



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 7, 2026 – 04:17 PM JST

PDB ID : 45AZ / pdb_000045az
Title : Crystal structure of the emerging Songling virus nucleoprotein
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Deposited on : 2026-08-21
Resolution : 2.00 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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.015 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

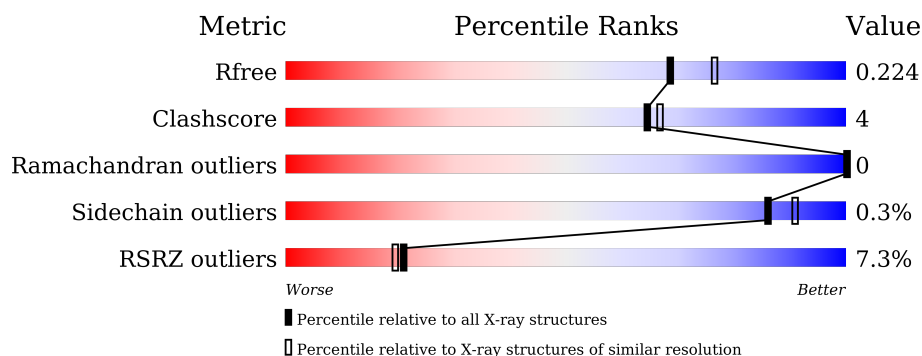
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	483	11% 93% 6% .
1	B	483	3% 89% 9% .

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 7786 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.

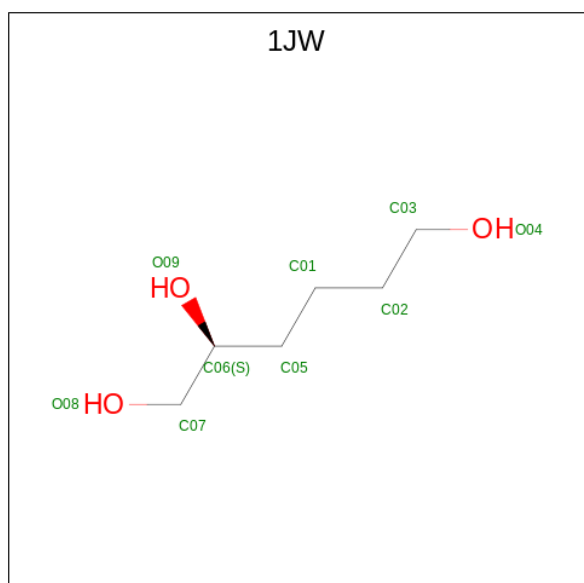
- Molecule 1 is a protein called Nucleoprotein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	474	Total	C	N	O	S	0	11	0
			3621	2305	612	682	22			
1	B	477	Total	C	N	O	S	0	4	0
			3689	2349	620	700	20			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	SER	-	expression tag	UNP A0A7U3T2R1
A	273	THR	ALA	conflict	UNP A0A7U3T2R1
A	365	SER	ALA	conflict	UNP A0A7U3T2R1
B	1	SER	-	expression tag	UNP A0A7U3T2R1
B	273	THR	ALA	conflict	UNP A0A7U3T2R1
B	365	SER	ALA	conflict	UNP A0A7U3T2R1

- Molecule 2 is (2S)-hexane-1,2,6-triol (CCD ID: 1JW) (formula: C₆H₁₄O₃).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 9 6 3	0	0
2	A	1	Total C O 9 6 3	0	0
2	A	1	Total C O 7 5 2	0	0
2	A	1	Total C O 9 6 3	0	0
2	B	1	Total C O 8 6 2	0	0
2	B	1	Total C O 7 5 2	0	0
2	B	1	Total C O 9 6 3	0	0
2	B	1	Total C O 9 6 3	0	0
2	B	1	Total C O 8 6 2	0	0

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Na 1 1	0	0
3	B	1	Total Na 1 1	0	0

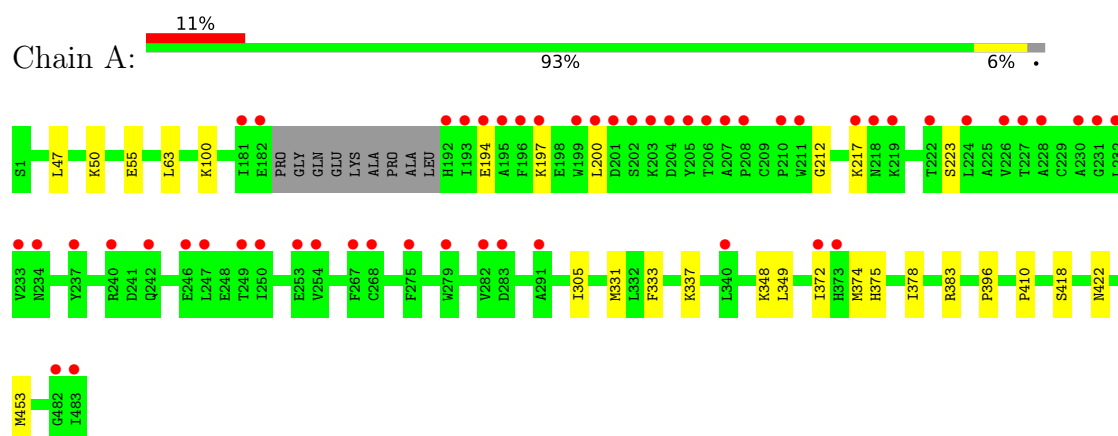
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	205	Total O 205 205	0	1
4	B	193	Total O 194 194	0	1

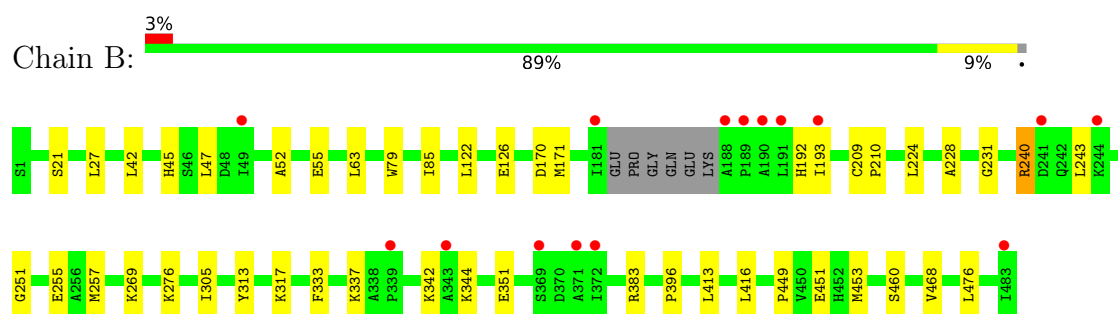
3 Residue-property plots [i](#)

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: Nucleoprotein



• Molecule 1: Nucleoprotein



4 Data and refinement statistics

Property	Value	Source
Space group	P 2 ₁ 2 ₁ 2 ₁	Depositor
Cell constants a, b, c, α , β , γ	54.53Å 113.48Å 215.91Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.56 – 2.00 44.56 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.9 (44.56-2.00) 99.9 (44.56-2.00)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.23 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.21_5207	Depositor
R, R_{free}	0.194 , 0.224 0.194 , 0.224	Depositor DCC
R_{free} test set	1997 reflections (2.18%)	wwPDB-VP
Wilson B-factor (Å ²)	45.8	Xtriage
Anisotropy	0.120	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 70.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7786	wwPDB-VP
Average B, all atoms (Å ²)	63.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.11% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: NA, 1JW

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	0.40	0/3738	0.59	0/5068
1	B	0.34	0/3791	0.54	0/5141
All	All	0.37	0/7529	0.57	0/10209

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	B	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	240	ARG	Sidechain

5.2 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 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	3621	0	3386	19	0
1	B	3689	0	3504	38	0
2	A	34	0	0	0	0
2	B	41	0	0	2	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	205	0	0	0	0
4	B	194	0	0	1	0
All	All	7786	0	6890	56	0

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 4.

All (56) 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:B:413:LEU:HD12	1:B:453:MET:HE2	1.23	1.09
1:B:47:LEU:HG	1:B:63:LEU:HD13	1.59	0.83
1:B:413:LEU:CD1	1:B:453:MET:HE2	2.08	0.78
1:B:413:LEU:HD12	1:B:453:MET:CE	2.13	0.69
1:A:217:LYS:HA	1:A:223:SER:HA	1.78	0.65
1:A:194:GLU:HA	1:A:197:LYS:HB2	1.80	0.62
1:A:331[A]:MET:HE2	1:A:349:LEU:HD21	1.83	0.58
1:A:197:LYS:HA	1:A:200:LEU:HD12	1.88	0.54
1:B:460:SER:HB3	1:B:468:VAL:HG11	1.88	0.54
1:A:50:LYS:HG2	1:A:55:GLU:HB3	1.90	0.54
1:B:193:ILE:HG12	1:B:231:GLY:HA3	1.91	0.53
1:A:374:MET:HE2	1:A:374:MET:HA	1.91	0.52
1:B:192:HIS:HE1	1:B:224:LEU:HG	1.75	0.52
1:B:333:PHE:CE2	1:B:337:LYS:HD2	2.45	0.51
1:B:342:LYS:C	1:B:344:LYS:H	2.18	0.50
1:B:45:HIS:CB	1:B:63:LEU:HD22	2.40	0.50
1:A:333:PHE:CE2	1:A:337:LYS:HD2	2.47	0.49
1:B:52:ALA:HB3	1:B:55:GLU:OE1	2.13	0.49
1:A:305:ILE:HD11	1:A:383:ARG:CZ	2.43	0.48
1:A:372:ILE:HG22	1:A:374:MET:HE3	1.95	0.48
1:B:42:LEU:HB2	4:B:737:HOH:O	2.14	0.48
1:B:27:LEU:H	2:B:501:1JW:C02	2.26	0.47
1:B:413:LEU:HD22	1:B:416:LEU:HD12	1.96	0.47
1:A:410:PRO:HB3	1:A:453:MET:HE3	1.96	0.46
1:A:305:ILE:HD11	1:A:383:ARG:NE	2.31	0.46
1:B:192:HIS:NE2	1:B:228:ALA:HB2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:255:GLU:HG3	1:B:269:LYS:HA	1.97	0.45
1:A:47:LEU:CD1	1:A:63:LEU:HD13	2.47	0.45
1:B:47:LEU:HG	1:B:63:LEU:CD1	2.40	0.44
1:B:413:LEU:CD1	1:B:453:MET:CE	2.86	0.44
1:A:418:SER:HA	1:A:422:ASN:OD1	2.17	0.44
1:A:212:GLY:O	1:B:351:GLU:OE1	2.36	0.44
1:B:257:MET:HE2	1:B:257:MET:HB2	1.80	0.44
1:B:305:ILE:HD11	1:B:383:ARG:NE	2.32	0.44
1:B:476:LEU:HD23	1:B:476:LEU:HA	1.78	0.43
1:B:42:LEU:HD23	1:B:42:LEU:HA	1.81	0.43
1:B:192:HIS:CE1	1:B:224:LEU:HG	2.53	0.43
1:A:331[B]:MET:HE1	1:A:348:LYS:HD3	2.00	0.43
1:B:170:ASP:OD2	1:B:451:GLU:OE2	2.37	0.43
1:B:122:LEU:O	1:B:126:GLU:HG2	2.19	0.42
1:B:192:HIS:CD2	1:B:192:HIS:C	2.97	0.42
1:B:209:CYS:HA	1:B:210:PRO:HD3	1.90	0.42
1:B:79:TRP:CZ2	1:B:85:ILE:HD11	2.55	0.42
1:B:243:LEU:HD12	1:B:243:LEU:HA	1.82	0.42
1:B:317:LYS:HE2	2:B:503:1JW:C03	2.50	0.41
1:B:449:PRO:O	1:B:453:MET:HG3	2.20	0.41
1:B:171:MET:HE2	1:B:476:LEU:HD21	2.02	0.41
1:B:192:HIS:CD2	1:B:228:ALA:HB2	2.55	0.41
1:B:342:LYS:HE2	1:B:342:LYS:HB3	1.80	0.41
1:A:333:PHE:CD1	1:A:396:PRO:HD3	2.56	0.41
1:A:410:PRO:CB	1:A:453:MET:HE3	2.51	0.41
1:B:251:GLY:HA3	1:B:276:LYS:HG3	2.03	0.40
1:A:375:HIS:HB3	1:A:378:ILE:HG12	2.02	0.40
1:B:333:PHE:CD1	1:B:396:PRO:HD3	2.56	0.40
1:B:313:TYR:OH	1:B:317:LYS:HD3	2.21	0.40

There are no symmetry-related clashes.

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	481/483 (100%)	465 (97%)	16 (3%)	0	100	100
1	B	477/483 (99%)	461 (97%)	16 (3%)	0	100	100
All	All	958/966 (99%)	926 (97%)	32 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	362/411 (88%)	362 (100%)	0	100	100
1	B	381/411 (93%)	379 (100%)	2 (0%)	81	87
All	All	743/822 (90%)	741 (100%)	2 (0%)	86	91

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	21	SER
1	B	240	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	455	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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](#)

Of 11 ligands modelled in this entry, 2 are monoatomic - leaving 9 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	1JW	B	501	-	7,7,8	0.17	0	6,6,8	0.62	0
2	1JW	A	502	-	8,8,8	0.26	0	7,8,8	0.51	0
2	1JW	B	504	-	8,8,8	0.32	0	7,8,8	0.27	0
2	1JW	B	505	-	7,7,8	0.26	0	6,7,8	0.35	0
2	1JW	A	505	-	8,8,8	0.33	0	7,8,8	0.69	0
2	1JW	A	503	-	6,6,8	0.43	0	4,6,8	0.86	0
2	1JW	A	501	-	8,8,8	0.26	0	7,8,8	0.37	0
2	1JW	B	503	-	8,8,8	0.26	0	7,8,8	0.55	0
2	1JW	B	502	-	6,6,8	0.30	0	4,6,8	0.50	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	1JW	B	501	-	-	3/5/5/7	-
2	1JW	A	502	-	-	0/7/7/7	-
2	1JW	B	504	-	-	6/7/7/7	-
2	1JW	B	505	-	-	5/6/6/7	-
2	1JW	A	505	-	-	4/7/7/7	-
2	1JW	A	503	-	-	4/5/5/7	-
2	1JW	A	501	-	-	5/7/7/7	-
2	1JW	B	503	-	-	2/7/7/7	-
2	1JW	B	502	-	-	2/5/5/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (31) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	1JW	C05-C06-C07-O08
2	A	503	1JW	C05-C06-C07-O08
2	B	502	1JW	C01-C05-C06-C07
2	B	502	1JW	C01-C05-C06-O09
2	B	505	1JW	C01-C05-C06-O09
2	B	503	1JW	C05-C01-C02-C03
2	A	501	1JW	O09-C06-C07-O08
2	A	501	1JW	C01-C05-C06-C07
2	A	501	1JW	C01-C05-C06-O09
2	A	503	1JW	C01-C05-C06-O09
2	B	505	1JW	C01-C05-C06-C07
2	B	504	1JW	C05-C06-C07-O08
2	B	504	1JW	O09-C06-C07-O08
2	B	505	1JW	C05-C01-C02-C03
2	A	503	1JW	O09-C06-C07-O08
2	A	503	1JW	C02-C01-C05-C06
2	B	503	1JW	C01-C02-C03-O04
2	B	504	1JW	C01-C02-C03-O04
2	B	501	1JW	C01-C02-C03-O04
2	A	505	1JW	C01-C05-C06-C07
2	A	505	1JW	C01-C05-C06-O09
2	B	504	1JW	C01-C05-C06-C07
2	B	504	1JW	C01-C05-C06-O09
2	A	505	1JW	C05-C06-C07-O08
2	B	505	1JW	C05-C06-C07-O08
2	B	501	1JW	C01-C05-C06-C07
2	B	501	1JW	C05-C01-C02-C03
2	A	505	1JW	C01-C02-C03-O04
2	A	501	1JW	C01-C02-C03-O04
2	B	505	1JW	O09-C06-C07-O08
2	B	504	1JW	C02-C01-C05-C06

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	501	1JW	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	503	1JW	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

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	474/483 (98%)	0.37	54 (11%)	10 9	22, 52, 129, 187	11 (2%)
1	B	477/483 (98%)	0.28	15 (3%)	51 50	35, 61, 100, 155	4 (0%)
All	All	951/966 (98%)	0.32	69 (7%)	21 19	22, 56, 117, 187	15 (1%)

All (69) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	218	ASN	5.6
1	B	188	ALA	5.2
1	A	196	PHE	4.7
1	A	208	PRO	4.7
1	A	205	TYR	4.5
1	A	232	LEU	4.5
1	A	200	LEU	4.4
1	B	190	ALA	4.4
1	A	240	ARG	4.3
1	B	371	ALA	4.3
1	A	279	TRP	4.2
1	A	211	TRP	4.2
1	B	339	PRO	4.1
1	A	193	ILE	4.1
1	A	199	TRP	4.0
1	A	194	GLU	3.8
1	B	372	ILE	3.5
1	A	228	ALA	3.4
1	B	189	PRO	3.3
1	A	201	ASP	3.3
1	A	267	PHE	3.2
1	A	282	VAL	3.2
1	A	227	THR	3.2
1	A	230	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	343	ALA	3.0
1	B	193	ILE	3.0
1	A	197	LYS	3.0
1	A	247	LEU	3.0
1	A	253	GLU	2.9
1	A	237	TYR	2.9
1	A	250	ILE	2.9
1	A	192	HIS	2.9
1	B	369	SER	2.8
1	A	483	ILE	2.7
1	A	226	VAL	2.7
1	B	244	LYS	2.7
1	B	483	ILE	2.7
1	A	217	LYS	2.6
1	A	222	THR	2.6
1	B	181	ILE	2.5
1	A	249	THR	2.5
1	A	254	VAL	2.4
1	A	291	ALA	2.4
1	A	207	ALA	2.4
1	B	191	LEU	2.4
1	A	283	ASP	2.4
1	A	219	LYS	2.4
1	A	275	PHE	2.4
1	A	181	ILE	2.4
1	A	268	CYS	2.4
1	A	234	ASN	2.3
1	A	482	GLY	2.3
1	A	206	THR	2.3
1	A	373	HIS	2.2
1	A	242	GLN	2.2
1	A	203	LYS	2.2
1	A	231	GLY	2.2
1	A	182	GLU	2.2
1	A	202	SER	2.2
1	A	224	LEU	2.2
1	B	49	ILE	2.1
1	A	204	ASP	2.1
1	A	246	GLU	2.1
1	B	241	ASP	2.1
1	A	233	VAL	2.1
1	A	340	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	372	ILE	2.0
1	A	195	ALA	2.0
1	A	210	PRO	2.0

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

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](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	1JW	A	503	7/9	0.76	0.21	47,55,61,74	0
2	1JW	B	505	8/9	0.78	0.22	64,78,86,98	0
2	1JW	B	503	9/9	0.80	0.16	73,80,84,89	0
2	1JW	A	502	9/9	0.81	0.17	52,59,68,75	9
2	1JW	B	502	7/9	0.82	0.20	55,62,69,74	0
2	1JW	A	505	9/9	0.84	0.16	57,64,73,85	0
3	NA	A	504	1/1	0.84	0.11	85,85,85,85	0
2	1JW	B	501	8/9	0.85	0.16	51,64,79,88	0
2	1JW	B	504	9/9	0.86	0.17	64,71,82,92	0
3	NA	B	506	1/1	0.94	0.12	63,63,63,63	0
2	1JW	A	501	9/9	0.97	0.08	42,43,46,47	9

6.5 Other polymers [i](#)

There are no such residues in this entry.