



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 03:07 PM UTC

PDB ID : 6YO6 / pdb_00006yo6
Title : Structure of iC3b1
Authors : Jensen, R.K.; Andersen, G.R.
Deposited on : 2020-04-14
Resolution : 6.00 Å(reported)

This is a Full wwPDB X-ray 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/XrayValidationReportHelp>

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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

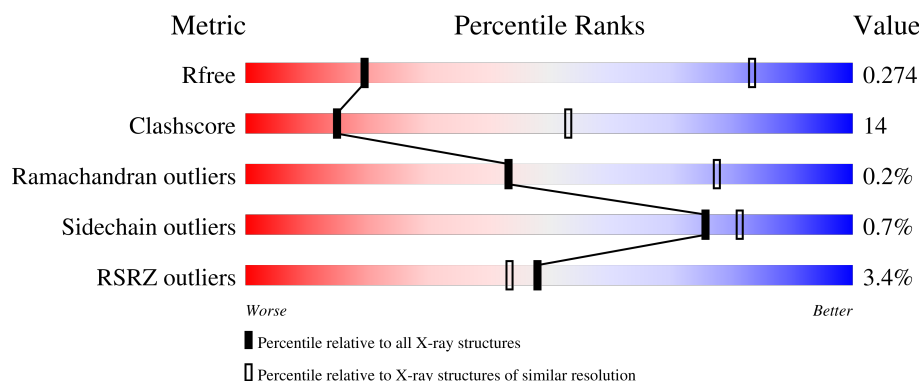
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 6.00 Å.

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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1143 (8.00-4.00)
Clashscore	190562	1210 (8.00-4.00)
Ramachandran outliers	187476	1034 (8.00-4.00)
Sidechain outliers	187428	1000 (8.00-4.00)
RSRZ outliers	180081	1136 (8.00-4.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	645	3% 78% 20% ..
2	B	915	3% 81% 17% .
3	C	130	4% 85% 10% 5%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 13131 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called iC3b1 alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	638	Total	C	N	O	S	0	0	0
			4970	3165	843	947	15			

- Molecule 2 is a protein called iC3b1 beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	903	Total	C	N	O	S	4	0	0
			7211	4570	1213	1390	38			

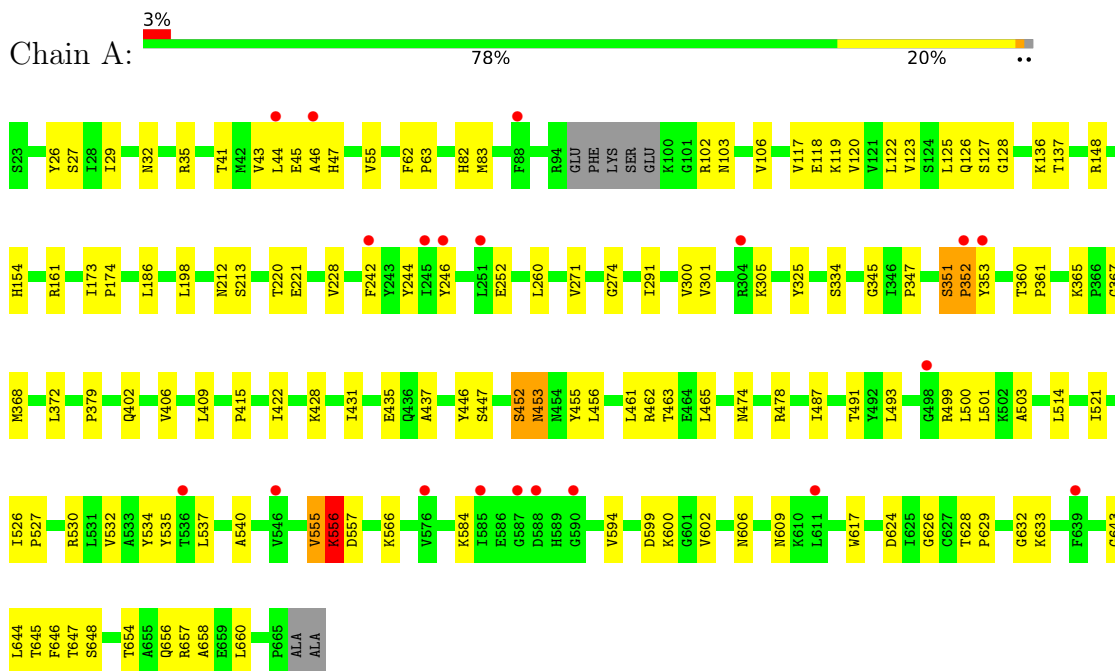
- Molecule 3 is a protein called hC3Nb1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	124	Total	C	N	O	S	1	0	0
			950	591	170	184	5			

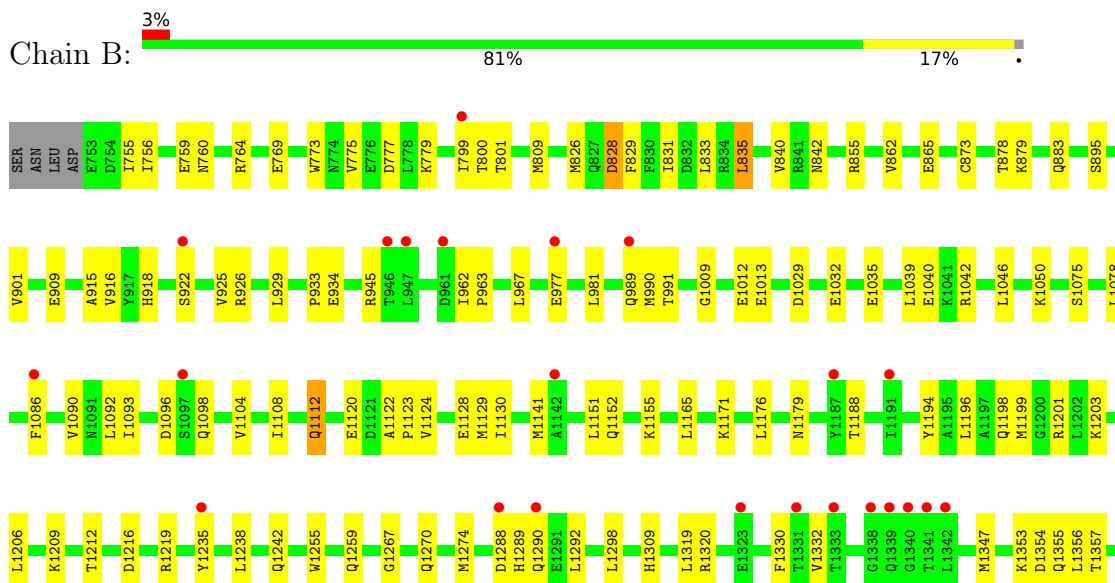
3 Residue-property plots

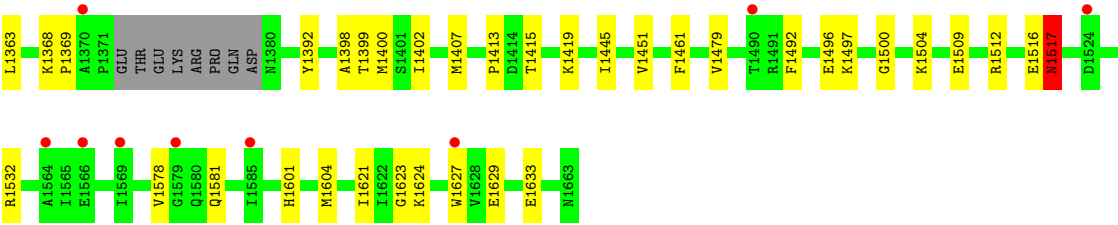
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-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. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: iC3b1 alpha chain

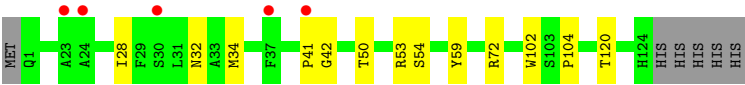
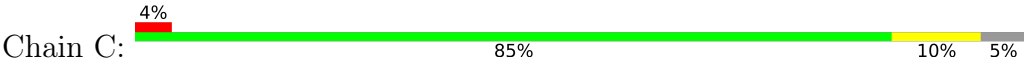


• Molecule 2: iC3b1 beta chain





● Molecule 3: hC3Nb1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	87.45Å 100.60Å 136.28Å 94.23° 108.12° 113.81°	Depositor
Resolution (Å)	47.59 – 6.00 47.59 – 6.00	Depositor EDS
% Data completeness (in resolution range)	98.3 (47.59-6.00) 86.0 (47.59-6.00)	Depositor EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.02 (at 4.85Å)	Xtriage
Refinement program	PHENIX dev_2614	Depositor
R, R_{free}	0.241 , 0.266 0.246 , 0.274	Depositor DCC
R_{free} test set	1707 reflections (9.96%)	wwPDB-VP
Wilson B-factor (Å ²)	139.9	Xtriage
Anisotropy	0.733	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 483.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	0.033 for h,-h-k,-h-l	Xtriage
F_o, F_c correlation	0.81	EDS
Total number of atoms	13131	wwPDB-VP
Average B, all atoms (Å ²)	315.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.34% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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 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	0.87	3/5068 (0.1%)	0.78	12/6884 (0.2%)
2	B	0.69	2/7348 (0.0%)	0.51	6/9936 (0.1%)
3	C	0.11	0/971	0.29	0/1313
All	All	0.74	5/13387 (0.0%)	0.61	18/18133 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
2	B	0	2
All	All	0	3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	556	LYS	C-N	-49.51	0.69	1.33
2	B	1517	ASN	C-N	-46.86	0.68	1.33
2	B	828	ASP	C-N	-34.09	0.87	1.33
1	A	452	SER	C-N	26.67	1.71	1.33
1	A	351	SER	C-N	24.15	1.90	1.33

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	452	SER	O-C-N	-33.25	81.94	122.17
1	A	452	SER	CA-C-N	21.07	161.78	121.54
1	A	452	SER	C-N-CA	21.07	161.78	121.54
2	B	1517	ASN	CA-C-N	-20.86	81.69	121.54
2	B	1517	ASN	C-N-CA	-20.86	81.69	121.54
2	B	1517	ASN	O-C-N	-20.71	95.04	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	556	LYS	CA-C-N	-19.73	87.21	121.94
1	A	556	LYS	C-N-CA	-19.73	87.21	121.94
1	A	556	LYS	O-C-N	-18.92	97.43	122.59
2	B	828	ASP	CA-C-N	-12.25	105.72	122.99
2	B	828	ASP	C-N-CA	-12.25	105.72	122.99
1	A	540	ALA	N-CA-C	11.51	123.39	111.07
2	B	828	ASP	O-C-N	10.38	134.74	122.17
1	A	351	SER	CA-C-N	-6.89	111.22	119.84
1	A	351	SER	C-N-CA	-6.89	111.22	119.84
1	A	228	VAL	CA-C-N	-6.59	111.83	120.67
1	A	228	VAL	C-N-CA	-6.59	111.83	120.67
1	A	228	VAL	O-C-N	6.33	130.06	123.04

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	556	LYS	Mainchain
2	B	1517	ASN	Mainchain
2	B	828	ASP	Mainchain

5.2 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 the 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 within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4970	0	5030	191	7
2	B	7211	0	7129	213	17
3	C	950	0	904	13	10
All	All	13131	0	13063	359	17

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 14.

All (359) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:PRO:CD	2:B:1319:LEU:HD21	1.22	1.59
1:A:174:PRO:CG	2:B:1319:LEU:HD21	1.21	1.57
1:A:452:SER:C	1:A:453:ASN:N	1.71	1.48
2:B:989:GLN:HA	2:B:1290:GLN:CG	1.41	1.47
2:B:989:GLN:CA	2:B:1290:GLN:HG2	1.44	1.45
1:A:174:PRO:CG	2:B:1319:LEU:CD2	1.96	1.42
2:B:1353:LYS:C	2:B:1355:GLN:N	1.82	1.37
1:A:351:SER:C	1:A:352:PRO:N	1.90	1.28
2:B:878:THR:OG1	2:B:1624:LYS:HE3	1.23	1.28
1:A:174:PRO:CD	2:B:1319:LEU:CD2	2.12	1.26
1:A:102:ARG:NH2	2:B:1032:GLU:O	1.70	1.23
2:B:1353:LYS:HB2	2:B:1355:GLN:N	1.51	1.23
2:B:1353:LYS:CD	2:B:1355:GLN:HB3	1.69	1.21
2:B:1353:LYS:CB	2:B:1355:GLN:N	2.05	1.19
1:A:174:PRO:HD2	2:B:1319:LEU:HD21	1.27	1.17
1:A:368:MET:HE3	1:A:478:ARG:HB2	1.18	1.16
2:B:1353:LYS:HD2	2:B:1355:GLN:CB	1.74	1.16
2:B:989:GLN:O	2:B:1289:HIS:O	1.63	1.15
2:B:878:THR:OG1	2:B:1624:LYS:CE	1.92	1.15
2:B:989:GLN:HA	2:B:1290:GLN:CB	1.66	1.15
1:A:242:PHE:CD2	1:A:379:PRO:HG2	1.82	1.14
2:B:989:GLN:CA	2:B:1290:GLN:CG	2.08	1.13
2:B:989:GLN:C	2:B:1290:GLN:HG2	1.72	1.13
1:A:599:ASP:C	1:A:600:LYS:N	2.06	1.12
1:A:174:PRO:HD2	2:B:1319:LEU:CD1	1.81	1.11
2:B:760:ASN:HD22	3:C:54:SER:HB2	1.16	1.11
2:B:1353:LYS:HB2	2:B:1355:GLN:CB	1.79	1.10
2:B:760:ASN:HD22	3:C:54:SER:CB	1.65	1.08
1:A:125:LEU:O	1:A:213:SER:HB2	1.53	1.08
1:A:174:PRO:HD2	2:B:1319:LEU:CD2	1.78	1.08
1:A:47:HIS:CE1	1:A:534:TYR:OH	2.06	1.08
1:A:368:MET:HE3	1:A:478:ARG:CB	1.83	1.07
1:A:174:PRO:HD2	2:B:1319:LEU:HD11	1.29	1.06
1:A:174:PRO:HG2	2:B:1319:LEU:CD2	1.82	1.06
1:A:125:LEU:O	1:A:213:SER:CB	2.04	1.05
1:A:47:HIS:NE2	1:A:534:TYR:OH	1.87	1.04
2:B:1353:LYS:HD2	2:B:1355:GLN:HB3	1.08	1.04
1:A:127:SER:O	1:A:161:ARG:NH1	1.90	1.04
2:B:1353:LYS:CA	2:B:1355:GLN:N	2.19	1.03
2:B:1354:ASP:N	2:B:1355:GLN:N	2.06	1.03
1:A:174:PRO:HG3	2:B:1319:LEU:CD2	1.87	1.02
1:A:174:PRO:HG3	2:B:1319:LEU:HD21	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:PHE:CG	1:A:379:PRO:HG2	1.95	1.00
2:B:1512:ARG:HH11	2:B:1621:ILE:HD12	1.22	1.00
2:B:989:GLN:CA	2:B:1290:GLN:CB	2.18	1.00
1:A:198:LEU:HD12	2:B:977:GLU:HB3	1.45	0.99
1:A:173:ILE:HG23	2:B:1319:LEU:HD12	1.45	0.97
1:A:452:SER:O	1:A:453:ASN:N	1.96	0.97
2:B:1353:LYS:HB2	2:B:1355:GLN:CA	1.92	0.96
1:A:173:ILE:HG23	2:B:1319:LEU:CD1	1.95	0.96
2:B:878:THR:CB	2:B:1624:LYS:HE3	1.96	0.95
2:B:878:THR:OG1	2:B:1624:LYS:CD	2.16	0.93
2:B:1353:LYS:HE3	2:B:1355:GLN:O	1.68	0.93
2:B:1512:ARG:CZ	2:B:1621:ILE:HG21	2.00	0.92
2:B:1512:ARG:HD3	2:B:1621:ILE:CD1	2.01	0.91
2:B:989:GLN:HA	2:B:1290:GLN:HG2	0.96	0.91
1:A:530:ARG:NH2	1:A:624:ASP:OD2	2.04	0.90
1:A:174:PRO:HD2	2:B:1319:LEU:CG	1.99	0.90
1:A:242:PHE:HB3	1:A:379:PRO:HB2	1.55	0.89
2:B:990:MET:N	2:B:1290:GLN:HG2	1.88	0.88
1:A:526:ILE:HG22	1:A:617:TRP:CH2	2.08	0.88
2:B:1512:ARG:NH1	2:B:1621:ILE:HD12	1.88	0.88
2:B:1492:PHE:HB2	2:B:1500:GLY:HA3	1.56	0.87
1:A:102:ARG:HH22	2:B:1032:GLU:C	1.83	0.86
1:A:174:PRO:CG	2:B:1319:LEU:HD23	2.06	0.86
2:B:1353:LYS:HB2	2:B:1355:GLN:HB3	1.58	0.85
2:B:1353:LYS:CD	2:B:1355:GLN:O	2.25	0.85
2:B:1353:LYS:CB	2:B:1355:GLN:HB3	2.07	0.84
2:B:989:GLN:C	2:B:1289:HIS:O	2.21	0.84
2:B:1353:LYS:CE	2:B:1355:GLN:O	2.27	0.83
1:A:117:VAL:HG13	1:A:647:THR:HG22	1.61	0.83
1:A:29:ILE:CG2	1:A:644:LEU:HD22	2.09	0.83
1:A:27:SER:HB2	1:A:646:PHE:CE1	2.15	0.82
1:A:102:ARG:HH21	2:B:1032:GLU:HB2	1.42	0.82
2:B:989:GLN:O	2:B:1289:HIS:C	2.22	0.81
2:B:989:GLN:CB	2:B:1290:GLN:HA	1.64	0.81
1:A:127:SER:HB3	1:A:161:ARG:NH1	1.96	0.81
1:A:368:MET:CE	1:A:478:ARG:CB	2.58	0.80
2:B:760:ASN:ND2	3:C:54:SER:HB2	1.96	0.80
1:A:127:SER:HB3	1:A:161:ARG:HH11	1.44	0.79
1:A:527:PRO:HB3	1:A:617:TRP:CE3	2.18	0.78
1:A:125:LEU:O	1:A:213:SER:HB3	1.84	0.77
1:A:102:ARG:NH2	2:B:1032:GLU:HB2	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:351:SER:C	1:A:353:TYR:H	1.92	0.77
1:A:242:PHE:CD2	1:A:379:PRO:CG	2.67	0.74
1:A:351:SER:OG	1:A:437:ALA:HB2	1.88	0.74
2:B:989:GLN:CG	2:B:1290:GLN:HA	2.17	0.74
1:A:242:PHE:HB3	1:A:379:PRO:CB	2.17	0.74
2:B:933:PRO:C	2:B:934:GLU:N	2.45	0.74
2:B:1152:GLN:OE1	2:B:1199:MET:SD	2.46	0.74
1:A:173:ILE:HA	2:B:1319:LEU:HD11	1.69	0.73
2:B:934:GLU:CD	2:B:1509:GLU:OE1	2.31	0.73
1:A:198:LEU:HD12	2:B:977:GLU:CB	2.17	0.73
2:B:1492:PHE:CB	2:B:1500:GLY:HA3	2.18	0.73
1:A:174:PRO:CD	2:B:1319:LEU:HD11	2.14	0.73
1:A:102:ARG:NH2	2:B:1032:GLU:CB	2.52	0.72
2:B:1353:LYS:CG	2:B:1355:GLN:HB3	2.19	0.72
2:B:1496:GLU:C	2:B:1497:LYS:N	2.47	0.72
2:B:1512:ARG:HD3	2:B:1621:ILE:HD13	1.70	0.72
1:A:368:MET:CE	1:A:478:ARG:HB3	2.21	0.71
1:A:29:ILE:HG22	1:A:644:LEU:HD22	1.72	0.70
2:B:1512:ARG:NH1	2:B:1621:ILE:CD1	2.55	0.70
2:B:1353:LYS:HD2	2:B:1355:GLN:CG	2.22	0.70
1:A:26:TYR:O	1:A:648:SER:HA	1.91	0.69
2:B:1046:LEU:HG	2:B:1093:ILE:HD11	1.74	0.69
1:A:119:LYS:NZ	1:A:654:THR:O	2.25	0.69
1:A:198:LEU:CD1	2:B:977:GLU:HB3	2.23	0.69
2:B:1353:LYS:CB	2:B:1355:GLN:CB	2.60	0.68
1:A:137:THR:HB	1:A:606:ASN:OD1	1.94	0.68
1:A:127:SER:OG	1:A:212:ASN:HB2	1.94	0.67
1:A:83:MET:CE	1:A:503:ALA:HB1	2.25	0.67
2:B:764:ARG:NH2	2:B:831:ILE:O	2.28	0.67
1:A:126:GLN:HA	1:A:213:SER:CB	2.25	0.67
1:A:244:TYR:OH	1:A:435:GLU:HG2	1.94	0.67
1:A:527:PRO:HG3	1:A:617:TRP:CE3	2.30	0.66
2:B:1353:LYS:HD2	2:B:1355:GLN:O	1.95	0.66
1:A:43:VAL:HG11	1:A:493:LEU:HD21	1.77	0.66
1:A:242:PHE:CZ	1:A:352:PRO:HB3	2.30	0.66
1:A:173:ILE:HG23	2:B:1319:LEU:HD11	1.76	0.66
1:A:127:SER:C	1:A:128:GLY:N	2.55	0.65
2:B:989:GLN:HG3	2:B:1290:GLN:C	2.21	0.65
1:A:103:ASN:OD1	2:B:1035:GLU:OE1	2.14	0.65
1:A:658:ALA:HB2	2:B:1039:LEU:HD11	1.78	0.65
1:A:446:TYR:HD2	1:A:632:GLY:O	1.80	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:MET:HG2	1:A:478:ARG:HD2	1.78	0.64
2:B:934:GLU:OE2	2:B:1509:GLU:OE1	2.16	0.64
1:A:446:TYR:CD2	1:A:632:GLY:O	2.51	0.64
1:A:45:GLU:OE1	1:A:491:THR:HG21	1.98	0.64
1:A:137:THR:OG1	1:A:606:ASN:O	2.13	0.64
1:A:594:VAL:HG12	2:B:775:VAL:HG22	1.79	0.63
2:B:879:LYS:HD3	2:B:1624:LYS:HD2	1.81	0.63
1:A:102:ARG:CZ	2:B:1032:GLU:O	2.43	0.63
2:B:1516:GLU:OE1	2:B:1623:GLY:CA	2.46	0.63
1:A:431:ILE:HG23	1:A:435:GLU:HB2	1.81	0.62
1:A:103:ASN:OD1	2:B:1035:GLU:OE2	2.18	0.62
2:B:1128:GLU:HB3	2:B:1267:GLY:HA2	1.81	0.61
1:A:527:PRO:HB3	1:A:617:TRP:CZ3	2.36	0.61
2:B:842:ASN:O	2:B:1504:LYS:NZ	2.33	0.61
1:A:174:PRO:HG3	2:B:1319:LEU:HD23	1.73	0.61
2:B:1152:GLN:CD	2:B:1199:MET:SD	2.84	0.61
2:B:878:THR:CG2	2:B:1624:LYS:HE3	2.30	0.61
1:A:103:ASN:OD1	2:B:1035:GLU:CD	2.43	0.61
1:A:244:TYR:CZ	1:A:435:GLU:HG2	2.36	0.60
2:B:989:GLN:C	2:B:1290:GLN:CG	2.57	0.60
2:B:1198:GLN:O	2:B:1199:MET:HG3	1.99	0.60
1:A:186:LEU:O	2:B:809:MET:HG2	2.01	0.60
1:A:41:THR:HB	1:A:500:LEU:HB2	1.82	0.60
1:A:35:ARG:HG2	1:A:154:HIS:CE1	2.37	0.60
2:B:865:GLU:HB2	2:B:883:GLN:HG2	1.83	0.60
1:A:198:LEU:HD13	2:B:1347:MET:HB2	1.83	0.59
1:A:125:LEU:C	1:A:213:SER:HB3	2.27	0.59
2:B:760:ASN:ND2	3:C:54:SER:OG	2.35	0.59
2:B:1203:LYS:HB2	2:B:1206:LEU:HG	1.83	0.59
2:B:1353:LYS:HB2	2:B:1355:GLN:HB2	1.82	0.58
2:B:1516:GLU:OE1	2:B:1623:GLY:HA2	2.04	0.58
1:A:456:LEU:HB2	1:A:535:TYR:HE2	1.67	0.58
1:A:368:MET:SD	1:A:478:ARG:HB3	2.43	0.58
1:A:35:ARG:NH1	1:A:154:HIS:CG	2.71	0.58
1:A:351:SER:C	1:A:353:TYR:N	2.61	0.58
1:A:527:PRO:CB	1:A:617:TRP:CE3	2.86	0.58
1:A:402:GLN:HG2	1:A:463:THR:HG23	1.85	0.58
1:A:27:SER:CB	1:A:646:PHE:CE1	2.86	0.57
1:A:527:PRO:CG	1:A:617:TRP:CZ3	2.88	0.57
3:C:28:ILE:HD11	3:C:34:MET:HG3	1.86	0.57
1:A:43:VAL:HG11	1:A:493:LEU:CD2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:760:ASN:ND2	3:C:54:SER:CB	2.50	0.57
1:A:122:LEU:HD21	1:A:660:LEU:HD23	1.86	0.56
1:A:174:PRO:HG2	2:B:1319:LEU:CG	2.35	0.56
2:B:989:GLN:CA	2:B:1289:HIS:O	2.34	0.56
2:B:1601:HIS:ND1	2:B:1633:GLU:OE2	2.38	0.56
1:A:368:MET:HG2	1:A:478:ARG:CD	2.36	0.55
1:A:556:LYS:C	1:A:557:ASP:OD1	2.49	0.55
2:B:1512:ARG:NH1	2:B:1621:ILE:HB	2.22	0.55
2:B:1392:TYR:CG	2:B:1398:ALA:HB2	2.41	0.55
1:A:148:ARG:HG3	2:B:773:TRP:CZ2	2.42	0.55
1:A:461:LEU:HG	1:A:462:ARG:N	2.21	0.55
2:B:1050:LYS:HG3	2:B:1093:ILE:HD13	1.89	0.54
1:A:29:ILE:HA	1:A:645:THR:O	2.08	0.54
2:B:862:VAL:HG22	2:B:916:VAL:HG12	1.89	0.54
2:B:1151:LEU:HB3	2:B:1165:LEU:HD11	1.88	0.54
2:B:989:GLN:CG	2:B:1290:GLN:CA	2.84	0.54
1:A:117:VAL:CG1	1:A:647:THR:HG22	2.36	0.54
1:A:220:THR:OG1	1:A:609:ASN:HB3	2.06	0.54
1:A:658:ALA:HB2	2:B:1039:LEU:CD1	2.37	0.54
1:A:47:HIS:HE1	1:A:534:TYR:OH	1.85	0.53
1:A:102:ARG:HH21	2:B:1032:GLU:CB	2.12	0.53
1:A:566:LYS:HE3	1:A:584:LYS:HD2	1.90	0.53
3:C:50:THR:HG21	3:C:104:PRO:HB2	1.90	0.53
1:A:368:MET:SD	1:A:455:TYR:HB2	2.48	0.53
1:A:527:PRO:HD3	1:A:617:TRP:CZ3	2.44	0.53
2:B:1354:ASP:C	2:B:1356:LEU:H	2.16	0.53
2:B:1516:GLU:OE1	2:B:1624:LYS:N	2.42	0.53
1:A:32:ASN:ND2	1:A:643:GLY:HA2	2.24	0.53
2:B:1512:ARG:HH12	2:B:1621:ILE:HB	1.74	0.53
2:B:1353:LYS:CG	2:B:1355:GLN:O	2.56	0.53
2:B:1353:LYS:HG3	2:B:1355:GLN:O	2.09	0.53
1:A:47:HIS:CE1	1:A:534:TYR:CZ	2.97	0.53
1:A:173:ILE:CA	2:B:1319:LEU:HD11	2.36	0.53
1:A:127:SER:C	1:A:161:ARG:HH12	2.10	0.52
2:B:756:ILE:HG22	2:B:915:ALA:HB3	1.92	0.52
1:A:174:PRO:HG2	2:B:1319:LEU:HD23	1.75	0.52
1:A:530:ARG:CZ	1:A:626:GLY:HA3	2.39	0.52
2:B:1194:TYR:O	2:B:1198:GLN:HG2	2.09	0.52
2:B:1216:ASP:HB3	2:B:1219:ARG:HH12	1.74	0.52
2:B:1532:ARG:NH2	2:B:1629:GLU:OE2	2.31	0.52
1:A:46:ALA:HB3	1:A:82:HIS:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:173:ILE:CG2	2:B:1319:LEU:HD11	2.40	0.52
1:A:527:PRO:HG3	1:A:617:TRP:CZ3	2.45	0.52
1:A:527:PRO:CG	1:A:617:TRP:CE3	2.93	0.52
2:B:833:LEU:HG	2:B:835:LEU:HD13	1.91	0.52
2:B:1354:ASP:N	2:B:1354:ASP:OD1	2.37	0.52
1:A:291:ILE:HD13	1:A:300:VAL:HB	1.91	0.51
1:A:102:ARG:NH2	2:B:1032:GLU:C	2.57	0.51
1:A:367:GLY:HA3	1:A:478:ARG:CZ	2.41	0.51
2:B:1512:ARG:NH1	2:B:1621:ILE:HG21	2.23	0.51
1:A:351:SER:C	1:A:352:PRO:CA	2.79	0.51
2:B:1120:GLU:HG3	2:B:1122:ALA:H	1.76	0.51
3:C:32:ASN:HA	3:C:53:ARG:HB2	1.93	0.51
2:B:1198:GLN:HA	2:B:1242:GLN:HG2	1.92	0.51
2:B:1124:VAL:HG11	2:B:1130:ILE:HD11	1.91	0.51
1:A:527:PRO:HD3	1:A:617:TRP:HZ3	1.75	0.50
1:A:372:LEU:HD11	1:A:422:ILE:HG21	1.93	0.50
1:A:122:LEU:CD2	1:A:660:LEU:HD23	2.42	0.50
1:A:465:LEU:HD21	1:A:521:ILE:HG13	1.92	0.50
2:B:1201:ARG:H	2:B:1201:ARG:HD3	1.77	0.50
2:B:1216:ASP:CB	2:B:1219:ARG:HH12	2.25	0.50
2:B:1512:ARG:HD3	2:B:1621:ILE:HD12	1.90	0.50
1:A:474:ASN:HB3	1:A:514:LEU:HD11	1.94	0.50
2:B:835:LEU:HG	2:B:929:LEU:HD23	1.94	0.50
2:B:1512:ARG:NH1	2:B:1621:ILE:CB	2.75	0.50
2:B:1298:LEU:HG	2:B:1332:VAL:HG22	1.93	0.49
1:A:334:SER:HB2	2:B:895:SER:OG	2.12	0.49
2:B:1353:LYS:CB	2:B:1355:GLN:CA	2.71	0.49
2:B:1512:ARG:NH2	2:B:1621:ILE:HG21	2.26	0.49
1:A:252:GLU:HG2	1:A:301:VAL:HG22	1.95	0.49
1:A:599:ASP:O	1:A:602:VAL:HG23	2.12	0.49
2:B:909:GLU:OE2	2:B:926:ARG:HD2	2.12	0.49
2:B:1075:SER:HB3	2:B:1078:LEU:HB3	1.95	0.48
1:A:530:ARG:HH12	1:A:624:ASP:CG	2.20	0.48
2:B:1309:HIS:NE2	2:B:1320:ARG:HG2	2.29	0.48
1:A:487:ILE:HD11	1:A:537:LEU:HD13	1.96	0.48
1:A:555:VAL:O	1:A:557:ASP:OD1	2.32	0.48
1:A:526:ILE:CG2	1:A:617:TRP:CH2	2.91	0.48
2:B:989:GLN:C	2:B:1289:HIS:C	2.72	0.47
2:B:777:ASP:HB2	2:B:779:LYS:NZ	2.28	0.47
1:A:44:LEU:HD13	1:A:55:VAL:HG11	1.96	0.47
1:A:83:MET:HE1	1:A:503:ALA:HB1	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1363:LEU:HD22	2:B:1479:VAL:HG23	1.95	0.47
1:A:45:GLU:CD	1:A:491:THR:HG21	2.40	0.47
2:B:855:ARG:HD2	3:C:102:TRP:CE3	2.49	0.47
1:A:32:ASN:HD22	1:A:657:ARG:HH11	1.62	0.47
1:A:526:ILE:CG2	1:A:617:TRP:CZ2	2.98	0.47
2:B:918:HIS:HA	3:C:59:TYR:OH	2.13	0.47
1:A:527:PRO:CD	1:A:617:TRP:CZ3	2.98	0.47
2:B:759:GLU:HG2	2:B:922:SER:OG	2.15	0.47
1:A:173:ILE:HG21	2:B:981:LEU:HD23	1.97	0.47
2:B:945:ARG:HH12	2:B:963:PRO:HD3	1.79	0.47
2:B:1198:GLN:O	2:B:1198:GLN:HG3	2.14	0.46
2:B:873:CYS:HB3	2:B:901:VAL:HB	1.96	0.46
1:A:527:PRO:CB	1:A:617:TRP:CZ3	2.98	0.46
2:B:1075:SER:HB2	2:B:1123:PRO:HG2	1.96	0.46
2:B:1512:ARG:CD	2:B:1621:ILE:CD1	2.86	0.46
1:A:499:ARG:NH2	1:A:501:LEU:HD13	2.31	0.46
2:B:1198:GLN:O	2:B:1199:MET:C	2.59	0.46
2:B:1353:LYS:HG3	2:B:1355:GLN:C	2.40	0.46
2:B:799:ILE:HG23	2:B:826:MET:HA	1.97	0.46
1:A:402:GLN:HG2	1:A:463:THR:CG2	2.46	0.46
1:A:532:VAL:HG11	1:A:644:LEU:HD12	1.98	0.46
2:B:1104:VAL:HG13	2:B:1151:LEU:HD22	1.98	0.46
1:A:352:PRO:O	1:A:379:PRO:HD3	2.15	0.46
2:B:1141:MET:HE2	2:B:1176:LEU:HD23	1.98	0.46
1:A:32:ASN:ND2	1:A:657:ARG:HH11	2.14	0.46
1:A:372:LEU:HB2	1:A:409:LEU:HB2	1.98	0.46
1:A:242:PHE:HZ	1:A:352:PRO:HB3	1.80	0.46
2:B:756:ILE:HG22	2:B:915:ALA:CB	2.46	0.46
1:A:32:ASN:CB	1:A:657:ARG:HH11	2.29	0.45
1:A:260:LEU:O	2:B:801:THR:OG1	2.20	0.45
2:B:991:THR:HG21	2:B:1288:ASP:N	2.32	0.45
2:B:1353:LYS:CG	2:B:1355:GLN:N	2.78	0.45
2:B:1155:LYS:NZ	2:B:1199:MET:HE1	2.32	0.45
2:B:1198:GLN:C	2:B:1199:MET:CG	2.89	0.45
1:A:126:GLN:HA	1:A:213:SER:HB3	1.97	0.45
2:B:962:ILE:HG13	2:B:1330:PHE:CE2	2.52	0.45
2:B:1120:GLU:HG3	2:B:1122:ALA:N	2.30	0.45
2:B:1398:ALA:HB3	2:B:1451:VAL:HG12	1.99	0.45
1:A:35:ARG:HH12	1:A:154:HIS:CB	2.30	0.44
1:A:447:SER:N	1:A:633:LYS:O	2.51	0.44
1:A:599:ASP:OD2	2:B:800:THR:HG21	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1363:LEU:HD13	2:B:1479:VAL:HG21	1.99	0.44
2:B:1415:THR:HG22	2:B:1419:LYS:HE2	1.98	0.44
1:A:127:SER:C	1:A:161:ARG:NH1	2.72	0.44
1:A:527:PRO:HB3	1:A:617:TRP:CD2	2.53	0.44
2:B:1176:LEU:HB2	2:B:1196:LEU:HD21	1.99	0.44
1:A:221:GLU:HB2	1:A:609:ASN:OD1	2.18	0.44
1:A:274:GLY:HA3	1:A:325:TYR:CZ	2.52	0.44
1:A:447:SER:O	1:A:633:LYS:O	2.36	0.44
2:B:1009:GLY:HA3	2:B:1013:GLU:HB3	2.00	0.44
2:B:1012:GLU:OE2	2:B:1124:VAL:HA	2.18	0.44
1:A:120:VAL:O	1:A:656:GLN:NE2	2.42	0.44
1:A:415:PRO:HB3	1:A:478:ARG:NH2	2.33	0.44
2:B:840:VAL:CG1	2:B:934:GLU:HA	2.48	0.44
2:B:878:THR:HG21	2:B:1624:LYS:HE3	2.00	0.44
1:A:118:GLU:O	1:A:647:THR:HG21	2.18	0.43
2:B:990:MET:H	2:B:1290:GLN:HG2	1.77	0.43
2:B:829:PHE:HB2	3:C:102:TRP:HH2	1.83	0.43
2:B:1141:MET:HE1	2:B:1179:ASN:HB2	2.01	0.43
2:B:1152:GLN:NE2	2:B:1199:MET:SD	2.92	0.43
1:A:127:SER:CB	1:A:161:ARG:NH1	2.77	0.43
1:A:271:VAL:HG11	1:A:300:VAL:HG11	2.00	0.43
1:A:406:VAL:HG11	1:A:462:ARG:HG2	2.01	0.43
3:C:53:ARG:HA	3:C:72:ARG:NH1	2.33	0.43
1:A:368:MET:CE	1:A:478:ARG:HB2	2.11	0.43
1:A:174:PRO:HG2	2:B:1319:LEU:HG	2.00	0.43
1:A:428:LYS:HB3	1:A:431:ILE:HB	2.01	0.43
2:B:1096:ASP:OD1	2:B:1098:GLN:HG2	2.19	0.43
2:B:1235:TYR:CE1	2:B:1274:MET:HE2	2.54	0.43
2:B:764:ARG:NH2	2:B:925:VAL:CG2	2.81	0.43
2:B:1086:PHE:O	2:B:1090:VAL:HG23	2.19	0.43
2:B:1512:ARG:CZ	2:B:1621:ILE:CG2	2.85	0.43
2:B:1512:ARG:NH1	2:B:1621:ILE:CG2	2.82	0.43
1:A:367:GLY:HA3	1:A:478:ARG:NH1	2.34	0.42
2:B:1199:MET:HB2	2:B:1199:MET:HE3	1.78	0.42
3:C:28:ILE:HG13	3:C:34:MET:HE3	2.00	0.42
1:A:361:PRO:HA	1:A:629:PRO:HG2	2.00	0.42
1:A:456:LEU:HB2	1:A:535:TYR:CE2	2.51	0.42
2:B:1029:ASP:OD2	2:B:1042:ARG:NH2	2.44	0.42
1:A:365:LYS:HG2	1:A:455:TYR:CD1	2.54	0.42
2:B:1209:LYS:HA	2:B:1212:THR:HG22	2.01	0.42
2:B:1255:TRP:O	2:B:1259:GLN:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:646:PHE:HB3	1:A:654:THR:HG23	2.02	0.42
1:A:102:ARG:NH1	2:B:1032:GLU:O	2.53	0.42
2:B:1309:HIS:CD2	2:B:1320:ARG:HG2	2.55	0.42
2:B:1407:MET:HE1	2:B:1461:PHE:HE1	1.85	0.42
2:B:878:THR:HG1	2:B:1624:LYS:CD	2.30	0.42
2:B:1194:TYR:CE1	2:B:1238:LEU:HB3	2.55	0.42
2:B:1604:MET:HA	2:B:1627:TRP:O	2.19	0.42
1:A:27:SER:HA	1:A:647:THR:O	2.19	0.42
2:B:1129:MET:O	2:B:1270:GLN:HG2	2.19	0.41
1:A:106:VAL:HG13	1:A:123:VAL:HG21	2.01	0.41
1:A:351:SER:CA	1:A:352:PRO:N	2.77	0.41
2:B:1407:MET:HE3	2:B:1413:PRO:HD3	2.02	0.41
2:B:1399:THR:OG1	2:B:1400:MET:N	2.52	0.41
1:A:345:GLY:O	1:A:347:PRO:HD3	2.20	0.41
2:B:1354:ASP:O	2:B:1357:THR:HG23	2.20	0.41
1:A:83:MET:HE3	1:A:503:ALA:CB	2.51	0.41
2:B:878:THR:OG1	2:B:1624:LYS:HD3	2.12	0.41
1:A:83:MET:CE	1:A:503:ALA:CB	2.98	0.41
1:A:136:LYS:NZ	2:B:769:GLU:OE1	2.37	0.41
1:A:360:THR:HG21	1:A:372:LEU:HD23	2.03	0.41
2:B:1368:LYS:HA	2:B:1369:PRO:HD3	1.95	0.41
1:A:35:ARG:CZ	1:A:154:HIS:CD2	3.03	0.40
1:A:532:VAL:HG11	1:A:644:LEU:CD1	2.52	0.40
2:B:1108:ILE:O	2:B:1112:GLN:HB2	2.20	0.40
1:A:62:PHE:CG	1:A:63:PRO:HA	2.56	0.40
1:A:242:PHE:CB	1:A:379:PRO:HG2	2.48	0.40
1:A:600:LYS:HE2	1:A:600:LYS:HB3	1.96	0.40
2:B:878:THR:OG1	2:B:1624:LYS:HD2	2.14	0.40
2:B:1141:MET:HE2	2:B:1176:LEU:HA	2.04	0.40
2:B:1402:ILE:HG23	2:B:1445:ILE:HG23	2.03	0.40

All (17) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:305:LYS:CE	2:B:1203:LYS:NZ[1_565]	1.30	0.90
2:B:1581:GLN:NE2	3:C:41:PRO:C[1_655]	1.34	0.86
1:A:305:LYS:CE	2:B:1203:LYS:CE[1_565]	1.35	0.85
1:A:246:TYR:CE1	2:B:1171:LYS:CE[1_565]	1.59	0.61
1:A:305:LYS:NZ	2:B:1203:LYS:CE[1_565]	1.62	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1581:GLN:NE2	3:C:42:GLY:N[1_655]	1.76	0.44
1:A:305:LYS:NZ	2:B:1203:LYS:NZ[1_565]	1.81	0.39
2:B:1578:VAL:O	3:C:120:THR:CG2[1_655]	1.84	0.36
1:A:246:TYR:OH	2:B:1171:LYS:NZ[1_565]	1.90	0.30
2:B:1581:GLN:NE2	3:C:41:PRO:O[1_655]	1.96	0.24
2:B:1581:GLN:CG	3:C:41:PRO:CB[1_655]	1.96	0.24
2:B:1581:GLN:OE1	3:C:42:GLY:N[1_655]	1.96	0.24
2:B:1581:GLN:NE2	3:C:41:PRO:CA[1_655]	2.01	0.19
2:B:1581:GLN:CD	3:C:41:PRO:CA[1_655]	2.02	0.18
2:B:1581:GLN:CD	3:C:42:GLY:N[1_655]	2.08	0.12
2:B:1581:GLN:CD	3:C:41:PRO:C[1_655]	2.11	0.09
1:A:246:TYR:CZ	2:B:1171:LYS:NZ[1_565]	2.13	0.07

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	630/645 (98%)	606 (96%)	21 (3%)	3 (0%)	24	63
2	B	886/915 (97%)	855 (96%)	30 (3%)	1 (0%)	48	83
3	C	122/130 (94%)	120 (98%)	2 (2%)	0	100	100
All	All	1638/1690 (97%)	1581 (96%)	53 (3%)	4 (0%)	43	77

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	453	ASN
2	B	1517	ASN
1	A	352	PRO
1	A	556	LYS

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	562/567 (99%)	560 (100%)	2 (0%)	84	84
2	B	799/811 (98%)	791 (99%)	8 (1%)	68	78
3	C	98/104 (94%)	98 (100%)	0	100	100
All	All	1459/1482 (98%)	1449 (99%)	10 (1%)	76	81

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	555	VAL
1	A	628	THR
2	B	755	ILE
2	B	835	LEU
2	B	967	LEU
2	B	1040	GLU
2	B	1092	LEU
2	B	1112	GLN
2	B	1188	THR
2	B	1292	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (16) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	32	ASN
1	A	154	HIS
1	A	356	HIS
1	A	392	GLN
1	A	580	GLN
1	A	589	HIS
2	B	760	ASN
2	B	842	ASN
2	B	856	GLN
2	B	989	GLN
2	B	1055	GLN

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Mol	Chain	Res	Type
2	B	1061	GLN
2	B	1349	HIS
2	B	1453	HIS
2	B	1617	ASN
2	B	1642	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	B	9
1	A	5

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	988:ALA	C	989:GLN	N	6.14

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	1287:PRO	C	1288:ASP	N	4.98
1	B	767:PHE	C	768:PRO	N	3.72
1	B	766:GLU	C	767:PHE	N	3.69
1	B	1354:ASP	C	1355:GLN	N	2.95
1	A	127:SER	C	128:GLY	N	2.55
1	B	1496:GLU	C	1497:LYS	N	2.47
1	B	933:PRO	C	934:GLU	N	2.45
1	A	599:ASP	C	600:LYS	N	2.06
1	A	351:SER	C	352:PRO	N	1.90
1	A	452:SER	C	453:ASN	N	1.71
1	B	828:ASP	C	829:PHE	N	0.87
1	A	556:LYS	C	557:ASP	N	0.69
1	B	1517:ASN	C	1518:CYS	N	0.68

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
1	A	638/645 (98%)	0.07	20 (3%)	51	45	246, 319, 366, 401	0
2	B	903/915 (98%)	0.26	32 (3%)	47	43	154, 306, 419, 462	1 (0%)
3	C	124/130 (95%)	0.34	5 (4%)	42	40	255, 295, 321, 337	0
All	All	1665/1690 (98%)	0.19	57 (3%)	48	43	154, 309, 386, 462	1 (0%)

All (57) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	1340	GLY	10.6
2	B	1290	GLN	8.0
2	B	947	LEU	7.3
3	C	41	PRO	4.7
1	A	546	VAL	4.1
2	B	1342	LEU	3.6
1	A	245	ILE	3.5
2	B	989	GLN	3.5
1	A	246	TYR	3.5
2	B	1338	GLY	3.5
1	A	639	PHE	3.5
1	A	536	THR	3.5
3	C	30	SER	3.4
2	B	1339	GLN	3.3
1	A	353	TYR	3.2
1	A	576	VAL	3.2
2	B	1564	ALA	3.0
2	B	1579	GLY	3.0
1	A	46	ALA	3.0
2	B	1585	ILE	2.8
2	B	1187	TYR	2.7
2	B	1235	TYR	2.7
2	B	1333	THR	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	304	ARG	2.6
1	A	611	LEU	2.6
1	A	588	ASP	2.5
2	B	946	THR	2.5
2	B	1566	GLU	2.5
2	B	1524	ASP	2.5
1	A	587	GLY	2.5
2	B	799	ILE	2.4
2	B	1370	ALA	2.4
2	B	1569	ILE	2.4
1	A	88	PHE	2.4
2	B	977	GLU	2.3
1	A	251	LEU	2.3
2	B	1331	THR	2.3
2	B	1323	GLU	2.2
1	A	498	GLY	2.2
2	B	1341	THR	2.2
2	B	1288	ASP	2.1
2	B	1490	THR	2.1
3	C	23	ALA	2.1
1	A	585	ILE	2.1
2	B	961	ASP	2.1
3	C	37	PHE	2.1
1	A	352	PRO	2.1
2	B	1097	SER	2.1
2	B	1142	ALA	2.0
3	C	24	ALA	2.0
1	A	44	LEU	2.0
2	B	1191	ILE	2.0
1	A	590	GLY	2.0
2	B	1086	PHE	2.0
2	B	1627	TRP	2.0
2	B	922	SER	2.0
1	A	242	PHE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.