:OG	2:B:360:SER:O	0.49	2.29	24	1
1:A:23:SER:CB	1:A:24:PRO:CD	0.49	2.90	31	37
2:B:326:LYS:NZ	2:B:343:LEU:CD1	0.49	2.76	33	1
2:B:314:ALA:O	2:B:318:GLN:NE2	0.49	2.46	34	1
2:B:351:VAL:O	2:B:351:VAL:CG2	0.49	2.61	19	1
2:B:341:ASP:OD1	2:B:342:LYS:CE	0.49	2.61	23	1
1:A:47:GLN:O	1:A:47:GLN:NE2	0.49	2.46	31	1
1:A:22:SER:OG	1:A:22:SER:O	0.48	2.30	4	3
2:B:353:SER:O	2:B:355:LEU:N	0.48	2.46	22	2
2:B:344:VAL:CG2	2:B:351:VAL:CG2	0.48	2.90	28	1
1:A:14:LEU:HD23	1:A:44:PHE:CD2	0.48	2.41	29	1
1:A:11:LEU:CD1	2:B:315:LEU:CD1	0.48	2.86	37	1
2:B:340:ILE:HB	2:B:343:LEU:CD2	0.48	2.39	23	4
1:A:26:GLN:CD	1:A:30:VAL:CG1	0.48	2.82	28	2
1:A:51:LYS:NZ	2:B:352:LEU:HD11	0.48	2.22	27	1
1:A:11:LEU:CA	1:A:40:LEU:CD2	0.48	2.92	19	1
1:A:27:GLN:O	1:A:31:LEU:CD2	0.48	2.61	1	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:LEU:CD1	1:A:48:ARG:NH2	0.48	2.76	23	1
1:A:51:LYS:HZ3	2:B:352:LEU:CD1	0.48	2.21	27	1
1:A:52:TYR:CG	2:B:352:LEU:HD21	0.48	2.42	29	1
2:B:320:VAL:CG2	2:B:321:SER:N	0.48	2.76	33	1
1:A:8:PRO:HA	2:B:315:LEU:CD2	0.48	2.38	3	2
1:A:40:LEU:O	1:A:40:LEU:HD13	0.48	2.08	34	3
1:A:52:TYR:O	1:A:54:ALA:N	0.48	2.46	25	7
2:B:338:LEU:HD23	2:B:341:ASP:CG	0.48	2.29	14	1
1:A:51:LYS:NZ	2:B:338:LEU:CD1	0.48	2.76	27	2
1:A:38:PRO:O	1:A:41:MET:N	0.48	2.46	28	5
2:B:315:LEU:O	2:B:318:GLN:NE2	0.48	2.47	30	1
2:B:318:GLN:N	2:B:318:GLN:OE1	0.48	2.46	34	1
2:B:319:LEU:CD1	2:B:319:LEU:C	0.48	2.77	19	2
1:A:23:SER:HB3	1:A:24:PRO:HD3	0.48	1.85	30	2
2:B:338:LEU:HD13	2:B:341:ASP:OD2	0.48	2.08	3	1
2:B:332:ALA:HB3	2:B:342:LYS:HZ2	0.48	1.68	15	1
1:A:20:SER:HB2	1:A:21:PRO:HD2	0.48	1.85	36	10
1:A:41:MET:O	1:A:45:ILE:CB	0.48	2.62	25	3
1:A:18:LEU:HD13	1:A:26:GLN:NE2	0.48	2.23	14	2
1:A:18:LEU:HD11	2:B:319:LEU:HD13	0.48	1.85	12	1
1:A:33:ILE:O	1:A:37:ASN:OD1	0.48	2.31	30	1
1:A:42:ALA:O	1:A:46:LYS:HB2	0.48	2.09	24	9
2:B:351:VAL:O	2:B:353:SER:N	0.48	2.46	19	4
1:A:52:TYR:CE1	2:B:344:VAL:CG2	0.48	2.97	23	1
1:A:14:LEU:HD12	1:A:44:PHE:HD2	0.48	1.67	25	1
1:A:51:LYS:CG	2:B:338:LEU:HD12	0.48	2.39	25	1
1:A:11:LEU:HD22	2:B:315:LEU:CD1	0.48	2.39	37	1
2:B:311:ASP:H	2:B:314:ALA:HB3	0.48	1.69	3	6
2:B:338:LEU:HD23	2:B:338:LEU:N	0.48	2.22	15	1
1:A:48:ARG:HD3	2:B:343:LEU:CD1	0.48	2.38	27	2
2:B:313:LYS:O	2:B:317:GLU:HG3	0.48	2.09	14	5
1:A:14:LEU:HD21	2:B:319:LEU:CD1	0.48	2.39	34	1
1:A:52:TYR:C	1:A:54:ALA:N	0.47	2.67	13	11
1:A:14:LEU:CD2	2:B:319:LEU:CD1	0.47	2.90	4	1
1:A:36:SER:C	1:A:37:ASN:ND2	0.47	2.67	23	13
1:A:48:ARG:HA	1:A:48:ARG:NE	0.47	2.24	21	3
1:A:45:ILE:CD1	1:A:45:ILE:C	0.47	2.82	28	2
1:A:47:GLN:OE1	1:A:47:GLN:N	0.47	2.47	34	1
1:A:8:PRO:C	1:A:10:ALA:N	0.47	2.67	17	3
2:B:338:LEU:HD12	2:B:338:LEU:H	0.47	1.67	5	1
1:A:17:THR:O	1:A:26:GLN:OE1	0.47	2.31	32	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:LEU:HD23	1:A:48:ARG:NH2	0.47	2.24	26	1
2:B:318:GLN:CA	2:B:318:GLN:OE1	0.47	2.61	34	1
2:B:327:ASP:O	2:B:330:GLU:CG	0.47	2.62	8	6
1:A:17:THR:CG2	1:A:29:GLN:HB2	0.47	2.40	21	11
1:A:41:MET:HG3	1:A:42:ALA:N	0.47	2.25	3	6
1:A:45:ILE:O	1:A:45:ILE:CD1	0.47	2.62	17	3
2:B:316:LEU:O	2:B:319:LEU:N	0.47	2.47	37	3
1:A:14:LEU:HD12	1:A:33:ILE:HG13	0.47	1.85	26	1
2:B:353:SER:CB	2:B:357:PRO:HG3	0.47	2.39	37	1
2:B:335:ASP:O	2:B:336:ARG:C	0.47	2.52	24	17
2:B:311:ASP:OD1	2:B:312:GLU:N	0.47	2.48	3	1
1:A:8:PRO:HA	1:A:11:LEU:CD2	0.47	2.39	8	5
2:B:333:GLU:CG	2:B:334:LEU:HD12	0.47	2.40	14	2
2:B:318:GLN:HG2	2:B:319:LEU:N	0.47	2.24	16	1
1:A:27:GLN:OE1	1:A:31:LEU:HD23	0.47	2.10	37	1
2:B:319:LEU:HD13	2:B:320:VAL:CA	0.47	2.39	1	1
1:A:17:THR:CG2	1:A:29:GLN:HB3	0.47	2.38	36	10
1:A:11:LEU:HD11	2:B:318:GLN:NE2	0.47	2.25	5	1
1:A:11:LEU:HA	1:A:40:LEU:HD11	0.47	1.85	6	2
2:B:335:ASP:OD1	2:B:341:ASP:N	0.47	2.45	17	2
1:A:14:LEU:CD1	2:B:319:LEU:HD22	0.47	2.39	24	1
1:A:14:LEU:CD1	1:A:14:LEU:C	0.47	2.83	36	2
1:A:14:LEU:CD2	2:B:319:LEU:HD21	0.47	2.39	32	1
1:A:33:ILE:O	1:A:37:ASN:CB	0.47	2.61	33	1
1:A:14:LEU:CG	2:B:319:LEU:HG	0.47	2.39	34	1
1:A:33:ILE:C	1:A:35:LYS:N	0.47	2.67	30	17
2:B:339:GLY:O	2:B:342:LYS:CE	0.47	2.62	6	1
1:A:31:LEU:O	1:A:35:LYS:CB	0.47	2.62	8	2
2:B:343:LEU:HD12	2:B:343:LEU:C	0.47	2.28	23	2
1:A:18:LEU:CD2	2:B:343:LEU:HD21	0.47	2.39	30	1
1:A:37:ASN:CB	1:A:40:LEU:HD23	0.47	2.39	32	1
2:B:331:LEU:C	2:B:331:LEU:HD23	0.47	2.30	34	1
2:B:340:ILE:CB	2:B:343:LEU:HD12	0.47	2.35	35	1
2:B:355:LEU:O	2:B:356:VAL:CG1	0.47	2.63	9	1
1:A:6:ILE:HD12	1:A:40:LEU:HD11	0.47	1.87	19	1
1:A:33:ILE:O	1:A:37:ASN:CG	0.47	2.53	11	2
1:A:31:LEU:O	1:A:35:LYS:CG	0.47	2.63	4	1
1:A:15:LEU:HD21	2:B:322:PHE:CE2	0.47	2.44	7	1
1:A:18:LEU:HD21	1:A:44:PHE:CE1	0.47	2.45	13	1
1:A:11:LEU:CD2	1:A:12:GLN:N	0.47	2.77	16	5
1:A:47:GLN:NE2	2:B:320:VAL:HG22	0.47	2.22	28	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:GLN:N	1:A:29:GLN:CD	0.47	2.67	32	2
2:B:335:ASP:C	2:B:335:ASP:OD1	0.47	2.53	32	1
1:A:37:ASN:CB	1:A:40:LEU:HD13	0.47	2.40	37	1
1:A:14:LEU:CD2	2:B:319:LEU:CD2	0.47	2.91	17	3
1:A:48:ARG:CZ	1:A:48:ARG:HB3	0.47	2.39	20	2
1:A:33:ILE:C	1:A:37:ASN:OD1	0.47	2.53	30	1
2:B:344:VAL:HG22	2:B:357:PRO:CB	0.47	2.40	35	1
1:A:37:ASN:O	1:A:41:MET:CG	0.47	2.62	19	1
2:B:361:LEU:CD1	2:B:361:LEU:N	0.47	2.78	26	2
2:B:317:GLU:O	2:B:321:SER:HB2	0.47	2.09	34	5
1:A:6:ILE:HG21	1:A:40:LEU:HG	0.47	1.86	19	1
2:B:336:ARG:O	2:B:337:ALA:C	0.47	2.52	13	12
1:A:48:ARG:NH2	2:B:340:ILE:HD13	0.47	2.07	20	1
1:A:44:PHE:CE1	1:A:48:ARG:CG	0.47	2.98	22	1
1:A:48:ARG:N	1:A:48:ARG:HD2	0.47	2.25	37	1
1:A:51:LYS:CD	2:B:338:LEU:HD23	0.46	2.37	5	1
2:B:354:LYS:O	2:B:356:VAL:N	0.46	2.48	12	6
1:A:6:ILE:CG1	1:A:39:GLN:CB	0.46	2.93	20	4
1:A:18:LEU:CD2	1:A:44:PHE:CE2	0.46	2.92	30	1
2:B:340:ILE:CA	2:B:343:LEU:HD23	0.46	2.40	19	1
2:B:340:ILE:C	2:B:340:ILE:CD1	0.46	2.83	25	9
1:A:56:GLN:CG	1:A:56:GLN:O	0.46	2.62	4	2
1:A:44:PHE:CD1	1:A:44:PHE:C	0.46	2.88	18	3
1:A:45:ILE:CG2	1:A:46:LYS:N	0.46	2.78	22	11
2:B:351:VAL:C	2:B:353:SER:N	0.46	2.68	27	2
1:A:39:GLN:NE2	1:A:39:GLN:O	0.46	2.49	28	2
1:A:15:LEU:C	1:A:15:LEU:CD1	0.46	2.83	29	1
2:B:311:ASP:CG	2:B:312:GLU:N	0.46	2.69	3	3
2:B:329:THR:HG23	2:B:336:ARG:CA	0.46	2.39	11	2
1:A:37:ASN:CB	1:A:40:LEU:HB2	0.46	2.41	19	4
1:A:18:LEU:HD22	1:A:18:LEU:H	0.46	1.71	10	3
1:A:12:GLN:CG	1:A:13:ASP:N	0.46	2.79	12	1
1:A:22:SER:OG	1:A:26:GLN:NE2	0.46	2.48	22	3
2:B:335:ASP:OD1	2:B:336:ARG:N	0.46	2.48	32	1
2:B:318:GLN:OE1	2:B:319:LEU:N	0.46	2.48	35	1
2:B:311:ASP:O	2:B:315:LEU:CD1	0.46	2.64	22	3
2:B:339:GLY:O	2:B:342:LYS:NZ	0.46	2.49	6	1
1:A:15:LEU:CD2	1:A:15:LEU:C	0.46	2.84	32	4
1:A:17:THR:CG2	1:A:26:GLN:NE2	0.46	2.76	17	2
1:A:48:ARG:CD	2:B:343:LEU:CD1	0.46	2.85	27	1
2:B:329:THR:CA	2:B:342:LYS:NZ	0.46	2.78	28	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:33:ILE:HA	1:A:37:ASN:OD1	0.46	2.10	30	1
2:B:353:SER:O	2:B:356:VAL:CG1	0.46	2.63	15	1
1:A:48:ARG:NE	1:A:48:ARG:HA	0.46	2.25	36	2
2:B:351:VAL:HG21	2:B:361:LEU:HD22	0.46	1.85	10	1
2:B:345:GLN:CD	2:B:358:ARG:CG	0.46	2.84	25	1
2:B:338:LEU:CB	2:B:341:ASP:CB	0.46	2.92	33	1
1:A:51:LYS:NZ	1:A:55:ASN:HD21	0.46	2.07	19	1
2:B:311:ASP:O	2:B:315:LEU:CD2	0.46	2.64	2	16
1:A:30:VAL:O	1:A:34:LEU:HB2	0.46	2.11	19	12
2:B:338:LEU:CD2	2:B:338:LEU:N	0.46	2.79	6	1
1:A:30:VAL:O	1:A:34:LEU:CB	0.46	2.64	22	3
2:B:351:VAL:C	2:B:352:LEU:HD13	0.46	2.31	10	3
1:A:14:LEU:HD12	1:A:33:ILE:HB	0.46	1.88	18	1
2:B:318:GLN:C	2:B:318:GLN:CD	0.46	2.75	20	1
1:A:6:ILE:CG2	1:A:40:LEU:CD2	0.46	2.91	22	2
2:B:338:LEU:O	2:B:340:ILE:N	0.46	2.43	24	2
1:A:55:ASN:C	1:A:55:ASN:OD1	0.46	2.53	33	1
1:A:51:LYS:NZ	1:A:55:ASN:ND2	0.46	2.64	19	1
1:A:12:GLN:O	1:A:16:ARG:HB3	0.46	2.11	5	17
1:A:14:LEU:O	1:A:17:THR:N	0.46	2.48	21	10
2:B:332:ALA:O	2:B:335:ASP:N	0.46	2.47	12	7
1:A:48:ARG:CZ	2:B:343:LEU:HB3	0.46	2.41	20	1
2:B:335:ASP:C	2:B:337:ALA:N	0.46	2.68	22	33
1:A:11:LEU:CD2	1:A:11:LEU:O	0.46	2.62	4	2
1:A:41:MET:O	1:A:45:ILE:HB	0.46	2.11	6	3
1:A:33:ILE:HG13	1:A:34:LEU:HD13	0.46	1.87	13	5
2:B:312:GLU:HG2	2:B:316:LEU:HD21	0.46	1.87	16	1
2:B:312:GLU:HA	2:B:315:LEU:CD2	0.46	2.41	30	2
2:B:345:GLN:N	2:B:345:GLN:OE1	0.46	2.49	17	1
1:A:39:GLN:O	1:A:39:GLN:NE2	0.46	2.49	19	1
1:A:52:TYR:CE1	2:B:344:VAL:HB	0.45	2.46	1	5
1:A:14:LEU:HD22	1:A:33:ILE:CG1	0.45	2.42	8	2
1:A:14:LEU:O	1:A:18:LEU:HD23	0.45	2.11	24	1
2:B:345:GLN:NE2	2:B:357:PRO:O	0.45	2.49	8	1
2:B:317:GLU:HA	2:B:320:VAL:CG1	0.45	2.41	31	3
2:B:345:GLN:O	2:B:361:LEU:CD1	0.45	2.64	20	1
1:A:14:LEU:HD12	1:A:33:ILE:CG1	0.45	2.42	27	2
1:A:18:LEU:HD13	2:B:323:LEU:HD21	0.45	1.88	30	1
1:A:45:ILE:O	1:A:49:THR:HB	0.45	2.12	17	4
1:A:21:PRO:O	1:A:22:SER:OG	0.45	2.34	29	7
1:A:33:ILE:O	1:A:34:LEU:C	0.45	2.55	24	11

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:353:SER:O	2:B:354:LYS:C	0.45	2.55	8	6
2:B:356:VAL:HG21	2:B:359:GLY:C	0.45	2.31	10	1
1:A:19:LYS:CE	2:B:322:PHE:CZ	0.45	3.00	36	1
2:B:358:ARG:HB3	2:B:361:LEU:CD1	0.45	2.40	13	4
2:B:345:GLN:HG2	2:B:358:ARG:CG	0.45	2.42	8	8
1:A:33:ILE:O	1:A:37:ASN:ND2	0.45	2.50	11	1
2:B:353:SER:O	2:B:354:LYS:O	0.45	2.35	28	3
2:B:341:ASP:OD1	2:B:341:ASP:C	0.45	2.54	28	3
1:A:51:LYS:HG2	2:B:338:LEU:HD23	0.45	1.88	22	1
1:A:14:LEU:HD12	1:A:44:PHE:CD2	0.45	2.45	25	1
1:A:56:GLN:HG3	1:A:56:GLN:O	0.45	2.12	25	1
1:A:14:LEU:HG	2:B:319:LEU:HD22	0.45	1.88	6	1
2:B:340:ILE:C	2:B:342:LYS:N	0.45	2.70	30	7
2:B:340:ILE:O	2:B:343:LEU:HG	0.45	2.11	14	2
1:A:14:LEU:HD21	2:B:319:LEU:CG	0.45	2.40	16	2
2:B:344:VAL:CG1	2:B:352:LEU:HD11	0.45	2.42	16	1
1:A:14:LEU:HD23	2:B:319:LEU:CG	0.45	2.35	27	3
2:B:338:LEU:HD13	2:B:341:ASP:OD1	0.45	2.12	3	1
2:B:332:ALA:O	2:B:336:ARG:N	0.45	2.49	22	3
1:A:37:ASN:CB	1:A:40:LEU:HB3	0.45	2.42	33	2
2:B:351:VAL:HG23	2:B:352:LEU:H	0.45	1.71	11	3
1:A:51:LYS:HE2	2:B:338:LEU:CD1	0.45	2.41	8	1
2:B:332:ALA:HB3	2:B:342:LYS:HZ3	0.45	1.71	13	1
1:A:14:LEU:CD2	2:B:319:LEU:HG	0.45	2.42	16	2
1:A:30:VAL:O	1:A:34:LEU:CG	0.45	2.65	22	1
2:B:332:ALA:HB2	2:B:342:LYS:HZ1	0.45	1.70	22	1
1:A:49:THR:C	1:A:51:LYS:N	0.45	2.70	31	1
2:B:337:ALA:CB	2:B:355:LEU:HD22	0.45	2.42	12	1
2:B:326:LYS:CE	2:B:326:LYS:HA	0.45	2.41	28	2
2:B:332:ALA:CB	2:B:342:LYS:CE	0.45	2.95	17	2
2:B:331:LEU:HD12	2:B:331:LEU:C	0.45	2.32	29	1
2:B:329:THR:HG23	2:B:336:ARG:CD	0.45	2.42	1	2
2:B:358:ARG:HB3	2:B:361:LEU:CD2	0.45	2.42	32	6
1:A:34:LEU:HD22	1:A:41:MET:CB	0.45	2.42	35	2
2:B:360:SER:C	2:B:361:LEU:CD2	0.45	2.85	7	2
1:A:52:TYR:CE1	2:B:352:LEU:HD21	0.45	2.47	8	1
1:A:6:ILE:HD12	1:A:37:ASN:OD1	0.45	2.12	37	2
1:A:6:ILE:HG13	1:A:40:LEU:CD2	0.45	2.42	27	1
2:B:341:ASP:HA	2:B:344:VAL:HG12	0.44	1.88	6	5
1:A:6:ILE:CG2	1:A:7:SER:N	0.44	2.81	8	3
2:B:341:ASP:C	2:B:341:ASP:OD2	0.44	2.56	18	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:29:GLN:CD	1:A:29:GLN:N	0.44	2.70	28	2
1:A:14:LEU:HD13	1:A:18:LEU:CD2	0.44	2.42	24	1
1:A:44:PHE:CE1	1:A:48:ARG:CD	0.44	3.00	36	1
1:A:11:LEU:CD1	1:A:11:LEU:H	0.44	2.23	16	2
1:A:11:LEU:O	1:A:11:LEU:CD2	0.44	2.64	17	2
1:A:11:LEU:HD22	2:B:315:LEU:HD12	0.44	1.89	37	1
2:B:344:VAL:O	2:B:351:VAL:CG2	0.44	2.58	37	1
2:B:311:ASP:OD1	2:B:313:LYS:N	0.44	2.50	19	1
1:A:45:ILE:O	1:A:49:THR:HG22	0.44	2.12	30	2
2:B:352:LEU:CD2	2:B:352:LEU:N	0.44	2.79	13	2
2:B:344:VAL:C	2:B:346:GLY:N	0.44	2.70	21	10
2:B:332:ALA:HB1	2:B:342:LYS:NZ	0.44	2.26	14	1
1:A:52:TYR:C	1:A:56:GLN:CG	0.44	2.86	25	1
1:A:14:LEU:HD22	1:A:40:LEU:HD12	0.44	1.89	26	1
2:B:312:GLU:O	2:B:316:LEU:HG	0.44	2.11	9	2
1:A:51:LYS:HE2	2:B:338:LEU:HD12	0.44	1.90	1	1
1:A:19:LYS:O	1:A:20:SER:O	0.44	2.36	13	23
2:B:318:GLN:NE2	2:B:318:GLN:C	0.44	2.71	11	1
1:A:48:ARG:HH22	2:B:323:LEU:HD22	0.44	1.72	15	1
2:B:318:GLN:NE2	2:B:318:GLN:O	0.44	2.50	26	1
1:A:14:LEU:HD13	1:A:44:PHE:HD2	0.44	1.73	34	1
1:A:9:SER:C	1:A:11:LEU:N	0.44	2.70	3	2
1:A:14:LEU:CG	2:B:319:LEU:HD22	0.44	2.41	6	1
1:A:11:LEU:CA	1:A:40:LEU:HD11	0.44	2.41	9	2
1:A:18:LEU:HD12	2:B:343:LEU:HD21	0.44	1.87	25	2
1:A:6:ILE:CD1	1:A:37:ASN:CB	0.44	2.95	11	1
1:A:18:LEU:H	1:A:18:LEU:HD22	0.44	1.72	14	3
2:B:322:PHE:O	2:B:326:LYS:NZ	0.44	2.49	22	1
2:B:340:ILE:HD13	2:B:343:LEU:HD11	0.44	1.89	23	1
1:A:30:VAL:HG23	1:A:31:LEU:N	0.44	2.28	31	6
2:B:359:GLY:O	2:B:360:SER:OG	0.44	2.36	5	2
2:B:345:GLN:CG	2:B:358:ARG:HG2	0.44	2.42	15	5
1:A:49:THR:HG23	1:A:53:VAL:HB	0.44	1.90	13	2
1:A:48:ARG:CZ	2:B:343:LEU:O	0.44	2.66	1	1
1:A:37:ASN:HB3	1:A:40:LEU:HB3	0.44	1.90	4	2
2:B:352:LEU:O	2:B:353:SER:O	0.44	2.36	11	4
1:A:48:ARG:O	1:A:52:TYR:CE2	0.44	2.71	12	2
1:A:14:LEU:HD11	1:A:44:PHE:CE2	0.44	2.48	17	2
1:A:14:LEU:C	1:A:14:LEU:CD2	0.44	2.85	20	1
1:A:14:LEU:CD1	2:B:319:LEU:CD2	0.44	2.95	24	2
1:A:47:GLN:OE1	1:A:48:ARG:NH2	0.44	2.51	27	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:341:ASP:O	2:B:357:PRO:HB2	0.44	2.12	37	1
2:B:323:LEU:CD2	2:B:326:LYS:HZ1	0.44	2.25	3	1
2:B:338:LEU:HD23	2:B:341:ASP:HB2	0.44	1.90	17	1
1:A:14:LEU:CD2	1:A:44:PHE:CD2	0.44	3.01	21	1
1:A:10:ALA:HB2	1:A:37:ASN:OD1	0.44	2.12	28	3
2:B:344:VAL:HG21	2:B:352:LEU:HD21	0.44	1.88	4	1
1:A:15:LEU:CD2	2:B:322:PHE:CE1	0.44	3.01	7	1
2:B:312:GLU:CG	2:B:316:LEU:HD21	0.44	2.42	16	1
1:A:45:ILE:C	1:A:45:ILE:CD1	0.44	2.86	24	1
1:A:43:ALA:HB2	2:B:316:LEU:HD22	0.44	1.88	34	4
1:A:14:LEU:HD11	2:B:319:LEU:HG	0.44	1.89	34	1
1:A:26:GLN:OE1	1:A:30:VAL:CG1	0.43	2.66	2	2
1:A:14:LEU:CD2	1:A:33:ILE:HB	0.43	2.43	25	2
1:A:18:LEU:HD13	1:A:26:GLN:HE21	0.43	1.73	10	1
1:A:33:ILE:CG1	1:A:34:LEU:HD13	0.43	2.44	13	1
1:A:45:ILE:O	1:A:48:ARG:CG	0.43	2.65	18	1
1:A:16:ARG:O	1:A:19:LYS:HB2	0.43	2.13	20	2
2:B:345:GLN:O	2:B:361:LEU:HD11	0.43	2.13	20	1
1:A:46:LYS:O	1:A:50:ALA:N	0.43	2.52	24	1
2:B:316:LEU:O	2:B:320:VAL:HB	0.43	2.12	35	1
1:A:45:ILE:O	1:A:49:THR:CG2	0.43	2.66	30	2
1:A:49:THR:HA	1:A:52:TYR:CE2	0.43	2.47	34	2
1:A:33:ILE:CB	1:A:37:ASN:OD1	0.43	2.66	20	1
1:A:48:ARG:NH1	1:A:52:TYR:OH	0.43	2.51	20	1
2:B:341:ASP:OD2	2:B:357:PRO:HA	0.43	2.14	35	2
2:B:343:LEU:HD22	2:B:343:LEU:N	0.43	2.28	31	1
1:A:11:LEU:CD1	2:B:318:GLN:NE2	0.43	2.81	5	1
1:A:15:LEU:HD13	1:A:15:LEU:C	0.43	2.34	7	1
2:B:344:VAL:HG22	2:B:357:PRO:HG3	0.43	1.88	23	3
1:A:11:LEU:N	1:A:11:LEU:CD2	0.43	2.79	29	2
1:A:38:PRO:C	1:A:40:LEU:N	0.43	2.69	30	6
2:B:341:ASP:OD1	2:B:342:LYS:N	0.43	2.52	21	1
1:A:52:TYR:CD1	2:B:352:LEU:HD12	0.43	2.47	27	2
1:A:6:ILE:HD12	1:A:40:LEU:HD12	0.43	1.89	37	1
1:A:51:LYS:HB3	2:B:340:ILE:HD11	0.43	1.89	6	1
2:B:328:GLU:HB3	2:B:342:LYS:HZ3	0.43	1.74	12	1
2:B:326:LYS:HB2	2:B:340:ILE:CG2	0.43	2.43	13	1
2:B:340:ILE:HD12	2:B:344:VAL:HG23	0.43	1.88	18	1
1:A:35:LYS:CG	1:A:36:SER:N	0.43	2.81	33	1
2:B:344:VAL:HG22	2:B:351:VAL:HB	0.43	1.90	9	1
2:B:345:GLN:HB2	2:B:358:ARG:CG	0.43	2.42	18	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:6:ILE:CG1	1:A:39:GLN:HB3	0.43	2.44	15	3
2:B:341:ASP:C	2:B:341:ASP:OD1	0.43	2.57	23	2
1:A:15:LEU:CD2	2:B:322:PHE:CE2	0.43	3.02	29	1
1:A:6:ILE:CG2	1:A:40:LEU:HD22	0.43	2.42	32	1
1:A:11:LEU:N	1:A:40:LEU:HD13	0.43	2.28	36	1
1:A:18:LEU:CD1	2:B:323:LEU:CD2	0.43	2.96	19	1
1:A:6:ILE:CD1	1:A:40:LEU:HD12	0.43	2.43	19	1
2:B:332:ALA:HB1	2:B:335:ASP:OD2	0.43	2.14	8	1
1:A:32:ASN:O	1:A:35:LYS:HG2	0.43	2.14	33	4
2:B:313:LYS:HE3	2:B:314:ALA:CA	0.43	2.44	10	4
1:A:39:GLN:OE1	2:B:312:GLU:OE1	0.43	2.37	11	1
1:A:14:LEU:HD13	1:A:14:LEU:C	0.43	2.33	24	1
1:A:18:LEU:HD11	2:B:343:LEU:HD21	0.43	1.88	25	1
2:B:338:LEU:HD12	2:B:341:ASP:CB	0.43	2.43	31	1
2:B:345:GLN:HB2	2:B:358:ARG:CB	0.43	2.44	20	2
1:A:10:ALA:C	1:A:12:GLN:N	0.43	2.71	16	4
1:A:23:SER:OG	1:A:24:PRO:HD3	0.43	2.14	31	4
2:B:338:LEU:HB2	2:B:341:ASP:CB	0.43	2.44	33	2
1:A:44:PHE:CD1	1:A:48:ARG:HG2	0.43	2.49	22	1
1:A:14:LEU:CG	1:A:40:LEU:HD11	0.43	2.44	24	1
1:A:14:LEU:HD22	1:A:33:ILE:HB	0.43	1.90	25	1
2:B:331:LEU:HD23	2:B:332:ALA:N	0.43	2.28	34	1
2:B:340:ILE:HA	2:B:343:LEU:HD23	0.43	1.90	19	1
2:B:332:ALA:C	2:B:334:LEU:N	0.43	2.72	20	8
1:A:28:GLN:O	1:A:32:ASN:HB2	0.43	2.14	32	8
1:A:14:LEU:HD22	2:B:319:LEU:CD1	0.43	2.44	4	2
2:B:346:GLY:HA3	2:B:351:VAL:CG1	0.43	2.44	14	1
1:A:31:LEU:O	1:A:35:LYS:N	0.43	2.52	15	1
1:A:18:LEU:HD11	1:A:44:PHE:HE2	0.43	1.73	26	1
1:A:14:LEU:HD13	1:A:33:ILE:CD1	0.43	2.43	28	1
2:B:340:ILE:O	2:B:343:LEU:HD22	0.43	2.13	28	1
2:B:335:ASP:O	2:B:341:ASP:OD1	0.43	2.36	29	1
1:A:20:SER:OG	1:A:26:GLN:HB2	0.42	2.14	12	6
1:A:49:THR:O	1:A:52:TYR:N	0.42	2.51	13	2
2:B:313:LYS:O	2:B:317:GLU:CB	0.42	2.67	30	4
2:B:339:GLY:C	2:B:340:ILE:HG23	0.42	2.34	29	2
1:A:37:ASN:HB3	1:A:40:LEU:CD1	0.42	2.44	37	2
1:A:14:LEU:HG	2:B:319:LEU:CD2	0.42	2.44	24	1
2:B:332:ALA:CB	2:B:335:ASP:OD1	0.42	2.66	29	1
2:B:335:ASP:CG	2:B:341:ASP:OD1	0.42	2.58	31	1
2:B:335:ASP:OD2	2:B:339:GLY:O	0.42	2.37	32	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:42:ALA:O	1:A:45:ILE:HG22	0.42	2.14	30	3
1:A:22:SER:O	2:B:345:GLN:NE2	0.42	2.50	13	1
2:B:340:ILE:CD1	2:B:344:VAL:CG1	0.42	2.96	35	1
2:B:344:VAL:HB	2:B:357:PRO:CB	0.42	2.44	19	1
1:A:52:TYR:O	1:A:53:VAL:C	0.42	2.58	19	12
2:B:334:LEU:C	2:B:334:LEU:CD2	0.42	2.88	20	1
1:A:18:LEU:HD22	1:A:18:LEU:N	0.42	2.30	22	1
2:B:335:ASP:OD2	2:B:339:GLY:C	0.42	2.58	23	1
2:B:337:ALA:CB	2:B:338:LEU:HD22	0.42	2.44	24	1
2:B:354:LYS:O	2:B:355:LEU:O	0.42	2.38	26	1
2:B:318:GLN:OE1	2:B:319:LEU:CB	0.42	2.68	35	1
1:A:14:LEU:HD22	2:B:319:LEU:HD21	0.42	1.90	3	1
1:A:14:LEU:HD21	2:B:319:LEU:HD13	0.42	1.85	4	1
1:A:42:ALA:O	1:A:46:LYS:HG3	0.42	2.14	10	1
1:A:47:GLN:CD	2:B:320:VAL:CG2	0.42	2.82	12	1
1:A:30:VAL:CG2	1:A:31:LEU:HD22	0.42	2.45	33	2
1:A:36:SER:O	1:A:37:ASN:CG	0.42	2.58	23	1
2:B:352:LEU:HD22	2:B:353:SER:H	0.42	1.74	24	1
1:A:6:ILE:HB	1:A:39:GLN:CB	0.42	2.43	32	1
1:A:44:PHE:CZ	1:A:48:ARG:HD3	0.42	2.49	37	1
1:A:18:LEU:HG	2:B:323:LEU:CD2	0.42	2.45	8	1
1:A:6:ILE:CD1	1:A:37:ASN:HB3	0.42	2.45	12	2
1:A:11:LEU:CD2	1:A:11:LEU:N	0.42	2.82	15	1
1:A:28:GLN:OE1	1:A:32:ASN:CG	0.42	2.58	36	1
1:A:48:ARG:HH22	2:B:326:LYS:HZ1	0.42	1.57	37	1
1:A:10:ALA:HB1	1:A:37:ASN:CG	0.42	2.34	1	1
1:A:45:ILE:O	1:A:48:ARG:HG3	0.42	2.15	2	1
2:B:329:THR:CG2	2:B:336:ARG:HG2	0.42	2.44	2	1
2:B:352:LEU:CD1	2:B:352:LEU:N	0.42	2.81	6	1
1:A:14:LEU:CD2	1:A:33:ILE:HG13	0.42	2.44	8	3
2:B:328:GLU:OE1	2:B:328:GLU:O	0.42	2.38	15	1
1:A:17:THR:HG22	1:A:26:GLN:HE22	0.42	1.67	31	2
1:A:17:THR:C	1:A:19:LYS:N	0.42	2.73	33	1
2:B:334:LEU:HD13	2:B:334:LEU:C	0.42	2.35	4	1
1:A:14:LEU:O	1:A:17:THR:HB	0.42	2.15	20	3
2:B:351:VAL:CG1	2:B:361:LEU:HD23	0.42	2.39	10	1
2:B:354:LYS:O	2:B:355:LEU:C	0.42	2.58	12	3
1:A:52:TYR:O	1:A:55:ASN:OD1	0.42	2.37	17	2
2:B:335:ASP:OD2	2:B:341:ASP:N	0.42	2.53	18	1
2:B:359:GLY:H	2:B:361:LEU:HD11	0.42	1.75	26	1
1:A:52:TYR:CE1	2:B:344:VAL:HG11	0.42	2.49	27	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:LEU:HD11	1:A:18:LEU:HD11	0.42	1.91	36	1
1:A:20:SER:OG	1:A:26:GLN:CG	0.42	2.68	19	1
1:A:37:ASN:OD1	1:A:40:LEU:HB3	0.42	2.14	19	1
1:A:37:ASN:OD1	1:A:40:LEU:CG	0.42	2.67	7	1
2:B:323:LEU:HD23	2:B:323:LEU:HA	0.42	1.81	14	2
2:B:337:ALA:HB3	2:B:338:LEU:HD22	0.42	1.90	24	1
1:A:52:TYR:O	1:A:56:GLN:HG3	0.42	2.14	25	1
1:A:17:THR:CG2	1:A:33:ILE:HD11	0.42	2.39	30	1
1:A:14:LEU:HG	1:A:15:LEU:N	0.42	2.30	34	1
1:A:51:LYS:O	1:A:51:LYS:HE2	0.42	2.15	35	1
1:A:51:LYS:CE	2:B:338:LEU:HD12	0.42	2.44	1	1
1:A:14:LEU:HD23	1:A:14:LEU:C	0.42	2.35	4	1
1:A:39:GLN:CD	1:A:39:GLN:O	0.42	2.58	5	2
2:B:338:LEU:N	2:B:338:LEU:CD1	0.42	2.81	5	1
1:A:26:GLN:NE2	1:A:30:VAL:CG1	0.42	2.83	9	2
1:A:46:LYS:HA	1:A:46:LYS:CE	0.42	2.45	6	3
2:B:316:LEU:C	2:B:320:VAL:HG12	0.42	2.33	12	2
2:B:351:VAL:HG21	2:B:361:LEU:CB	0.42	2.45	12	1
1:A:51:LYS:O	1:A:51:LYS:NZ	0.42	2.53	14	1
1:A:45:ILE:C	1:A:45:ILE:HD13	0.42	2.34	24	1
1:A:39:GLN:O	1:A:39:GLN:OE1	0.42	2.38	27	1
1:A:38:PRO:O	1:A:40:LEU:N	0.42	2.53	30	1
1:A:28:GLN:O	1:A:32:ASN:CG	0.41	2.59	13	7
1:A:14:LEU:CD1	1:A:33:ILE:HG13	0.41	2.45	22	3
1:A:9:SER:O	1:A:10:ALA:C	0.41	2.58	37	2
2:B:355:LEU:O	2:B:357:PRO:CD	0.41	2.69	1	1
1:A:8:PRO:O	1:A:12:GLN:NE2	0.41	2.53	18	1
1:A:11:LEU:HG	2:B:315:LEU:CB	0.41	2.46	18	1
1:A:11:LEU:H	1:A:11:LEU:CD1	0.41	2.17	23	1
2:B:338:LEU:HD12	2:B:338:LEU:N	0.41	2.30	30	1
1:A:30:VAL:HG22	1:A:31:LEU:N	0.41	2.30	37	1
2:B:342:LYS:CG	2:B:343:LEU:HD22	0.41	2.46	7	1
2:B:346:GLY:CA	2:B:351:VAL:CG1	0.41	2.99	14	1
2:B:355:LEU:O	2:B:356:VAL:CG2	0.41	2.68	14	1
2:B:335:ASP:CB	2:B:341:ASP:OD1	0.41	2.68	29	1
2:B:335:ASP:CG	2:B:342:LYS:HZ2	0.41	2.19	29	1
1:A:52:TYR:CZ	2:B:344:VAL:HB	0.41	2.50	29	1
2:B:332:ALA:O	2:B:335:ASP:OD1	0.41	2.39	32	1
1:A:5:SER:O	1:A:39:GLN:OE1	0.41	2.39	2	1
1:A:13:ASP:O	1:A:17:THR:CB	0.41	2.68	18	2
2:B:343:LEU:O	2:B:343:LEU:CD1	0.41	2.62	13	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:332:ALA:CB	2:B:342:LYS:HZ3	0.41	2.29	22	1
2:B:341:ASP:OD2	2:B:341:ASP:C	0.41	2.59	36	1
1:A:45:ILE:HD11	1:A:48:ARG:CZ	0.41	2.45	2	1
2:B:343:LEU:C	2:B:343:LEU:CD1	0.41	2.74	13	1
2:B:326:LYS:HZ2	2:B:343:LEU:HD11	0.41	1.75	33	1
2:B:344:VAL:CG2	2:B:352:LEU:CD2	0.41	2.96	4	1
2:B:344:VAL:HG23	2:B:351:VAL:HA	0.41	1.91	13	1
2:B:326:LYS:HA	2:B:326:LYS:CE	0.41	2.44	21	1
1:A:22:SER:O	1:A:23:SER:HB3	0.41	2.16	19	2
1:A:39:GLN:O	1:A:39:GLN:CD	0.41	2.58	28	1
2:B:320:VAL:HG23	2:B:321:SER:N	0.41	2.29	33	1
2:B:340:ILE:O	2:B:344:VAL:HG13	0.41	2.15	35	1
2:B:344:VAL:CG2	2:B:357:PRO:HG3	0.41	2.45	35	1
2:B:327:ASP:C	2:B:329:THR:N	0.41	2.74	35	2
2:B:345:GLN:HG3	2:B:358:ARG:CB	0.41	2.45	8	3
2:B:345:GLN:CB	2:B:357:PRO:O	0.41	2.68	13	1
2:B:338:LEU:HD23	2:B:341:ASP:OD2	0.41	2.14	14	1
2:B:313:LYS:HE3	2:B:314:ALA:CB	0.41	2.46	18	1
2:B:320:VAL:HG13	2:B:321:SER:N	0.41	2.31	23	1
1:A:18:LEU:HD11	2:B:319:LEU:HD21	0.41	1.92	5	1
1:A:15:LEU:CD2	2:B:322:PHE:CZ	0.41	3.04	7	1
1:A:53:VAL:HG23	1:A:56:GLN:NE2	0.41	2.31	8	1
2:B:332:ALA:CB	2:B:342:LYS:HE2	0.41	2.46	16	1
1:A:14:LEU:HD21	1:A:34:LEU:HD21	0.41	1.93	24	1
2:B:313:LYS:CG	2:B:314:ALA:N	0.41	2.84	37	1
1:A:46:LYS:CA	1:A:49:THR:HG22	0.41	2.46	2	1
2:B:329:THR:CG2	2:B:336:ARG:HG3	0.41	2.46	4	1
1:A:48:ARG:NH2	2:B:340:ILE:HG12	0.41	2.31	36	2
1:A:48:ARG:NH2	2:B:340:ILE:HB	0.41	2.28	10	2
2:B:344:VAL:O	2:B:344:VAL:HG22	0.41	2.16	10	2
2:B:329:THR:CG2	2:B:336:ARG:HD2	0.41	2.46	15	1
1:A:45:ILE:HG23	1:A:46:LYS:N	0.41	2.31	22	1
1:A:33:ILE:HB	1:A:37:ASN:OD1	0.41	2.16	25	1
1:A:51:LYS:HG3	2:B:338:LEU:HD12	0.41	1.92	25	1
1:A:51:LYS:HG3	2:B:340:ILE:CD1	0.41	2.46	27	1
1:A:10:ALA:HB3	1:A:40:LEU:HD21	0.41	1.91	32	1
2:B:338:LEU:CD1	2:B:355:LEU:HG	0.41	2.46	32	1
2:B:352:LEU:H	2:B:352:LEU:CD1	0.41	2.14	32	1
1:A:18:LEU:CB	2:B:322:PHE:CE1	0.41	3.04	33	1
2:B:319:LEU:HD21	2:B:323:LEU:HG	0.41	1.93	34	1
2:B:328:GLU:C	2:B:342:LYS:NZ	0.41	2.74	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:312:GLU:HG2	2:B:316:LEU:CD2	0.41	2.46	5	1
1:A:15:LEU:CD2	2:B:322:PHE:CD1	0.41	3.03	7	1
1:A:37:ASN:HB3	1:A:40:LEU:CB	0.41	2.45	29	2
2:B:355:LEU:C	2:B:356:VAL:HG22	0.41	2.36	14	1
2:B:345:GLN:O	2:B:358:ARG:HB2	0.41	2.15	14	1
1:A:38:PRO:O	1:A:41:MET:HG3	0.41	2.16	18	2
2:B:342:LYS:HB3	2:B:342:LYS:NZ	0.41	2.31	21	1
2:B:317:GLU:CA	2:B:320:VAL:HG12	0.41	2.46	25	1
1:A:21:PRO:O	2:B:328:GLU:OE2	0.41	2.39	19	1
1:A:41:MET:HG2	1:A:42:ALA:N	0.40	2.30	6	1
1:A:52:TYR:O	1:A:56:GLN:HG2	0.40	2.16	8	1
2:B:341:ASP:OD1	2:B:357:PRO:HA	0.40	2.16	18	2
1:A:34:LEU:CD1	1:A:34:LEU:N	0.40	2.84	20	1
2:B:335:ASP:HB2	2:B:342:LYS:CE	0.40	2.47	32	1
1:A:18:LEU:HB2	2:B:322:PHE:CZ	0.40	2.51	33	1
1:A:43:ALA:CB	2:B:316:LEU:HD22	0.40	2.46	34	2
2:B:319:LEU:CD2	2:B:323:LEU:HG	0.40	2.46	34	1
1:A:28:GLN:O	1:A:32:ASN:N	0.40	2.54	35	1
1:A:22:SER:CB	2:B:342:LYS:HG3	0.40	2.46	2	1
2:B:345:GLN:NE2	2:B:358:ARG:NH1	0.40	2.68	5	1
2:B:325:GLY:O	2:B:326:LYS:C	0.40	2.59	13	2
1:A:10:ALA:O	1:A:11:LEU:C	0.40	2.60	14	1
2:B:352:LEU:CD2	2:B:352:LEU:H	0.40	2.21	28	1
1:A:40:LEU:HD13	1:A:40:LEU:HA	0.40	1.81	29	1
2:B:315:LEU:N	2:B:315:LEU:HD12	0.40	2.31	34	1
1:A:47:GLN:O	1:A:50:ALA:HB3	0.40	2.15	9	1
1:A:46:LYS:CE	1:A:46:LYS:HA	0.40	2.47	1	1
1:A:9:SER:O	1:A:11:LEU:N	0.40	2.54	3	1
2:B:340:ILE:O	2:B:343:LEU:HB2	0.40	2.16	3	1
1:A:11:LEU:HD12	2:B:315:LEU:CD2	0.40	2.46	17	1
2:B:342:LYS:O	2:B:345:GLN:OE1	0.40	2.40	17	1
1:A:22:SER:HB3	2:B:343:LEU:CD1	0.40	2.46	20	1
1:A:27:GLN:HG2	1:A:28:GLN:N	0.40	2.29	21	1
1:A:51:LYS:HD2	2:B:338:LEU:CD2	0.40	2.46	33	1
1:A:5:SER:O	1:A:6:ILE:CB	0.40	2.69	34	1
2:B:320:VAL:CG1	2:B:321:SER:N	0.40	2.84	23	1
2:B:341:ASP:CG	2:B:341:ASP:O	0.40	2.59	23	1
1:A:6:ILE:CD1	1:A:40:LEU:CD2	0.40	3.00	26	1
1:A:42:ALA:HA	1:A:45:ILE:HG22	0.40	1.92	28	1
1:A:51:LYS:HG2	2:B:340:ILE:CD1	0.40	2.46	29	1
1:A:6:ILE:CG2	1:A:40:LEU:HD12	0.40	2.46	37	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:LYS:HD2	2:B:338:LEU:HD13	0.40	1.93	4	1
1:A:11:LEU:HB3	1:A:40:LEU:HD11	0.40	1.93	7	1
1:A:8:PRO:HA	2:B:315:LEU:HD23	0.40	1.91	17	1
1:A:14:LEU:CD2	1:A:44:PHE:HB2	0.40	2.46	18	1
1:A:9:SER:O	1:A:13:ASP:OD1	0.40	2.40	26	1
1:A:39:GLN:NE2	1:A:39:GLN:HA	0.40	2.32	27	1

## 6.3 Torsion angles [\(i\)](#)

### 6.3.1 Protein backbone [\(i\)](#)

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	52/59 (88%)	38±2 (73±3%)	8±2 (16±4%)	6±1 (12±2%)	1	7
2	B	46/59 (78%)	30±2 (65±4%)	11±2 (24±5%)	5±1 (11±3%)	1	8
All	All	3626/4366 (83%)	2505 (69%)	706 (19%)	415 (11%)	1	8

All 26 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	23	SER	37
1	A	24	PRO	37
1	A	20	SER	36
1	A	22	SER	36
1	A	38	PRO	32
2	B	311	ASP	29
2	B	353	SER	23
2	B	336	ARG	21
2	B	345	GLN	21
2	B	360	SER	17
2	B	354	LYS	16
2	B	351	VAL	16
1	A	5	SER	14
1	A	8	PRO	13
2	B	340	ILE	11

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Mol	Chain	Res	Type	Models (Total)
1	A	6	ILE	11
2	B	359	GLY	11
2	B	356	VAL	7
1	A	9	SER	6
2	B	355	LEU	6
2	B	352	LEU	5
2	B	346	GLY	4
1	A	55	ASN	2
1	A	34	LEU	2
2	B	326	LYS	1
1	A	53	VAL	1

### 6.3.2 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	47/53 (89%)	28±2 (59±5%)	19±2 (41±5%)	<b>0</b> <b>4</b>
2	B	40/49 (82%)	23±2 (57±6%)	17±2 (43±6%)	<b>0</b> <b>3</b>
All	All	3219/3774 (85%)	1871 (58%)	1348 (42%)	<b>0</b> <b>4</b>

All 75 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	23	SER	37
1	A	52	TYR	37
1	A	53	VAL	37
2	B	313	LYS	37
1	A	11	LEU	37
1	A	45	ILE	37
1	A	31	LEU	37
2	B	352	LEU	37
1	A	6	ILE	37
2	B	319	LEU	37
1	A	33	ILE	37
2	B	324	SER	36
1	A	15	LEU	35

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>Models (Total)</b>
2	B	322	PHE	35
2	B	342	LYS	34
1	A	20	SER	34
1	A	34	LEU	33
2	B	316	LEU	31
2	B	354	LYS	29
2	B	341	ASP	28
2	B	358	ARG	28
1	A	28	GLN	26
1	A	46	LYS	24
2	B	336	ARG	24
2	B	361	LEU	22
1	A	41	MET	22
1	A	48	ARG	21
2	B	326	LYS	19
2	B	331	LEU	19
2	B	329	THR	19
2	B	351	VAL	19
1	A	51	LYS	18
2	B	327	ASP	18
2	B	355	LEU	18
1	A	39	GLN	17
1	A	14	LEU	16
1	A	47	GLN	16
2	B	334	LEU	16
1	A	30	VAL	16
1	A	26	GLN	15
2	B	335	ASP	14
2	B	311	ASP	13
1	A	36	SER	13
2	B	353	SER	12
2	B	343	LEU	11
1	A	56	GLN	11
1	A	40	LEU	11
1	A	7	SER	11
1	A	12	GLN	10
2	B	318	GLN	10
2	B	321	SER	10
1	A	25	GLN	9
2	B	315	LEU	9
1	A	17	THR	9
2	B	328	GLU	8

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Mol	Chain	Res	Type	Models (Total)
2	B	330	GLU	8
1	A	19	LYS	8
2	B	360	SER	7
2	B	338	LEU	7
2	B	345	GLN	7
2	B	320	VAL	6
1	A	35	LYS	5
2	B	312	GLU	5
1	A	37	ASN	5
1	A	13	ASP	5
1	A	27	GLN	5
1	A	55	ASN	4
1	A	16	ARG	4
1	A	49	THR	4
2	B	356	VAL	3
2	B	344	VAL	3
1	A	9	SER	2
1	A	5	SER	2
1	A	44	PHE	1
1	A	18	LEU	1

### 6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 6.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

### 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

## 6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 7 Chemical shift validation

No chemical shift data were provided