



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 06:42 PM UTC

PDB ID : 2C52 / pdb_00002c52
BMRB ID : 6874
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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

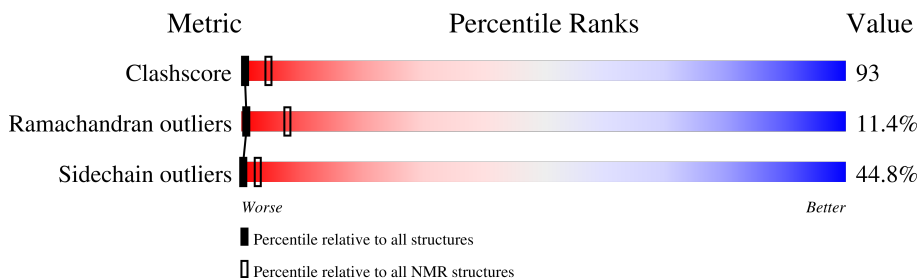
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment was not calculated.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

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

Mol	Chain	Length	Quality of chain
1	A	59	
2	B	59	

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)	0.77	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 5 clusters and 12 single-model clusters were found.

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

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.

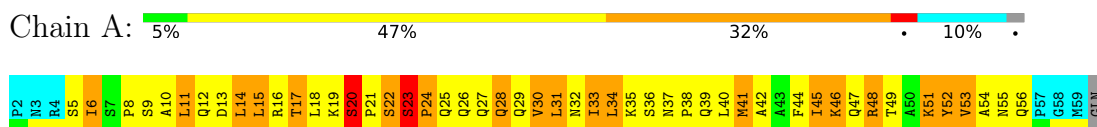
Mol	Chain	Residues	Atoms					Trace
			Total	C	H	N	O	
2	B	59	894	275	453	75	91	0

4 Residue-property plots

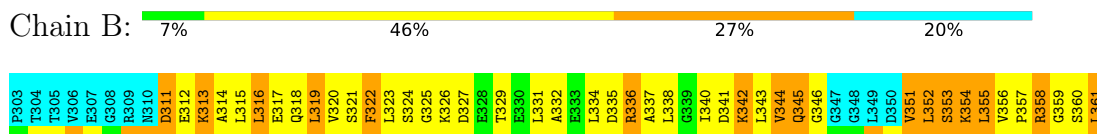
4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: CREB-BINDING PROTEIN



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

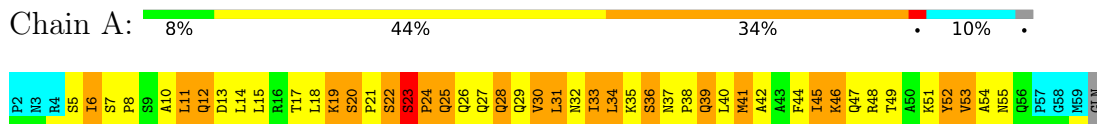


4.2 Scores per residue for each member of the ensemble

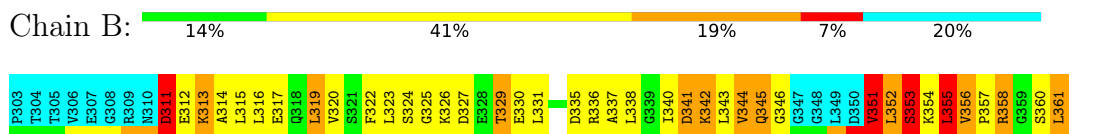
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: CREB-BINDING PROTEIN

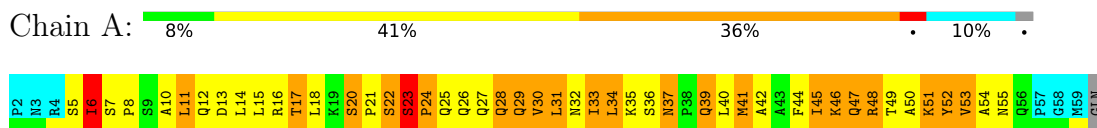


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

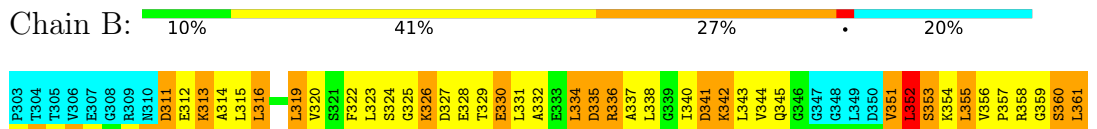


4.2.2 Score per residue for model 2 (medoid)

- Molecule 1: CREB-BINDING PROTEIN

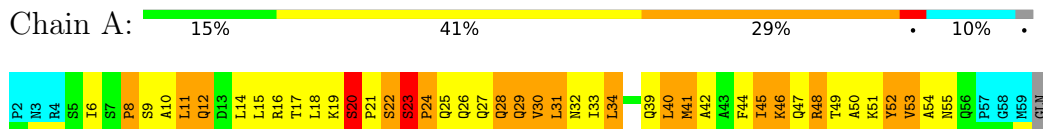


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

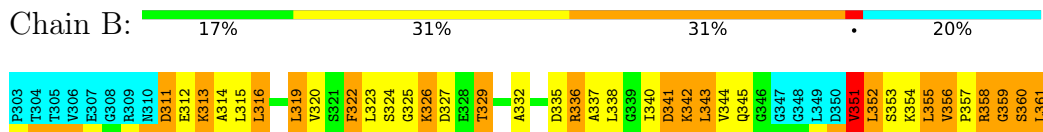


4.2.3 Score per residue for model 3

- Molecule 1: CREB-BINDING PROTEIN

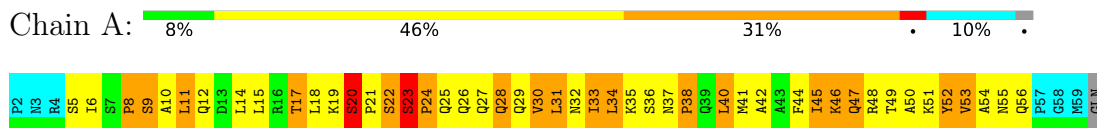


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

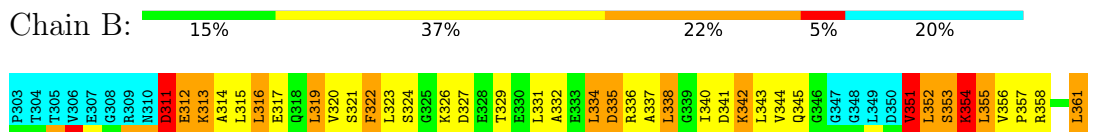


4.2.4 Score per residue for model 4

- Molecule 1: CREB-BINDING PROTEIN



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1



4.2.5 Score per residue for model 5

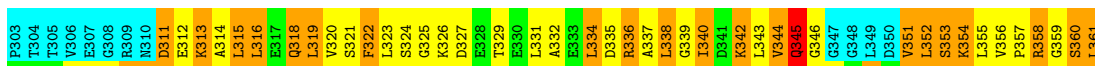
- Molecule 1: CREB-BINDING PROTEIN

Chain A: 12% 36% 39% 10%



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 8% 36% 34% 20%



4.2.6 Score per residue for model 6

- Molecule 1: CREB-BINDING PROTEIN

Chain A: 12% 32% 37% 7% 10%



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 14% 42% 19% 5% 20%



4.2.7 Score per residue for model 7

- Molecule 1: CREB-BINDING PROTEIN

Chain A: 15% 37% 32% 10%



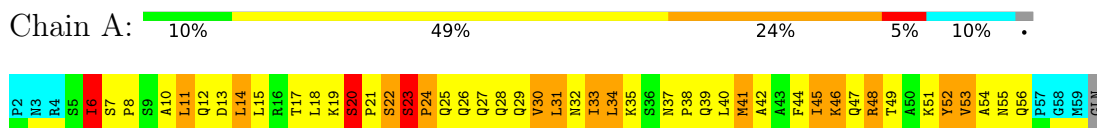
- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 19% 32% 27% 20%

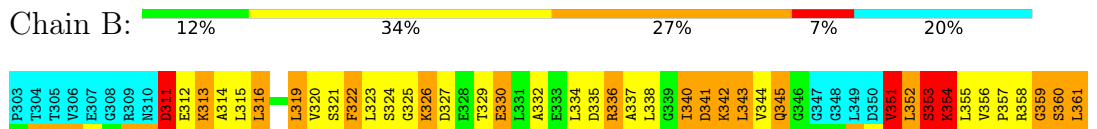


4.2.8 Score per residue for model 8

- Molecule 1: CREB-BINDING PROTEIN

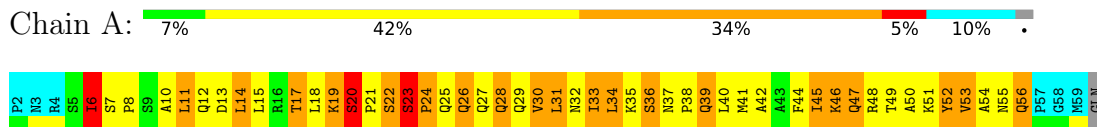


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

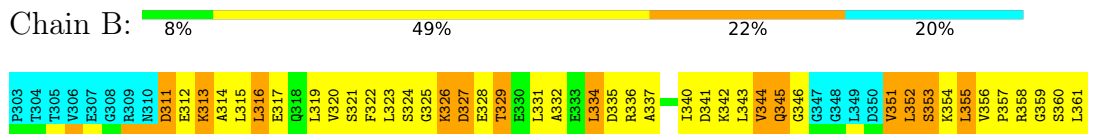


4.2.9 Score per residue for model 9

- Molecule 1: CREB-BINDING PROTEIN

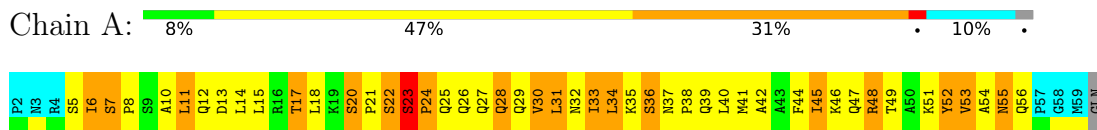


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

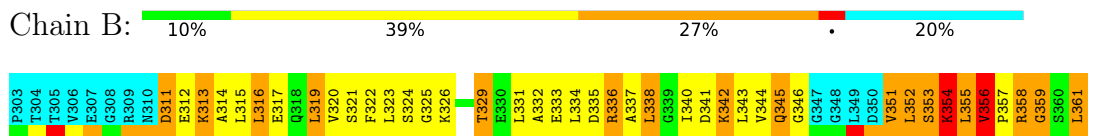


4.2.10 Score per residue for model 10

- Molecule 1: CREB-BINDING PROTEIN

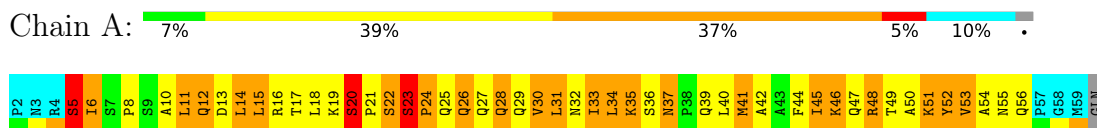


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

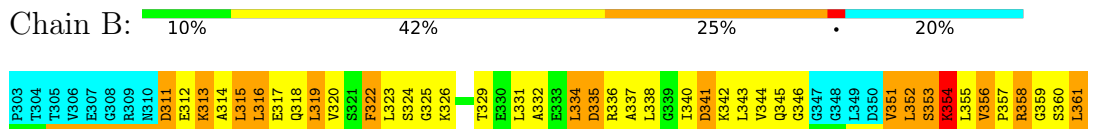


4.2.11 Score per residue for model 11

- Molecule 1: CREB-BINDING PROTEIN

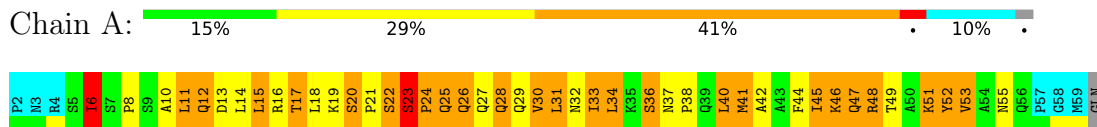


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

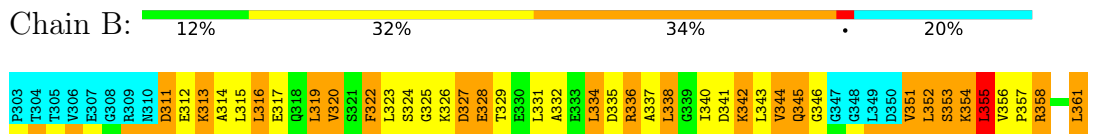


4.2.12 Score per residue for model 12

- Molecule 1: CREB-BINDING PROTEIN

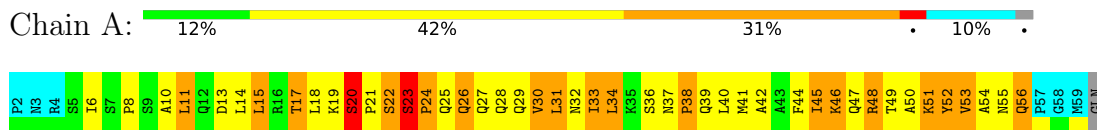


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

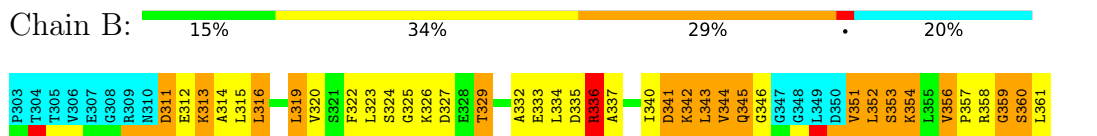


4.2.13 Score per residue for model 13

- Molecule 1: CREB-BINDING PROTEIN

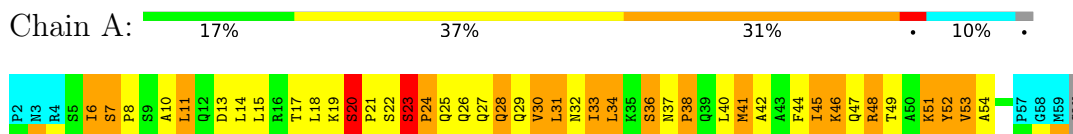


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

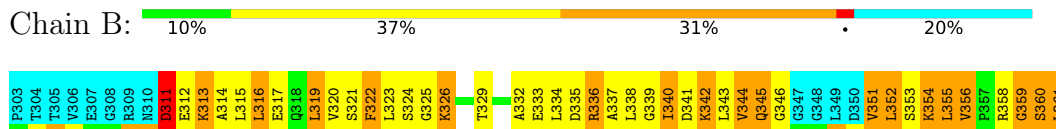


4.2.14 Score per residue for model 14

- Molecule 1: CREB-BINDING PROTEIN



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

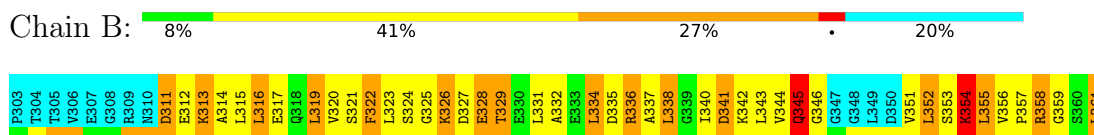


4.2.15 Score per residue for model 15

- Molecule 1: CREB-BINDING PROTEIN

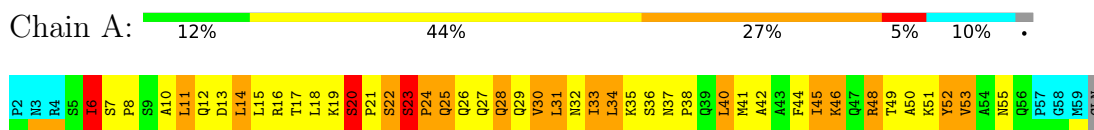


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

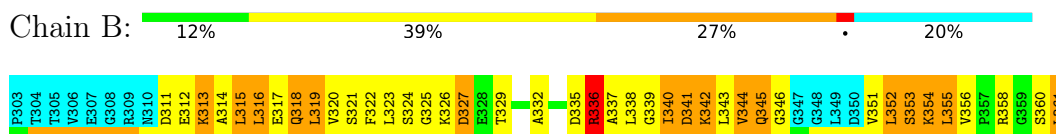


4.2.16 Score per residue for model 16

- Molecule 1: CREB-BINDING PROTEIN

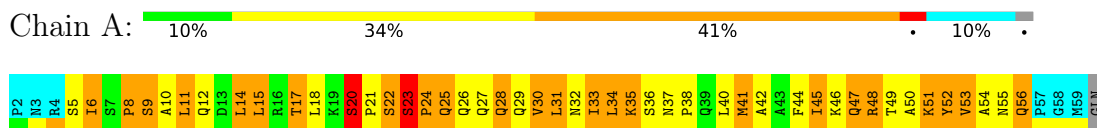


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

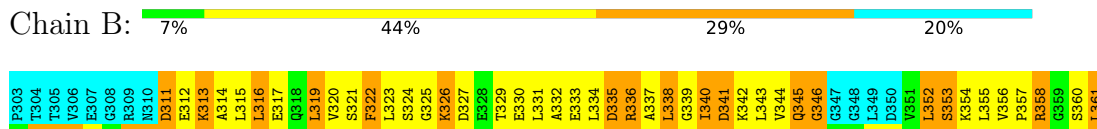


4.2.17 Score per residue for model 17

- Molecule 1: CREB-BINDING PROTEIN

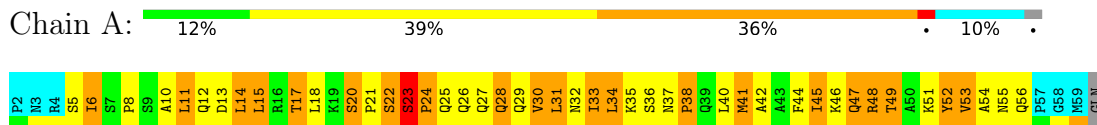


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

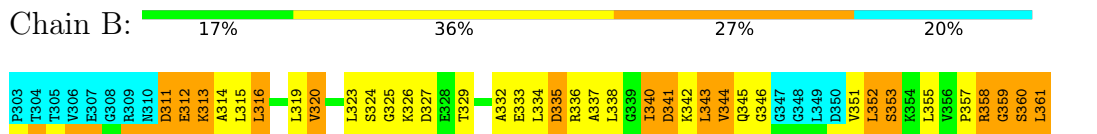


4.2.18 Score per residue for model 18

- Molecule 1: CREB-BINDING PROTEIN

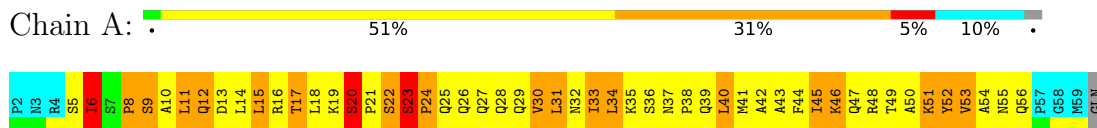


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

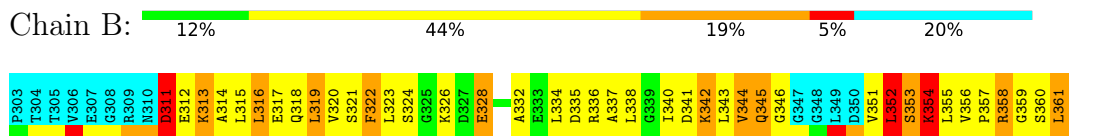


4.2.19 Score per residue for model 19

- Molecule 1: CREB-BINDING PROTEIN

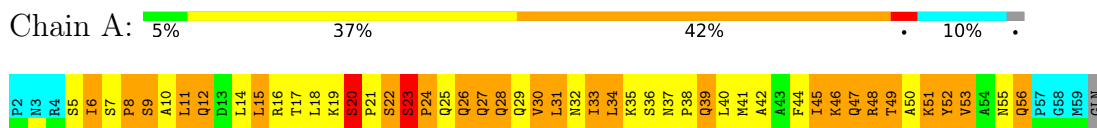


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

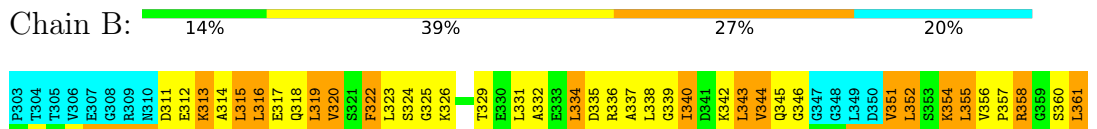


4.2.20 Score per residue for model 20

- Molecule 1: CREB-BINDING PROTEIN

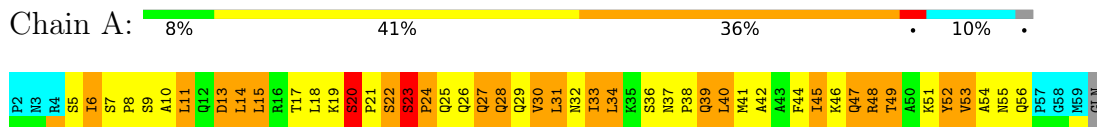


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

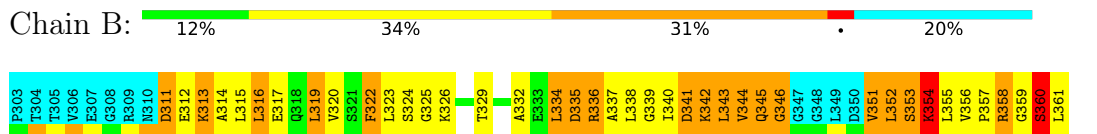


4.2.21 Score per residue for model 21

- Molecule 1: CREB-BINDING PROTEIN

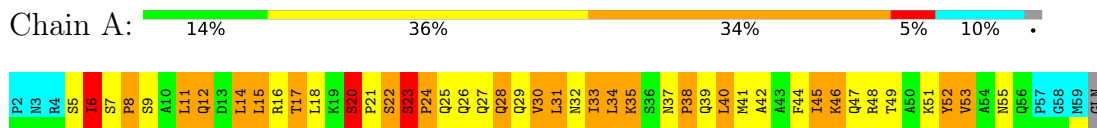


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

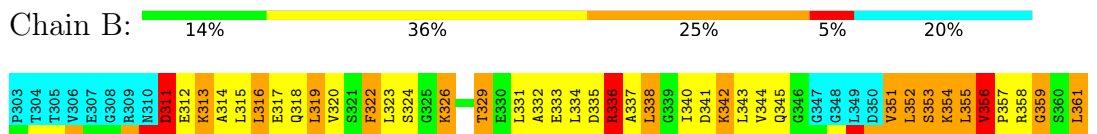


4.2.22 Score per residue for model 22

- Molecule 1: CREB-BINDING PROTEIN

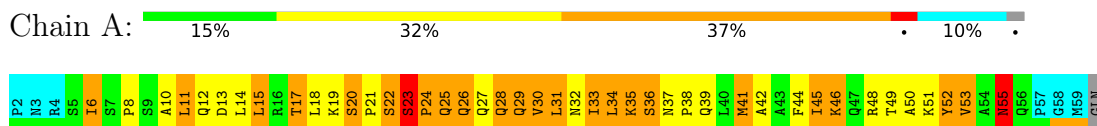


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

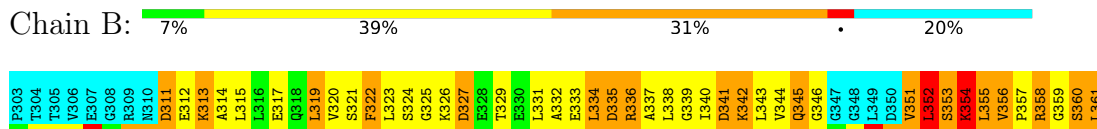


4.2.23 Score per residue for model 23

- Molecule 1: CREB-BINDING PROTEIN

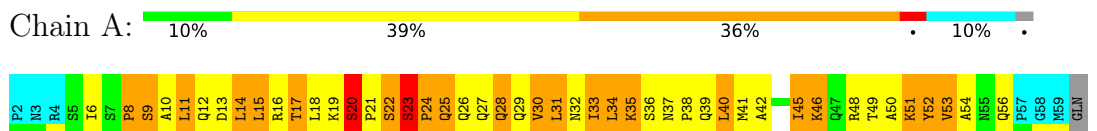


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

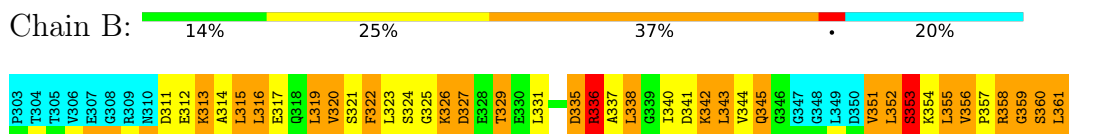


4.2.24 Score per residue for model 24

- Molecule 1: CREB-BINDING PROTEIN

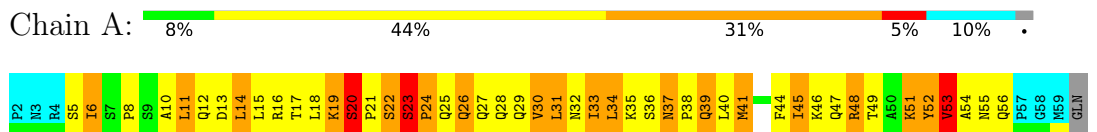


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

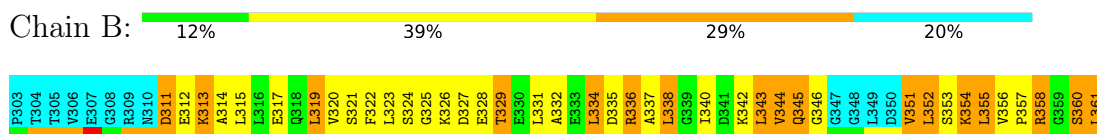


4.2.25 Score per residue for model 25

- Molecule 1: CREB-BINDING PROTEIN



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1



4.2.26 Score per residue for model 26

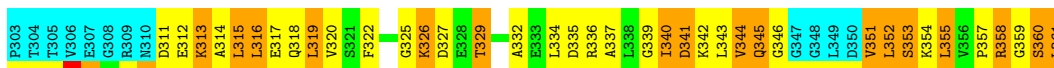
- Molecule 1: CREB-BINDING PROTEIN

Chain A: 7% 49% 31% 10%



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

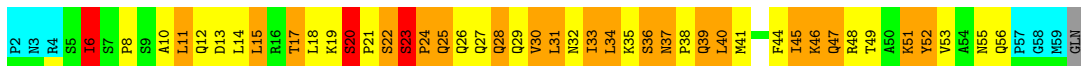
Chain B: 15% 36% 29% 20%



4.2.27 Score per residue for model 27

- Molecule 1: CREB-BINDING PROTEIN

Chain A: 14% 36% 34% 5% 10%



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 14% 32% 31% 20%



4.2.28 Score per residue for model 28

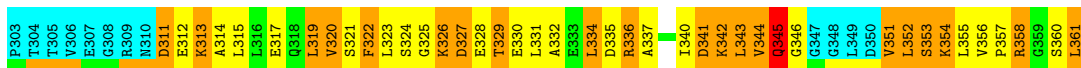
- Molecule 1: CREB-BINDING PROTEIN

Chain A: 8% 34% 44% 10%



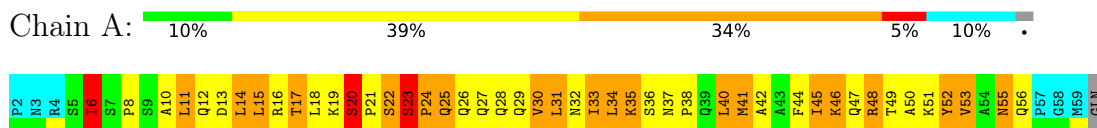
- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B: 10% 34% 34% 20%

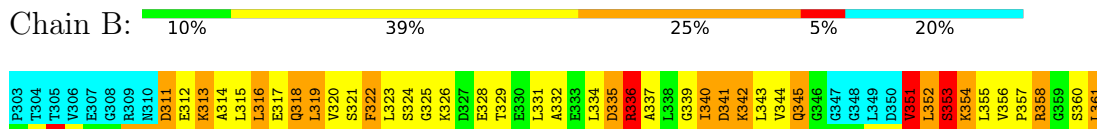


4.2.29 Score per residue for model 29

- Molecule 1: CREB-BINDING PROTEIN

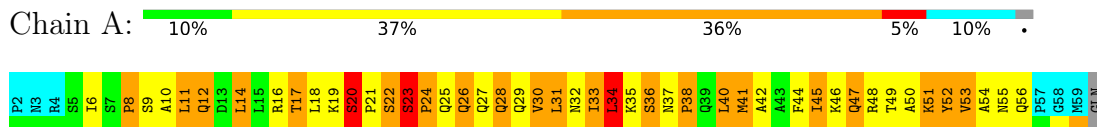


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

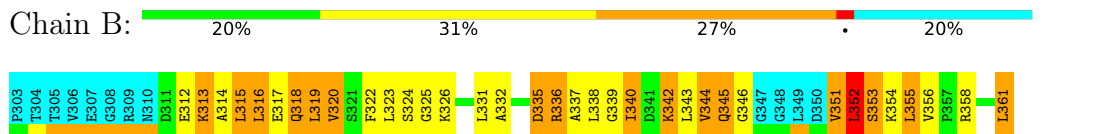


4.2.30 Score per residue for model 30

- Molecule 1: CREB-BINDING PROTEIN

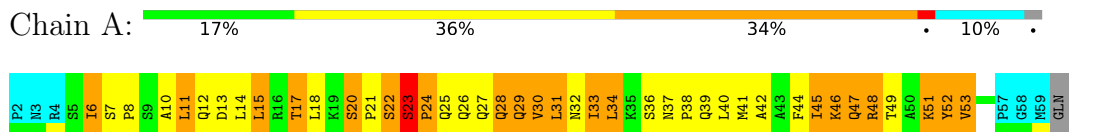


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

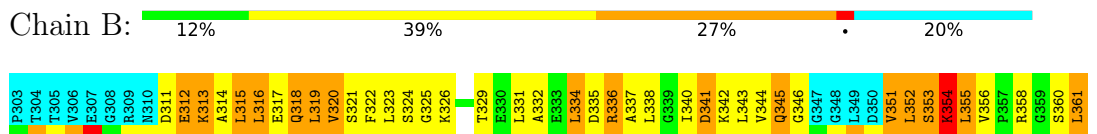


4.2.31 Score per residue for model 31

- Molecule 1: CREB-BINDING PROTEIN

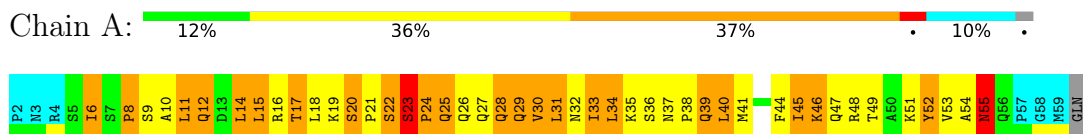


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

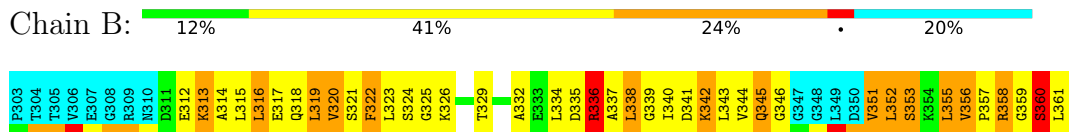


4.2.32 Score per residue for model 32

- Molecule 1: CREB-BINDING PROTEIN

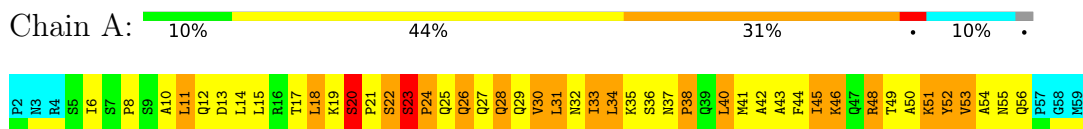


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

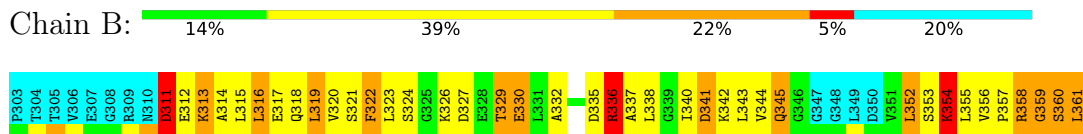


4.2.33 Score per residue for model 33

- Molecule 1: CREB-BINDING PROTEIN

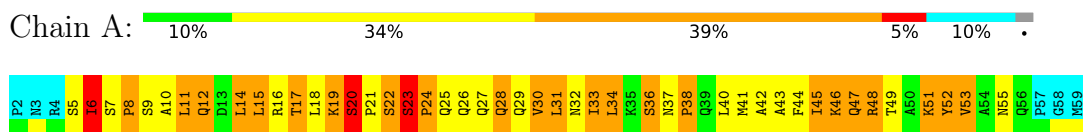


- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

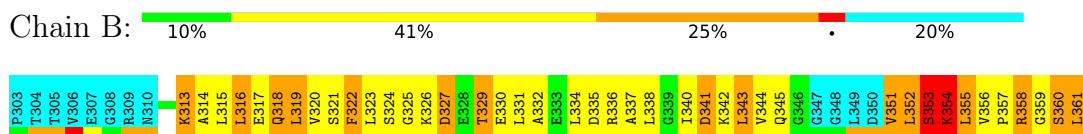


4.2.34 Score per residue for model 34

- 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

Chain A:  14% 37% 36% 10%



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B:  7% 37% 32% 20%



4.2.36 Score per residue for model 36

- Molecule 1: CREB-BINDING PROTEIN

Chain A:  8% 37% 41% 10%



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B:  14% 37% 24% 5% 20%



4.2.37 Score per residue for model 37

- Molecule 1: CREB-BINDING PROTEIN

Chain A:  37% 44% 10%



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1

Chain B:  15% 31% 32% 20%



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.

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.62±0.01	0±0/411 (0.0± 0.0%)	1.11±0.01	0±0/558 (0.0± 0.0%)
2	B	0.66±0.01	0±0/358 (0.0± 0.0%)	1.07±0.02	0±0/480 (0.0± 0.0%)
All	All	0.64	0/28453 (0.0%)	1.09	1/38406 (0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	37	ASN	O-C-N	5.29	124.44	121.27	25	1

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	405	416	429	91±8
2	B	357	373	378	71±10
All	All	28194	29193	29859	5395

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 93.

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:11:LEU:C	1:A:11:LEU:HD22	1.06	1.74	19	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: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:HD22	1:A:15:LEU:O	0.97	1.59	11	19
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: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
2:B:342:LYS:HZ2	2:B:342:LYS:N	0.94	1.60	21	2
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:HD22	2:B:319:LEU:O	0.93	1.64	2	16
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
2:B:342:LYS:HZ2	2:B:342:LYS:H	0.91	0.93	3	2
2:B:343:LEU:C	2:B:343:LEU:HD23	0.91	1.90	28	1
1:A:48:ARG:CD	2:B:343:LEU:HD13	0.90	1.96	27	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
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:316:LEU:O	2:B:320:VAL:HG13	0.86	1.69	18	10
1:A:47:GLN:CD	2:B:320:VAL:HG13	0.85	1.96	8	5
2:B:319:LEU:C	2:B:319:LEU:HD13	0.85	1.97	11	9
2:B:319:LEU:C	2:B:319:LEU:HD22	0.84	1.97	10	7
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
1:A:30:VAL:C	1:A:34:LEU:HD22	0.83	1.98	15	15
1:A:8:PRO:O	1:A:11:LEU:HD21	0.82	1.73	9	15

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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	15
2:B:319:LEU:HD22	2:B:319:LEU:C	0.82	2.00	35	3
1:A:14:LEU:HD22	2:B:319:LEU:HG	0.82	1.49	7	2
1:A:47:GLN:CD	2:B:320:VAL:HG23	0.82	1.99	12	1
2:B:338:LEU:HD22	2:B:341:ASP:OD1	0.82	1.75	16	3
2:B:343:LEU:HD23	2:B:344:VAL:N	0.82	1.89	28	1
2:B:313:LYS:HE2	2:B:314:ALA:HB2	0.81	1.52	37	22
1:A:40:LEU:C	1:A:40:LEU:HD13	0.81	2.01	4	7
1:A:11:LEU:HD13	1:A:12:GLN:N	0.81	1.90	28	9
1:A:52:TYR:CG	2:B:352:LEU:HD22	0.81	2.11	1	7
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
2:B:343:LEU:C	2:B:343:LEU:HD12	0.81	2.00	13	2
1:A:11:LEU:C	1:A:11:LEU:CD2	0.81	2.52	19	9
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
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:14:LEU:HD21	1:A:44:PHE:CD2	0.80	2.11	36	8
1:A:52:TYR:HB3	2:B:352:LEU:HD12	0.80	1.53	28	6
1:A:10:ALA:HB1	1:A:37:ASN:OD1	0.80	1.76	24	3
1:A:40:LEU:C	1:A:40:LEU:HD23	0.80	2.02	30	1
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
2:B:334:LEU:C	2:B:334:LEU:HD22	0.79	2.01	12	2
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:HD12	2:B:343:LEU:O	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:C	2:B:319:LEU:HD12	0.78	2.04	19	6
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:340:ILE:HD12	2:B:340:ILE:C	0.77	2.04	8	29

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:LEU:H	1:A:11:LEU:HD13	0.77	1.39	18	15
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:361:LEU:HD22	2:B:361:LEU:N	0.77	1.95	31	29
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: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
2:B:352:LEU:HD22	2:B:352:LEU:N	0.76	1.95	10	11
2:B:358:ARG:HB3	2:B:361:LEU:HD21	0.76	1.57	11	26
2:B:319:LEU:O	2:B:319:LEU:HD12	0.76	1.81	21	4
1:A:14:LEU:C	1:A:14:LEU:HD12	0.76	2.05	34	1
1:A:15:LEU:HD22	1:A:15:LEU:C	0.76	2.06	18	17
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
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: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
1:A:11:LEU:HD22	1:A:11:LEU:O	0.74	1.81	19	5
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: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:CD1	1:A:52:TYR:N	0.73	2.55	13	37
2:B:355:LEU:O	2:B:356:VAL:C	0.73	2.31	10	30
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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	3
1:A:11:LEU:HG	2:B:315:LEU:HD12	0.72	1.60	10	7
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:15:LEU:C	1:A:15:LEU:HD13	0.72	2.10	29	4
2:B:334:LEU:HD22	2:B:335:ASP:N	0.72	1.98	12	1
2:B:338:LEU:HD12	2:B:341:ASP:CG	0.71	2.10	8	3
1:A:8:PRO:HA	1:A:11:LEU:HD21	0.71	1.62	14	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	31
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: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:52:TYR:CG	2:B:352:LEU:HD12	0.71	2.20	35	2
1:A:18:LEU:HD11	1:A:44:PHE:CE2	0.71	2.19	22	11
1:A:20:SER:CB	1:A:21:PRO:CD	0.71	2.68	36	37
1:A:6:ILE:HG21	1:A:40:LEU:CD2	0.71	2.15	22	9
2:B:351:VAL:O	2:B:352:LEU:C	0.71	2.33	30	7
1:A:52:TYR:CD1	2:B:352:LEU:CD2	0.71	2.74	23	4
1:A:52:TYR:CZ	2:B:344:VAL:HG13	0.70	2.20	16	10
1:A:17:THR:HG23	1:A:29:GLN:HB2	0.70	1.64	26	37
1:A:52:TYR:CD2	2:B:352:LEU:CD2	0.70	2.75	29	3
2:B:340:ILE:HD12	2:B:340:ILE:O	0.70	1.87	19	26
2:B:319:LEU:HD12	2:B:319:LEU:C	0.70	2.11	24	2
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:352:LEU:HD13	2:B:352:LEU:H	0.69	1.46	32	16
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
2:B:332:ALA:HB3	2:B:342:LYS:HZ1	0.69	1.47	6	2
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
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: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: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:15:LEU:HD13	2:B:318:GLN:CD	0.68	2.14	31	1
1:A:18:LEU:HD11	1:A:44:PHE:CZ	0.68	2.24	27	4
2:B:311:ASP:C	2:B:315:LEU:HD23	0.68	2.14	37	19
2:B:313:LYS:CE	2:B:314:ALA:HB2	0.67	2.19	10	22
2:B:322:PHE:CZ	2:B:326:LYS:NZ	0.67	2.62	35	2
2:B:319:LEU:HD13	2:B:319:LEU:C	0.67	2.14	1	3
1:A:8:PRO:O	1:A:9:SER:C	0.67	2.37	28	13
1:A:10:ALA:HB2	1:A:37:ASN:CG	0.67	2.14	18	7
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
1:A:47:GLN:CG	2:B:320:VAL:HG23	0.67	2.20	31	3
1:A:18:LEU:HD22	2:B:323:LEU:CD2	0.67	2.19	12	6
2:B:337:ALA:C	2:B:338:LEU:HD23	0.67	2.15	15	1
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
2:B:352:LEU:HD22	2:B:352:LEU:H	0.67	1.49	10	12
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
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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
2:B:361:LEU:HD12	2:B:361:LEU:N	0.65	2.06	10	3
1:A:14:LEU:CD2	1:A:40:LEU:HD11	0.65	2.22	24	2
2:B:351:VAL:O	2:B:351:VAL:HG23	0.65	1.91	19	1
2:B:340:ILE:HD13	2:B:343:LEU:HD22	0.65	1.67	28	1
2:B:356:VAL:CG2	2:B:356:VAL:O	0.65	2.45	22	2
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:8:PRO:C	1:A:11:LEU:HD21	0.65	2.17	36	12
1:A:14:LEU:C	1:A:14:LEU:HD23	0.64	2.17	20	4
1:A:14:LEU:HD12	2:B:319:LEU:CD1	0.64	2.22	37	1
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
1:A:37:ASN:CG	1:A:40:LEU:HD12	0.64	2.18	13	3
1:A:52:TYR:CB	2:B:352:LEU:HD12	0.64	2.23	15	4
2:B:312:GLU:O	2:B:316:LEU:HD23	0.64	1.93	10	15
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
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
2:B:323:LEU:CD2	2:B:326:LYS:HZ1	0.63	2.06	37	3
1:A:52:TYR:CE1	2:B:344:VAL:CG1	0.63	2.78	30	11
1:A:11:LEU:HD22	1:A:12:GLN:N	0.63	2.07	11	14
2:B:352:LEU:N	2:B:352:LEU:CD1	0.63	2.62	30	7
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
1:A:18:LEU:HD11	2:B:319:LEU:HD23	0.63	1.69	23	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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:344:VAL:CG1	2:B:352:LEU:HD21	0.63	2.24	5	1
2:B:323:LEU:HD23	2:B:326:LYS:HZ1	0.63	1.52	7	2
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
2:B:340:ILE:CB	2:B:343:LEU:HD13	0.63	2.24	22	1
2:B:322:PHE:C	2:B:322:PHE:CD1	0.63	2.76	6	14
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:6:ILE:HD11	1:A:37:ASN:CB	0.62	2.23	11	3
2:B:352:LEU:CD2	2:B:352:LEU:C	0.62	2.73	37	1
2:B:323:LEU:HD23	2:B:326:LYS:CE	0.62	2.25	2	16
1:A:55:ASN:OD1	1:A:55:ASN:C	0.62	2.43	8	3
1:A:17:THR:HG23	1:A:29:GLN:HB3	0.62	1.70	20	19
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
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
1:A:25:GLN:O	1:A:28:GLN:N	0.61	2.33	31	37
2:B:361:LEU:N	2:B:361:LEU:CD2	0.61	2.62	20	27
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	19	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
2:B:319:LEU:C	2:B:319:LEU:CD1	0.61	2.72	11	9
1:A:11:LEU:HD22	1:A:11:LEU:N	0.61	2.10	26	11
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:HD12	2:B:338:LEU:N	0.61	2.11	5	2
1:A:51:LYS:CG	2:B:338:LEU:HD23	0.61	2.25	30	3
1:A:8:PRO:C	1:A:11:LEU:HD23	0.61	2.20	20	1
1:A:40:LEU:C	1:A:40:LEU:CD1	0.61	2.74	4	4
1:A:6:ILE:HG21	1:A:40:LEU:HD22	0.60	1.71	21	3
2:B:335:ASP:HB2	2:B:342:LYS:HZ2	0.60	1.56	15	1
1:A:8:PRO:O	1:A:11:LEU:CD1	0.60	2.50	11	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:332:ALA:HB1	2:B:335:ASP:CG	0.60	2.21	11	1
2:B:334:LEU:C	2:B:334:LEU:CD2	0.60	2.74	12	1
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:N	2:B:342:LYS:HD3	0.60	2.12	24	4
1:A:18:LEU:CD1	2:B:343:LEU:HD21	0.60	2.26	25	1
1:A:6:ILE:HD12	1:A:40:LEU:HD23	0.60	1.74	8	11
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:HD2	2:B:342:LYS:N	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
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:25:GLN:O	1:A:26:GLN:C	0.59	2.45	31	37
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
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:360:SER:C	2:B:361:LEU:HD22	0.59	2.23	35	17
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
1:A:10:ALA:CB	1:A:37:ASN:CG	0.59	2.76	10	15
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:41:MET:O	1:A:45:ILE:N	0.59	2.32	14	27
2:B:352:LEU:N	2:B:352:LEU:HD13	0.59	2.12	11	4
1:A:14:LEU:HG	2:B:319:LEU:HD13	0.59	1.73	17	1
2:B:332:ALA:HB2	2:B:342:LYS:HZ1	0.59	1.56	22	1
1:A:22:SER:CB	1:A:26:GLN:NE2	0.59	2.66	29	1
1:A:27:GLN:CD	1:A:27:GLN:C	0.59	2.70	37	1
1:A:6:ILE:HD11	1:A:38:PRO:HD2	0.59	1.75	7	1
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:340:ILE:CB	2:B:343:LEU:HD21	0.58	2.27	27	1
1:A:40:LEU:C	1:A:40:LEU:CD2	0.58	2.76	30	1
2:B:318:GLN:HG3	2:B:319:LEU:N	0.58	2.12	29	1
2:B:352:LEU:C	2:B:352:LEU:HD22	0.58	2.23	37	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:21:PRO:O	1:A:22:SER:CB	0.58	2.52	22	37
1:A:30:VAL:CG2	1:A:31:LEU:N	0.58	2.67	35	37
1:A:51:LYS:CE	2:B:338:LEU:HD22	0.58	2.28	35	1
1:A:51:LYS:HB2	2:B:340:ILE:HD11	0.58	1.76	5	3
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:344:VAL:O	2:B:345:GLN:C	0.58	2.47	10	34
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
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:311:ASP:C	2:B:315:LEU:HD13	0.57	2.24	15	6
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: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: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
2:B:340:ILE:C	2:B:340:ILE:CD1	0.57	2.78	8	23
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
2:B:316:LEU:C	2:B:320:VAL:HG13	0.57	2.25	37	6
1:A:51:LYS:HZ3	2:B:352:LEU:HD11	0.57	1.59	27	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:LEU:HD22	1:A:41:MET:HA	0.57	1.75	35	10
1:A:44:PHE:CE1	1:A:48:ARG:HD3	0.57	2.34	36	6
2:B:338:LEU:HD22	2:B:338:LEU:N	0.57	2.14	24	1
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
1:A:14:LEU:C	1:A:14:LEU:HD13	0.56	2.24	36	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
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
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
2:B:323:LEU:CD2	2:B:326:LYS:NZ	0.56	2.68	3	5
2:B:352:LEU:O	2:B:353:SER:C	0.56	2.47	14	9
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
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: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:14:LEU:HD23	1:A:44:PHE:HD2	0.55	1.60	29	1
1:A:51:LYS:CB	2:B:340:ILE:HD11	0.55	2.31	6	8
1:A:15:LEU:C	1:A:15:LEU:CD2	0.55	2.80	18	10
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:317:GLU:HA	2:B:320:VAL:HG12	0.55	1.79	28	5
2:B:338:LEU:HD21	2:B:355:LEU:HD13	0.55	1.78	1	1
1:A:44:PHE:C	1:A:44:PHE:CD1	0.55	2.85	37	17
2:B:352:LEU:HD22	2:B:353:SER:N	0.55	2.16	9	1
1:A:14:LEU:HD23	2:B:319:LEU:HD21	0.55	1.77	32	2
1:A:11:LEU:HG	2:B:315:LEU:HD23	0.55	1.78	15	1
2:B:311:ASP:O	2:B:312:GLU:C	0.55	2.50	37	28

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:335:ASP:CG	2:B:342:LYS:NZ	0.55	2.65	29	2
1:A:12:GLN:O	1:A:16:ARG:CB	0.55	2.55	32	11
1:A:40:LEU:CD1	1:A:40:LEU:C	0.55	2.80	3	2
1:A:44:PHE:CZ	2:B:343:LEU:CD2	0.55	2.90	17	1
2:B:360:SER:C	2:B:361:LEU:HD12	0.55	2.27	26	1
2:B:338:LEU:HD13	2:B:341:ASP:CG	0.55	2.27	3	1
2:B:352:LEU:N	2:B:352:LEU:CD2	0.55	2.67	10	3
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
1:A:31:LEU:O	1:A:35:LYS:HB3	0.54	2.02	17	9
2:B:318:GLN:CD	2:B:318:GLN:C	0.54	2.75	20	2
2:B:343:LEU:C	2:B:343:LEU:CD1	0.54	2.74	13	2
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:20:SER:HB2	1:A:21:PRO:CD	0.54	2.31	36	16
2:B:356:VAL:O	2:B:356:VAL:CG2	0.54	2.55	10	1
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
2:B:319:LEU:HD12	2:B:319:LEU:O	0.54	2.01	6	3
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
2:B:351:VAL:C	2:B:352:LEU:HD22	0.54	2.28	30	1
1:A:20:SER:OG	1:A:21:PRO:HD2	0.54	2.01	23	30
2:B:326:LYS:HZ1	2:B:343:LEU:HD21	0.54	1.62	34	1
1:A:14:LEU:HD22	1:A:33:ILE:HD12	0.54	1.79	37	1
2:B:319:LEU:C	2:B:319:LEU:CD2	0.54	2.75	35	7
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
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
1:A:14:LEU:HD21	2:B:319:LEU:HG	0.54	1.79	16	2
2:B:343:LEU:C	2:B:343:LEU:CD2	0.54	2.65	28	1
1:A:15:LEU:CD2	2:B:322:PHE:CD2	0.54	2.91	29	1
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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:26:GLN:CD	1:A:30:VAL:CG1	0.53	2.82	28	3
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
2:B:332:ALA:CB	2:B:342:LYS:HZ1	0.53	2.15	22	2
1:A:11:LEU:N	1:A:40:LEU:HD21	0.53	2.18	19	1
1:A:14:LEU:HD21	1:A:44:PHE:HD2	0.53	1.63	3	5
2:B:334:LEU:CD2	2:B:334:LEU:C	0.53	2.82	2	2
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
2:B:338:LEU:HD23	2:B:341:ASP:CG	0.53	2.29	14	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: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
1:A:44:PHE:CE1	1:A:48:ARG:HG2	0.53	2.39	37	4
1:A:51:LYS:HZ2	2:B:338:LEU:CD1	0.53	2.14	15	1
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:36:SER:C	1:A:37:ASN:ND2	0.52	2.67	23	17
2:B:340:ILE:O	2:B:340:ILE:CD1	0.52	2.57	32	18
2:B:352:LEU:N	2:B:352:LEU:HD23	0.52	2.19	23	3
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
1:A:52:TYR:C	1:A:54:ALA:N	0.52	2.66	25	21
1:A:8:PRO:O	1:A:11:LEU:CD2	0.52	2.58	37	16

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:45:ILE:C	1:A:45:ILE:CD1	0.52	2.82	28	8
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
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
1:A:48:ARG:NH2	2:B:326:LYS:HZ2	0.52	2.02	37	1
2:B:335:ASP:O	2:B:336:ARG:C	0.52	2.52	24	25
1:A:30:VAL:O	1:A:34:LEU:HD13	0.52	2.05	13	9
2:B:328:GLU:C	2:B:342:LYS:HZ1	0.52	2.12	19	1
1:A:48:ARG:O	1:A:52:TYR:CE1	0.52	2.63	35	7
1:A:14:LEU:C	1:A:14:LEU:CD1	0.52	2.83	36	4
2:B:344:VAL:O	2:B:346:GLY:N	0.52	2.43	21	21
1:A:8:PRO:C	1:A:10:ALA:N	0.52	2.67	4	4
1:A:29:GLN:NE2	1:A:29:GLN:N	0.52	2.58	6	5
1:A:15:LEU:HD21	2:B:322:PHE:CD2	0.52	2.40	7	2
2:B:343:LEU:HD12	2:B:343:LEU:C	0.52	2.28	23	1
2:B:331:LEU:C	2:B:331:LEU:HD23	0.52	2.30	34	1
1:A:33:ILE:O	1:A:37:ASN:CG	0.52	2.53	11	2
1:A:29:GLN:N	1:A:29:GLN:CD	0.52	2.67	32	6
2:B:316:LEU:C	2:B:320:VAL:HG12	0.52	2.30	31	3
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
2:B:335:ASP:C	2:B:335:ASP:OD1	0.52	2.53	32	2
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
1:A:33:ILE:C	1:A:37:ASN:OD1	0.52	2.53	30	1
1:A:27:GLN:O	1:A:31:LEU:HD22	0.51	2.05	36	11
2:B:319:LEU:CD1	2:B:320:VAL:N	0.51	2.66	1	2
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
2:B:322:PHE:CD1	2:B:322:PHE:C	0.51	2.87	23	3
1:A:6:ILE:HG23	1:A:7:SER:N	0.51	2.19	8	5
1:A:52:TYR:CD2	2:B:352:LEU:CD1	0.51	2.93	14	3
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	5
2:B:329:THR:CA	2:B:342:LYS:HZ1	0.51	2.17	28	1
1:A:15:LEU:C	1:A:15:LEU:CD1	0.51	2.83	29	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:326:LYS:HZ2	2:B:343:LEU:HD11	0.51	1.66	33	1
1:A:48:ARG:NH2	2:B:326:LYS:NZ	0.51	2.59	37	1
2:B:336:ARG:O	2:B:337:ALA:C	0.51	2.52	13	29
1:A:55:ASN:OD1	1:A:56:GLN:N	0.51	2.44	17	3
1:A:6:ILE:CG1	1:A:39:GLN:HB2	0.51	2.36	6	6
1:A:10:ALA:CB	1:A:37:ASN:OD1	0.51	2.59	1	8
1:A:33:ILE:C	1:A:35:LYS:N	0.51	2.67	6	19
2:B:355:LEU:O	2:B:357:PRO:N	0.51	2.43	1	16
1:A:47:GLN:HB3	2:B:323:LEU:HD13	0.51	1.81	6	2
2:B:343:LEU:N	2:B:343:LEU:CD1	0.51	2.74	34	1
1:A:27:GLN:HG3	1:A:28:GLN:N	0.51	2.21	37	5
2:B:351:VAL:C	2:B:353:SER:N	0.51	2.68	27	5
1:A:18:LEU:HD12	2:B:323:LEU:HD21	0.51	1.82	8	2
1:A:48:ARG:CZ	2:B:343:LEU:CB	0.51	2.89	20	1
2:B:311:ASP:CG	2:B:312:GLU:N	0.51	2.69	3	4
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:6:ILE:HG13	1:A:39:GLN:CB	0.51	2.35	22	12
1:A:26:GLN:O	1:A:29:GLN:N	0.51	2.44	21	36
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
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:351:VAL:C	2:B:352:LEU:HD13	0.51	2.31	10	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
2:B:315:LEU:CD1	2:B:315:LEU:N	0.50	2.74	26	4
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:335:ASP:C	2:B:337:ALA:N	0.50	2.68	22	36
2:B:313:LYS:O	2:B:317:GLU:HG2	0.50	2.06	30	5
2:B:352:LEU:N	2:B:352:LEU:HD22	0.50	2.19	14	2
2:B:339:GLY:O	2:B:340:ILE:CG2	0.50	2.60	29	5
2:B:360:SER:OG	2:B:360:SER:O	0.50	2.30	5	2
2:B:351:VAL:CG2	2:B:352:LEU:N	0.50	2.74	14	6

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:14:LEU:C	1:A:14:LEU:CD2	0.50	2.85	20	1
1:A:6:ILE:CG2	1:A:40:LEU:HD21	0.50	2.36	22	1
2:B:345:GLN:CD	2:B:358:ARG:CG	0.50	2.84	25	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
2:B:311:ASP:O	2:B:315:LEU:HD13	0.50	2.07	4	6
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:329:THR:HA	2:B:342:LYS:HZ1	0.50	1.67	28	1
2:B:345:GLN:HG3	2:B:358:ARG:CG	0.50	2.36	27	8
1:A:33:ILE:O	1:A:34:LEU:C	0.50	2.55	24	16
2:B:353:SER:O	2:B:354:LYS:C	0.50	2.55	8	12
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
2:B:356:VAL:HG21	2:B:359:GLY:C	0.50	2.31	10	1
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	2
1:A:6:ILE:HD13	1:A:7:SER:H	0.50	1.65	20	3
2:B:341:ASP:OD1	2:B:341:ASP:C	0.50	2.54	28	6
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
2:B:338:LEU:HD13	2:B:341:ASP:HB2	0.50	1.82	18	1
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	6
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
1:A:42:ALA:O	1:A:46:LYS:HG2	0.49	2.07	17	19
2:B:331:LEU:HD12	2:B:331:LEU:C	0.49	2.32	29	1
1:A:28:GLN:O	1:A:32:ASN:CB	0.49	2.60	35	23
2:B:360:SER:C	2:B:361:LEU:CD2	0.49	2.85	7	2
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
2:B:341:ASP:C	2:B:341:ASP:OD2	0.49	2.56	18	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:10:ALA:CB	1:A:37:ASN:ND2	0.49	2.74	30	3
1:A:22:SER:OG	1:A:22:SER:O	0.49	2.30	29	4
1:A:52:TYR:O	1:A:55:ASN:N	0.49	2.45	29	16
1:A:11:LEU:CD1	1:A:12:GLN:N	0.49	2.73	28	1
1:A:45:ILE:O	1:A:45:ILE:CD1	0.49	2.60	2	7
2:B:323:LEU:HD23	2:B:326:LYS:HE2	0.49	1.83	4	3
2:B:344:VAL:C	2:B:346:GLY:N	0.49	2.70	21	18
2:B:361:LEU:N	2:B:361:LEU:CD1	0.49	2.76	10	3
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:318:GLN:C	2:B:318:GLN:NE2	0.49	2.71	11	1
1:A:52:TYR:C	1:A:56:GLN:CG	0.49	2.86	25	1
1:A:23:SER:CB	1:A:24:PRO:CD	0.49	2.90	31	37
2:B:340:ILE:C	2:B:342:LYS:N	0.49	2.69	24	14
1:A:9:SER:C	1:A:11:LEU:N	0.49	2.70	3	5
2:B:351:VAL:O	2:B:351:VAL:CG2	0.49	2.61	19	1
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: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
2:B:353:SER:O	2:B:355:LEU:N	0.48	2.46	22	2
1:A:34:LEU:HD13	1:A:41:MET:HE3	0.48	1.85	24	1
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:11:LEU:CA	1:A:40:LEU:CD2	0.48	2.92	19	1
1:A:51:LYS:NZ	2:B:352:LEU:HD11	0.48	2.22	27	1
1:A:27:GLN:O	1:A:31:LEU:CD2	0.48	2.61	1	10
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
1:A:8:PRO:HA	2:B:315:LEU:CD2	0.48	2.38	3	2
1:A:40:LEU:HD13	1:A:40:LEU:O	0.48	2.08	34	3
1:A:52:TYR:O	1:A:54:ALA:N	0.48	2.46	25	7
1:A:38:PRO:O	1:A:41:MET:N	0.48	2.46	28	5
1:A:51:LYS:NZ	2:B:338:LEU:CD1	0.48	2.76	27	2
2:B:315:LEU:O	2:B:318:GLN:NE2	0.48	2.47	30	1
2:B:318:GLN:OE1	2:B:318:GLN:N	0.48	2.46	34	1
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:22:SER:O	1:A:22:SER:OG	0.48	2.31	19	3
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
2:B:320:VAL:CG2	2:B:321:SER:N	0.48	2.76	33	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:14:LEU:CD2	2:B:319:LEU:CD1	0.47	2.90	4	1
1:A:48:ARG:NE	1:A:48:ARG:HA	0.47	2.24	21	5
1:A:45:ILE:CD1	1:A:45:ILE:O	0.47	2.62	28	1
1:A:47:GLN:N	1:A:47:GLN:OE1	0.47	2.47	34	1
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
1:A:34:LEU:HD23	1:A:48:ARG:NH2	0.47	2.24	26	1
2:B:318:GLN:OE1	2:B:318:GLN:CA	0.47	2.61	34	1
1:A:17:THR:CG2	1:A:29:GLN:HB2	0.47	2.40	21	11
2:B:327:ASP:O	2:B:330:GLU:CG	0.47	2.62	8	6
1:A:41:MET:HG3	1:A:42:ALA:N	0.47	2.25	3	6
1:A:10:ALA:C	1:A:12:GLN:N	0.47	2.71	16	9
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: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:29:GLN:N	1:A:29:GLN:NE2	0.47	2.63	27	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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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: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
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
1:A:45:ILE:HD13	1:A:45:ILE:C	0.47	2.34	24	8
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: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:340:ILE:CB	2:B:343:LEU:HD12	0.47	2.35	35	1
1:A:52:TYR:O	1:A:53:VAL:C	0.47	2.58	19	22
1:A:31:LEU:O	1:A:35:LYS:CG	0.47	2.63	4	1
1:A:38:PRO:C	1:A:40:LEU:N	0.47	2.69	30	11
1:A:15:LEU:HD21	2:B:322:PHE:CE2	0.47	2.44	7	1
1:A:11:LEU:CD2	1:A:12:GLN:N	0.47	2.77	16	5
1:A:18:LEU:HD21	1:A:44:PHE:CE1	0.47	2.45	13	1
2:B:335:ASP:OD2	2:B:339:GLY:C	0.47	2.58	23	1
1:A:47:GLN:NE2	2:B:320:VAL:HG22	0.47	2.22	28	1
1:A:37:ASN:CB	1:A:40:LEU:HD13	0.47	2.40	37	1
2:B:339:GLY:C	2:B:340:ILE:HG23	0.47	2.34	29	5
1:A:14:LEU:CD2	2:B:319:LEU:CD2	0.47	2.91	17	3
1:A:36:SER:O	1:A:37:ASN:CG	0.47	2.58	23	7
1:A:48:ARG:CZ	1:A:48:ARG:HB3	0.47	2.39	20	2
1:A:37:ASN:O	1:A:41:MET:CG	0.47	2.62	19	1
2:B:344:VAL:HG22	2:B:357:PRO:CB	0.47	2.40	35	1
1:A:28:GLN:OE1	1:A:32:ASN:CG	0.47	2.58	36	1
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
1:A:10:ALA:HB1	1:A:37:ASN:CG	0.47	2.34	1	5
2:B:334:LEU:C	2:B:334:LEU:HD13	0.47	2.35	4	2
2:B:354:LYS:O	2:B:355:LEU:C	0.47	2.58	12	9
1:A:47:GLN:CD	2:B:320:VAL:CG2	0.47	2.82	12	1
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
2:B:332:ALA:C	2:B:334:LEU:N	0.46	2.72	20	22

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:51:LYS:CD	2:B:338:LEU:HD23	0.46	2.37	5	1
1:A:6:ILE:CG1	1:A:39:GLN:CB	0.46	2.93	20	4
2:B:354:LYS:O	2:B:356:VAL:N	0.46	2.48	12	6
2:B:340:ILE:CA	2:B:343:LEU:HD23	0.46	2.40	19	1
1:A:18:LEU:CD2	1:A:44:PHE:CE2	0.46	2.92	30	1
1:A:39:GLN:O	1:A:39:GLN:CD	0.46	2.58	5	4
1:A:45:ILE:CG2	1:A:46:LYS:N	0.46	2.78	22	11
1:A:39:GLN:O	1:A:39:GLN:NE2	0.46	2.49	28	2
1:A:9:SER:O	1:A:10:ALA:C	0.46	2.58	37	7
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	6
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
1:A:28:GLN:O	1:A:32:ASN:CG	0.46	2.58	4	14
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: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
1:A:33:ILE:HA	1:A:37:ASN:OD1	0.46	2.10	30	1
2:B:335:ASP:CG	2:B:341:ASP:OD1	0.46	2.58	31	1
2:B:353:SER:O	2:B:356:VAL:CG1	0.46	2.63	15	1
2:B:335:ASP:CG	2:B:342:LYS:HZ2	0.46	2.19	29	1
2:B:351:VAL:HG21	2:B:361:LEU:HD22	0.46	1.85	10	1
1:A:51:LYS:NZ	1:A:55:ASN:HD21	0.46	2.07	19	1
2:B:338:LEU:CB	2:B:341:ASP:CB	0.46	2.92	33	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
1:A:6:ILE:CG2	1:A:40:LEU:CD2	0.46	2.91	22	2
1:A:14:LEU:HD12	1:A:33:ILE:HB	0.46	1.88	18	1
1:A:51:LYS:NZ	1:A:55:ASN:ND2	0.46	2.64	19	1
2:B:338:LEU:O	2:B:340:ILE:N	0.46	2.43	24	2
1:A:12:GLN:O	1:A:16:ARG:HB3	0.46	2.11	5	17
1:A:17:THR:C	1:A:19:LYS:N	0.46	2.73	33	9
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:48:ARG:CZ	2:B:343:LEU:HB3	0.46	2.41	20	1
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:52:TYR:CE1	2:B:344:VAL:HB	0.45	2.46	1	5
2:B:327:ASP:C	2:B:329:THR:N	0.45	2.74	28	12
1:A:14:LEU:HD22	1:A:33:ILE:CG1	0.45	2.42	8	2
2:B:328:GLU:C	2:B:342:LYS:NZ	0.45	2.74	19	1
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:49:THR:C	1:A:51:LYS:N	0.45	2.70	31	25
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
2:B:355:LEU:C	2:B:356:VAL:HG22	0.45	2.36	14	2
1:A:19:LYS:CE	2:B:322:PHE:CZ	0.45	3.00	36	1
2:B:325:GLY:O	2:B:326:LYS:C	0.45	2.59	13	29
2:B:358:ARG:HB3	2:B:361:LEU:CD1	0.45	2.40	13	4
1:A:10:ALA:O	1:A:11:LEU:C	0.45	2.60	14	10
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
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:14:LEU:HG	2:B:319:LEU:HD22	0.45	1.88	6	1
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:352:LEU:H	2:B:352:LEU:HD13	0.45	1.72	34	2
2:B:332:ALA:O	2:B:336:ARG:N	0.45	2.49	22	3
2:B:341:ASP:O	2:B:341:ASP:CG	0.45	2.59	23	1
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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:337:ALA:CB	2:B:355:LEU:HD22	0.45	2.42	12	1
2:B:332:ALA:CB	2:B:342:LYS:CE	0.45	2.95	17	2
1:A:56:GLN:O	1:A:56:GLN:HG3	0.45	2.12	25	1
2:B:326:LYS:HA	2:B:326:LYS:CE	0.45	2.41	28	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
1:A:52:TYR:CE1	2:B:352:LEU:HD21	0.45	2.47	8	1
1:A:39:GLN:OE1	2:B:312:GLU:CD	0.45	2.60	11	1
2:B:355:LEU:C	2:B:356:VAL:CG2	0.45	2.89	14	2
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
1:A:14:LEU:HD13	1:A:18:LEU:CD2	0.44	2.42	24	1
1:A:5:SER:HG	1:A:6:ILE:H	0.44	1.55	26	1
1:A:44:PHE:CE1	1:A:48:ARG:CD	0.44	3.00	36	1
1:A:23:SER:OG	2:B:345:GLN:CD	0.44	2.60	12	1
1:A:11:LEU:H	1:A:11:LEU:CD1	0.44	2.23	16	3
2:B:311:ASP:OD1	2:B:313:LYS:N	0.44	2.50	19	1
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:312:GLU:O	2:B:316:LEU:HG	0.44	2.11	9	2
1:A:45:ILE:O	1:A:49:THR:HG22	0.44	2.12	30	2
2:B:332:ALA:HB1	2:B:342:LYS:NZ	0.44	2.26	14	1
1:A:14:LEU:HD22	1:A:40:LEU:HD12	0.44	1.89	26	1
1:A:19:LYS:O	1:A:20:SER:O	0.44	2.36	13	23
1:A:51:LYS:HE2	2:B:338:LEU:HD12	0.44	1.90	1	1
1:A:48:ARG:HH22	2:B:323:LEU:HD22	0.44	1.72	15	1
2:B:326:LYS:CE	2:B:326:LYS:HA	0.44	2.42	15	2
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:11:LEU:CA	1:A:40:LEU:HD11	0.44	2.41	9	2
1:A:14:LEU:CG	2:B:319:LEU:HD22	0.44	2.41	6	1
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
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
2:B:329:THR:N	2:B:342:LYS:HZ1	0.44	2.10	28	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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
2:B:341:ASP:CG	2:B:357:PRO:HA	0.44	2.37	17	3
2:B:323:LEU:CD2	2:B:326:LYS:HZ3	0.44	2.25	27	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
2:B:352:LEU:H	2:B:352:LEU:HD22	0.44	1.73	11	2
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: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
1:A:37:ASN:CG	1:A:40:LEU:HD13	0.44	2.38	37	1
2:B:341:ASP:O	2:B:357:PRO:HB2	0.44	2.12	37	1
1:A:10:ALA:HB2	1:A:37:ASN:OD1	0.44	2.13	9	3
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:8:PRO:C	1:A:11:LEU:CD2	0.44	2.91	23	4
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:43:ALA:HB2	2:B:316:LEU:HD22	0.44	1.88	34	4
2:B:316:LEU:O	2:B:317:GLU:C	0.44	2.60	30	4
1:A:14:LEU:HD11	2:B:319:LEU:HG	0.44	1.89	34	1
2:B:343:LEU:C	2:B:345:GLN:OE1	0.43	2.61	17	1
1:A:56:GLN:O	1:A:56:GLN:CD	0.43	2.61	19	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:44:PHE:O	1:A:45:ILE:C	0.43	2.60	15	7
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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
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	3
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:17:THR:C	1:A:26:GLN:OE1	0.43	2.61	32	1
1:A:6:ILE:HD12	1:A:40:LEU:HD12	0.43	1.89	37	1
1:A:18:LEU:HD12	2:B:326:LYS:HZ3	0.43	1.74	6	1
1:A:51:LYS:HB3	2:B:340:ILE:HD11	0.43	1.89	6	1
2:B:344:VAL:HG22	2:B:351:VAL:HB	0.43	1.90	9	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
1:A:22:SER:HA	1:A:26:GLN:CD	0.43	2.38	6	2
2:B:345:GLN:HB2	2:B:358:ARG:CG	0.43	2.42	18	3
1:A:6:ILE:CG1	1:A:39:GLN:HB3	0.43	2.44	15	3
1:A:6:ILE:CD1	1:A:40:LEU:HD12	0.43	2.43	19	1
1:A:18:LEU:CD1	2:B:323:LEU:CD2	0.43	2.96	19	1
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:32:ASN:O	1:A:35:LYS:HG2	0.43	2.14	33	4
2:B:332:ALA:HB1	2:B:335:ASP:OD2	0.43	2.14	8	1
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: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:HA	2:B:357:PRO:C	0.43	2.38	13	2
2:B:345:GLN:HB2	2:B:358:ARG:CB	0.43	2.44	20	2
1:A:23:SER:OG	1:A:24:PRO:HD3	0.43	2.14	31	4
2:B:340:ILE:HA	2:B:343:LEU:HD23	0.43	1.90	19	1
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
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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
2:B:340:ILE:C	2:B:342:LYS:H	0.43	2.21	24	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
1:A:37:ASN:CG	1:A:40:LEU:HB2	0.42	2.39	26	1
2:B:313:LYS:O	2:B:317:GLU:CB	0.42	2.67	30	4
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
1:A:45:ILE:CD1	1:A:45:ILE:C	0.42	2.91	25	1
2:B:332:ALA:CB	2:B:335:ASP:OD1	0.42	2.66	29	1
2:B:335:ASP:OD2	2:B:339:GLY:O	0.42	2.37	32	1
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:344:VAL:HB	2:B:357:PRO:CB	0.42	2.44	19	1
2:B:340:ILE:CD1	2:B:344:VAL:CG1	0.42	2.96	35	1
1:A:18:LEU:HD22	1:A:18:LEU:N	0.42	2.30	22	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:30:VAL:CG2	1:A:31:LEU:HD22	0.42	2.45	33	2
1:A:11:LEU:CD2	1:A:11:LEU:O	0.42	2.62	24	2
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:54:ALA:C	1:A:55:ASN:OD1	0.42	2.61	32	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
1:A:14:LEU:CD2	1:A:33:ILE:HG13	0.42	2.44	8	3
2:B:328:GLU:O	2:B:328:GLU:OE1	0.42	2.38	15	1
1:A:17:THR:HG22	1:A:26:GLN:HE22	0.42	1.67	31	2
2:B:318:GLN:CD	2:B:318:GLN:O	0.42	2.63	36	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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
1:A:52:TYR:O	1:A:55:ASN:OD1	0.42	2.37	17	2
2:B:335:ASP:C	2:B:335:ASP:OD2	0.42	2.61	17	1
2:B:335:ASP:OD2	2:B:341:ASP:N	0.42	2.53	18	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
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
2:B:312:GLU:C	2:B:314:ALA:N	0.42	2.76	31	1
1:A:14:LEU:HD11	1:A:18:LEU:HD11	0.42	1.91	36	1
1:A:26:GLN:O	1:A:27:GLN:C	0.42	2.63	28	18
1:A:39:GLN:CD	1:A:39:GLN:C	0.42	2.87	5	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:46:LYS:HA	1:A:46:LYS:CE	0.42	2.45	6	3
1:A:51:LYS:CE	2:B:338:LEU:HD12	0.42	2.44	1	1
1:A:26:GLN:NE2	1:A:30:VAL:CG1	0.42	2.83	9	2
2:B:338:LEU:N	2:B:338:LEU:CD1	0.42	2.81	5	1
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
2:B:334:LEU:C	2:B:334:LEU:CD1	0.42	2.93	15	1
1:A:39:GLN:OE1	1:A:39:GLN:O	0.42	2.38	27	1
1:A:38:PRO:O	1:A:40:LEU:N	0.42	2.53	30	1
1:A:14:LEU:CD1	1:A:33:ILE:HG13	0.41	2.45	22	3
1:A:52:TYR:C	1:A:56:GLN:HG3	0.41	2.40	25	1
2:B:355:LEU:O	2:B:357:PRO:CD	0.41	2.69	1	1
2:B:338:LEU:N	2:B:338:LEU:HD22	0.41	2.29	6	1
2:B:341:ASP:OD2	2:B:341:ASP:C	0.41	2.62	15	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:30:VAL:HG22	1:A:31:LEU:N	0.41	2.30	37	1
1:A:19:LYS:C	1:A:20:SER:O	0.41	2.64	11	7
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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:335:ASP:CG	2:B:342:LYS:HE3	0.41	2.41	17	1
1:A:52:TYR:CZ	2:B:344:VAL:HB	0.41	2.50	29	1
2:B:335:ASP:CB	2:B:341:ASP:OD1	0.41	2.68	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
1:A:45:ILE:HD11	1:A:48:ARG:CZ	0.41	2.45	2	1
2:B:335:ASP:OD1	2:B:339:GLY:C	0.41	2.63	21	1
2:B:344:VAL:CG2	2:B:352:LEU:CD2	0.41	2.96	4	1
1:A:41:MET:SD	1:A:41:MET:C	0.41	3.04	12	1
2:B:344:VAL:HG23	2:B:351:VAL:HA	0.41	1.91	13	1
1:A:22:SER:O	1:A:23:SER:HB3	0.41	2.16	19	2
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: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:328:GLU:HB3	2:B:342:LYS:HZ3	0.41	1.76	12	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
1:A:25:GLN:C	1:A:29:GLN:HG2	0.41	2.40	31	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
2:B:344:VAL:O	2:B:344:VAL:HG22	0.41	2.16	10	2
1:A:48:ARG:NH2	2:B:340:ILE:HB	0.41	2.28	10	2
2:B:329:THR:CG2	2:B:336:ARG:HD2	0.41	2.46	15	1
1:A:41:MET:C	1:A:41:MET:SD	0.41	3.04	17	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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
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:342:LYS:N	2:B:342:LYS:NZ	0.41	2.52	3	1
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: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
1:A:21:PRO:O	2:B:328:GLU:OE2	0.41	2.39	19	1
2:B:342:LYS:NZ	2:B:342:LYS:HB3	0.41	2.31	21	1
2:B:317:GLU:CA	2:B:320:VAL:HG12	0.41	2.46	25	1
2:B:353:SER:C	2:B:354:LYS:O	0.41	2.62	28	1
1:A:14:LEU:HD23	1:A:14:LEU:C	0.41	2.41	33	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:N	1:A:34:LEU:CD1	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
1:A:18:LEU:C	1:A:20:SER:N	0.40	2.79	5	1
2:B:345:GLN:NE2	2:B:358:ARG:NH1	0.40	2.68	5	1
1:A:47:GLN:O	1:A:50:ALA:HB3	0.40	2.15	9	1
2:B:352:LEU:H	2:B:352:LEU:CD2	0.40	2.21	28	1
1:A:40:LEU:HD13	1:A:40:LEU:HA	0.40	1.81	29	1
1:A:39:GLN:NE2	1:A:39:GLN:O	0.40	2.54	32	1
1:A:46:LYS:CE	1:A:46:LYS:HA	0.40	2.46	34	1
2:B:315:LEU:N	2:B:315:LEU:HD12	0.40	2.31	34	1
2:B:312:GLU:O	2:B:313:LYS:C	0.40	2.63	35	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:15:LEU:HD23	1:A:15:LEU:C	0.40	2.41	12	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

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
2:B:320:VAL:CG1	2:B:321:SER:N	0.40	2.84	23	1
1:A:6:ILE:CD1	1:A:40:LEU:CD2	0.40	3.00	26	1
1:A:36:SER:C	1:A:37:ASN:CG	0.40	2.89	28	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
2:B:316:LEU:C	2:B:318:GLN:N	0.40	2.78	37	1
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:52:TYR:HA	1:A:55:ASN:CG	0.40	2.41	8	1
1:A:8:PRO:HA	2:B:315:LEU:HD23	0.40	1.91	17	1
2:B:352:LEU:C	2:B:353:SER:O	0.40	2.65	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 7

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

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Mol	Chain	Res	Type	Models (Total)
2	B	353	SER	23
2	B	345	GLN	21
2	B	336	ARG	21
2	B	360	SER	17
2	B	351	VAL	16
2	B	354	LYS	16
1	A	5	SER	14
1	A	8	PRO	13
1	A	6	ILE	11
2	B	359	GLY	11
2	B	340	ILE	11
2	B	356	VAL	7
2	B	355	LEU	6
1	A	9	SER	6
2	B	352	LEU	5
2	B	346	GLY	4
1	A	34	LEU	2
1	A	55	ASN	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%)	26±2 (55±5%)	21±2 (45±5%)	0 3
2	B	40/49 (82%)	22±2 (55±6%)	18±2 (45±6%)	0 2
All	All	3219/3774 (85%)	1778 (55%)	1441 (45%)	0 3

All 77 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	6	ILE	37
1	A	11	LEU	37
1	A	23	SER	37
1	A	30	VAL	37

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Mol	Chain	Res	Type	Models (Total)
1	A	31	LEU	37
1	A	33	ILE	37
1	A	34	LEU	37
1	A	45	ILE	37
1	A	52	TYR	37
1	A	53	VAL	37
2	B	313	LYS	37
2	B	319	LEU	37
2	B	352	LEU	37
1	A	15	LEU	36
2	B	324	SER	35
2	B	342	LYS	34
2	B	316	LEU	33
2	B	322	PHE	33
2	B	361	LEU	33
1	A	28	GLN	30
1	A	46	LYS	30
2	B	354	LYS	30
2	B	355	LEU	26
1	A	17	THR	26
2	B	358	ARG	25
1	A	20	SER	24
2	B	329	THR	23
2	B	341	ASP	23
1	A	48	ARG	23
2	B	331	LEU	21
2	B	351	VAL	21
1	A	41	MET	20
1	A	51	LYS	20
1	A	14	LEU	20
2	B	344	VAL	19
1	A	47	GLN	18
2	B	334	LEU	18
1	A	40	LEU	18
1	A	39	GLN	17
2	B	336	ARG	16
2	B	343	LEU	15
2	B	327	ASP	14
1	A	56	GLN	14
1	A	12	GLN	13
1	A	36	SER	13
1	A	19	LYS	12

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Mol	Chain	Res	Type	Models (Total)
2	B	311	ASP	12
2	B	335	ASP	12
2	B	353	SER	11
2	B	326	LYS	11
1	A	7	SER	10
1	A	25	GLN	10
2	B	338	LEU	10
1	A	26	GLN	10
1	A	35	LYS	10
2	B	320	VAL	10
2	B	328	GLU	9
2	B	315	LEU	9
2	B	318	GLN	9
2	B	345	GLN	9
2	B	321	SER	7
2	B	356	VAL	7
2	B	360	SER	6
2	B	312	GLU	6
1	A	55	ASN	6
1	A	29	GLN	5
2	B	330	GLU	5
1	A	49	THR	5
1	A	37	ASN	4
1	A	27	GLN	3
1	A	16	ARG	2
1	A	5	SER	2
1	A	13	ASP	2
2	B	340	ILE	2
1	A	22	SER	1
1	A	9	SER	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 oligosaccharides 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