



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 17, 2026 – 10:36 PM UTC

PDB ID : 5LSF / pdb_00005lsf
Title : Sacbrood honeybee virus
Authors : Plevka, P.; Veselikova, M.
Deposited on : 2016-08-26
Resolution : 2.10 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

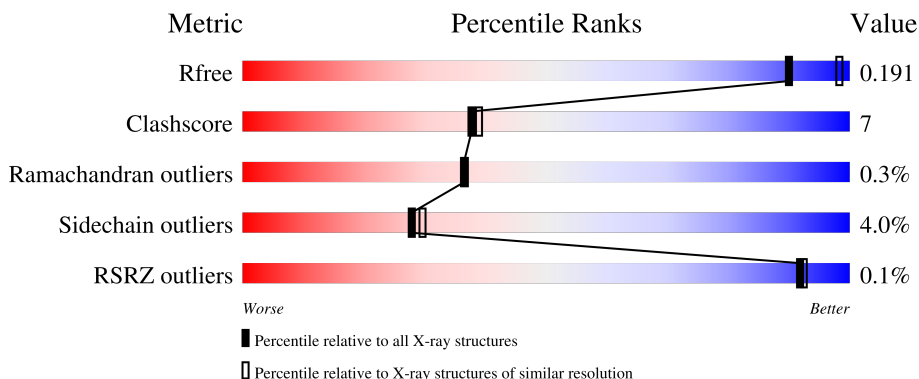
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	243	 83% 14% .
2	B	239	 79% 18% .
3	C	273	 81% 19%
4	D	26	 73% 27%

2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 6649 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 VP1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	243	Total	C	N	O	S	0	0	0
			1947	1240	324	372	11			

- Molecule 2 is a protein called VP2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	239	Total	C	N	O	S	0	0	0
			1897	1199	330	361	7			

- Molecule 3 is a protein called VP3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	273	Total	C	N	O	S	0	0	0
			2166	1375	371	414	6			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	43	ASP	GLU	variant	UNP I1U3P9

- Molecule 4 is a protein called VP4.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	D	26	Total	C	N	O	0	0	0
			220	139	42	39			

- Molecule 5 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Ca	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total 1	Ca 1	0	0

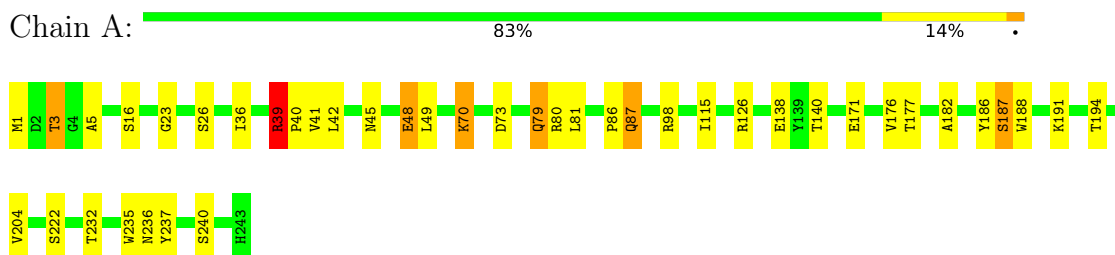
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	124	Total 124	O 124	0	0
6	B	134	Total 134	O 134	0	0
6	C	133	Total 133	O 133	0	0
6	D	26	Total 26	O 26	0	0

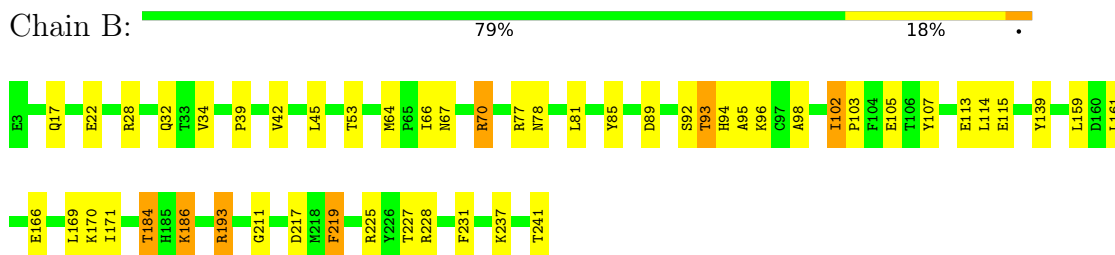
3 Residue-property plots

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.

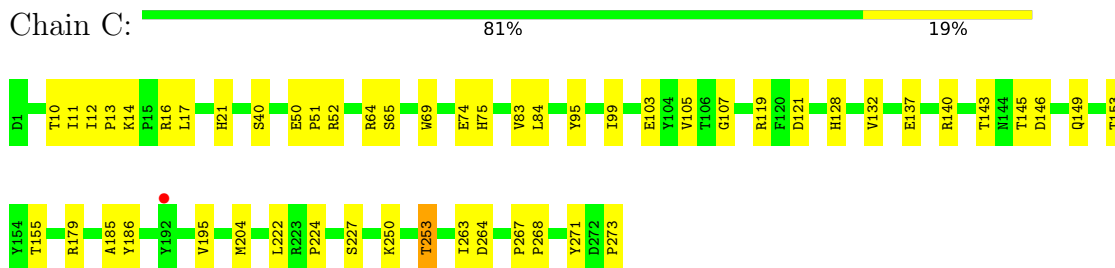
• Molecule 1: VP1



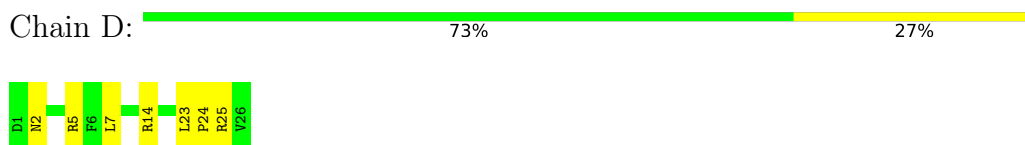
• Molecule 2: VP2



• Molecule 3: VP3



• Molecule 4: VP4



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	487.85Å 360.97Å 338.16Å 90.00° 133.07° 90.00°	Depositor
Resolution (Å)	50.00 – 2.10 50.00 – 2.10	Depositor EDS
% Data completeness (in resolution range)	63.6 (50.00-2.10) 54.2 (50.00-2.10)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.41 (at 2.10Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.194 , (Not available) 0.192 , 0.191	Depositor DCC
R_{free} test set	78912 reflections (3.19%)	wwPDB-VP
Wilson B-factor (Å ²)	23.4	Xtriage
Anisotropy	0.241	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 39.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.003 for k+l,h+l,-l 0.002 for -k+l,-h-l,-l 0.007 for -h-2*l,-k,l	Xtriage
F_o, F_c correlation	0.51	EDS
Total number of atoms	6649	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.59% 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

Bond lengths and bond angles in the following residue types are not validated in this section: CA

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	0.39	0/2003	0.96	11/2731 (0.4%)
2	B	0.43	1/1939 (0.1%)	1.00	9/2628 (0.3%)
3	C	0.40	0/2225	0.89	4/3032 (0.1%)
4	D	0.40	0/228	0.97	0/312
All	All	0.41	1/6395 (0.0%)	0.95	24/8703 (0.3%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	102	ILE	CA-CB	5.69	1.56	1.54

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	171	ILE	N-CA-C	8.05	116.22	107.60
1	A	188	TRP	N-CA-C	7.55	121.41	111.75
2	B	227	THR	N-CA-C	-6.94	104.96	113.50
3	C	21	HIS	N-CA-C	6.64	120.30	110.48
3	C	83	VAL	N-CA-C	-6.60	100.18	108.89
1	A	80	ARG	N-CA-C	6.53	121.08	113.18
2	B	184	THR	N-CA-C	-6.37	101.09	110.52
1	A	39	ARG	CA-C-N	6.29	126.32	119.90
1	A	39	ARG	C-N-CA	6.29	126.32	119.90
1	A	204	VAL	N-CA-C	-6.27	105.72	111.67
3	C	155	THR	N-CA-C	6.21	119.65	109.72
3	C	195	VAL	N-CA-C	6.04	117.89	109.55
1	A	177	THR	N-CA-C	6.02	117.51	111.07
2	B	96	LYS	N-CA-C	5.92	118.52	111.71
1	A	40	PRO	N-CA-C	5.78	120.28	111.15
1	A	237	TYR	N-CA-C	5.75	119.28	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	39	PRO	N-CA-C	5.73	120.00	111.41
1	A	48	GLU	N-CA-C	5.58	119.34	109.96
2	B	22	GLU	CB-CA-C	-5.55	110.19	116.63
1	A	240	SER	N-CA-C	-5.26	102.67	110.46
1	A	16	SER	N-CA-C	5.17	117.38	110.35
2	B	161	LEU	N-CA-C	5.03	119.17	113.19
2	B	219	PHE	N-CA-C	5.03	117.76	109.72
2	B	85	TYR	N-CA-C	-5.00	100.57	108.73

There are no chirality outliers.

There are no planarity outliers.

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	1947	0	1853	28	0
2	B	1897	0	1869	27	0
3	C	2166	0	2104	33	0
4	D	220	0	205	6	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
6	A	124	0	0	0	0
6	B	134	0	0	4	0
6	C	133	0	0	3	0
6	D	26	0	0	1	0
All	All	6649	0	6031	86	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 7.

All (86) 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:3:THR:HG22	1:A:5:ALA:H	1.36	0.91
3:C:250:LYS:NZ	3:C:253:THR:HG22	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:186:LYS:H	2:B:186:LYS:HZ3	1.31	0.78
2:B:89:ASP:HA	2:B:93:THR:HG23	1.68	0.76
3:C:253:THR:HG21	6:C:307:HOH:O	1.86	0.74
3:C:186:TYR:HB3	3:C:204:MET:HG3	1.70	0.74
3:C:13:PRO:O	3:C:14:LYS:HD2	1.91	0.71
3:C:271:TYR:O	3:C:273:PRO:HD3	1.91	0.70
4:D:14:ARG:HH11	4:D:14:ARG:HG3	1.54	0.70
2:B:45:LEU:HD11	2:B:53:THR:HG21	1.72	0.70
3:C:250:LYS:HZ1	3:C:253:THR:HG22	1.55	0.70
1:A:70:LYS:HB3	1:A:70:LYS:NZ	2.12	0.65
2:B:139:TYR:CE1	2:B:193:ARG:HG2	2.32	0.65
2:B:186:LYS:H	2:B:186:LYS:NZ	1.94	0.64
1:A:70:LYS:HB3	1:A:70:LYS:HZ3	1.61	0.64
3:C:267:PRO:N	3:C:268:PRO:HD3	2.13	0.62
4:D:14:ARG:HG3	4:D:14:ARG:NH1	2.17	0.60
2:B:70:ARG:HG2	2:B:219:PHE:CE2	2.37	0.59
3:C:250:LYS:HZ3	3:C:253:THR:HG22	1.67	0.58
1:A:79:GLN:OE1	1:A:81:LEU:HB2	2.04	0.56
3:C:264:ASP:OD2	4:D:5:ARG:NH2	2.39	0.56
1:A:182:ALA:HB1	3:C:263:ILE:HG22	1.89	0.55
1:A:36:ILE:O	1:A:39:ARG:HG2	2.07	0.55
2:B:92:SER:CB	2:B:241:THR:HB	2.37	0.54
1:A:86:PRO:HG3	3:C:250:LYS:O	2.08	0.54
3:C:267:PRO:N	3:C:268:PRO:CD	2.71	0.53
2:B:67:ASN:HB2	6:B:443:HOH:O	2.08	0.53
3:C:222:LEU:HG	3:C:224:PRO:HD3	1.91	0.53
2:B:34:VAL:CG1	2:B:170:LYS:HE3	2.39	0.53
3:C:107:GLY:CA	3:C:253:THR:HG23	2.39	0.52
3:C:74:GLU:H	3:C:74:GLU:CD	2.18	0.52
2:B:70:ARG:HD3	2:B:217:ASP:OD2	2.10	0.52
3:C:11:ILE:HD12	3:C:11:ILE:O	2.10	0.51
1:A:70:LYS:HB3	1:A:73:ASP:OD2	2.11	0.51
2:B:113:GLU:HB2	2:B:228:ARG:HB3	1.93	0.51
2:B:42:VAL:HA	6:B:401:HOH:O	2.11	0.51
2:B:92:SER:HB3	2:B:241:THR:HB	1.93	0.51
1:A:3:THR:HG22	1:A:5:ALA:N	2.18	0.50
2:B:64:MET:HE2	2:B:98:ALA:HB2	1.94	0.50
3:C:11:ILE:HD12	3:C:11:ILE:C	2.35	0.50
2:B:211:GLY:HA3	3:C:227:SER:O	2.13	0.48
2:B:28:ARG:HB3	2:B:166:GLU:CD	2.39	0.48
3:C:12:ILE:HD12	3:C:12:ILE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1:MET:HB2	3:C:51:PRO:HD3	1.95	0.48
1:A:23:GLY:HA2	1:A:26:SER:O	2.14	0.48
1:A:186:TYR:O	1:A:187:SER:C	2.56	0.48
1:A:41:VAL:CG2	1:A:87:GLN:CG	2.92	0.47
1:A:41:VAL:CG2	1:A:87:GLN:HG3	2.45	0.47
1:A:222:SER:HB2	3:C:50:GLU:OE2	2.15	0.46
4:D:23:LEU:N	4:D:24:PRO:CD	2.79	0.46
1:A:98:ARG:NH1	3:C:40:SER:O	2.48	0.46
2:B:70:ARG:CG	2:B:219:PHE:CE2	2.99	0.46
1:A:126:ARG:O	1:A:126:ARG:HD2	2.16	0.46
1:A:70:LYS:NZ	1:A:70:LYS:CB	2.78	0.46
3:C:119:ARG:HD2	3:C:121:ASP:OD1	2.16	0.46
2:B:94:HIS:O	2:B:95:ALA:C	2.59	0.45
3:C:128:HIS:CD2	3:C:224:PRO:HB3	2.51	0.45
2:B:102:ILE:HB	2:B:103:PRO:HD3	1.97	0.45
4:D:2:ASN:HB3	4:D:5:ARG:HG2	1.99	0.45
3:C:137:GLU:HG2	3:C:153:THR:HG21	1.98	0.45
2:B:184:THR:HG22	6:B:437:HOH:O	2.17	0.45
4:D:25:ARG:HD3	6:D:103:HOH:O	2.15	0.45
3:C:75:HIS:HB3	6:C:396:HOH:O	2.16	0.44
1:A:115:ILE:N	1:A:115:ILE:HD12	2.33	0.44
2:B:105:GLU:O	2:B:237:LYS:HA	2.18	0.43
2:B:67:ASN:ND2	6:B:403:HOH:O	2.51	0.43
3:C:146:ASP:CG	3:C:149:GLN:HG3	2.43	0.43
3:C:185:ALA:HA	3:C:250:LYS:HD2	2.01	0.43
1:A:232:THR:HG22	3:C:95:TYR:HB3	1.99	0.43
1:A:87:GLN:H	1:A:87:GLN:CD	2.28	0.42
2:B:107:TYR:CG	2:B:231:PHE:HB3	2.54	0.42
2:B:115:GLU:OE1	2:B:225:ARG:NH1	2.52	0.42
1:A:138:GLU:OE2	1:A:140:THR:OG1	2.37	0.42
3:C:143:THR:HG22	3:C:145:THR:H	1.84	0.42
1:A:41:VAL:HG21	1:A:87:GLN:CG	2.49	0.42
1:A:48:GLU:HG2	1:A:49:LEU:N	2.33	0.42
1:A:235:TRP:CG	1:A:236:ASN:N	2.87	0.42
3:C:99:ILE:HG13	3:C:103:GLU:HB2	2.00	0.42
2:B:139:TYR:CD1	2:B:193:ARG:HG2	2.55	0.42
3:C:69:TRP:CH2	3:C:132:VAL:HG13	2.55	0.41
2:B:219:PHE:CD1	2:B:219:PHE:N	2.89	0.41
3:C:64:ARG:NH2	6:C:301:HOH:O	2.51	0.41
2:B:77:ARG:O	2:B:78:ASN:CB	2.68	0.41
1:A:42:LEU:HD21	1:A:45:ASN:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:ARG:HG2	1:A:39:ARG:H	1.75	0.40
1:A:176:VAL:O	1:A:194:THR:HA	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 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 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	241/243 (99%)	234 (97%)	6 (2%)	1 (0%)	30	28
2	B	237/239 (99%)	221 (93%)	15 (6%)	1 (0%)	30	28
3	C	271/273 (99%)	261 (96%)	10 (4%)	0	100	100
4	D	24/26 (92%)	24 (100%)	0	0	100	100
All	All	773/781 (99%)	740 (96%)	31 (4%)	2 (0%)	36	36

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	187	SER
2	B	66	ILE

5.3.2 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 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	218/218 (100%)	211 (97%)	7 (3%)	34	38
2	B	209/209 (100%)	199 (95%)	10 (5%)	23	23
3	C	241/241 (100%)	231 (96%)	10 (4%)	27	29
4	D	24/24 (100%)	23 (96%)	1 (4%)	26	28
All	All	692/692 (100%)	664 (96%)	28 (4%)	28	29

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	THR
1	A	39	ARG
1	A	70	LYS
1	A	79	GLN
1	A	87	GLN
1	A	171	GLU
1	A	191	LYS
2	B	17	GLN
2	B	32	GLN
2	B	70	ARG
2	B	81	LEU
2	B	93	THR
2	B	114	LEU
2	B	159	LEU
2	B	169	LEU
2	B	186	LYS
2	B	193	ARG
3	C	10	THR
3	C	16	ARG
3	C	17	LEU
3	C	52	ARG
3	C	65	SER
3	C	84	LEU
3	C	105	VAL
3	C	140	ARG
3	C	179	ARG
3	C	253	THR
4	D	7	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	14	ASN
2	B	67	ASN
2	B	145	ASN
2	B	209	GLN

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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	243/243 (100%)	-0.37	0 100 100	16, 22, 38, 65	0
2	B	239/239 (100%)	-0.40	0 100 100	16, 23, 37, 59	0
3	C	273/273 (100%)	-0.37	1 (0%) 88 90	15, 23, 40, 57	0
4	D	26/26 (100%)	-0.12	0 100 100	20, 28, 38, 53	0
All	All	781/781 (100%)	-0.37	1 (0%) 92 92	15, 23, 39, 65	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	C	192	TYR	2.3

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
5	CA	A	301	1/1	0.99	0.07	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	CA	B	301	1/1	0.99	0.07	66,66,66,66	0

6.5 Other polymers [i](#)

There are no such residues in this entry.