



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 03:00 AM UTC

PDB ID : 4LAD / pdb_00004lad
Title : Crystal Structure of the Ube2g2:RING-G2BR complex
Authors : Liang, Y.-H.; Li, J.; Das, R.; Byrd, R.A.; Ji, X.
Deposited on : 2013-06-19
Resolution : 2.30 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 : 2022.3.0, CSD as543be (2022)
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

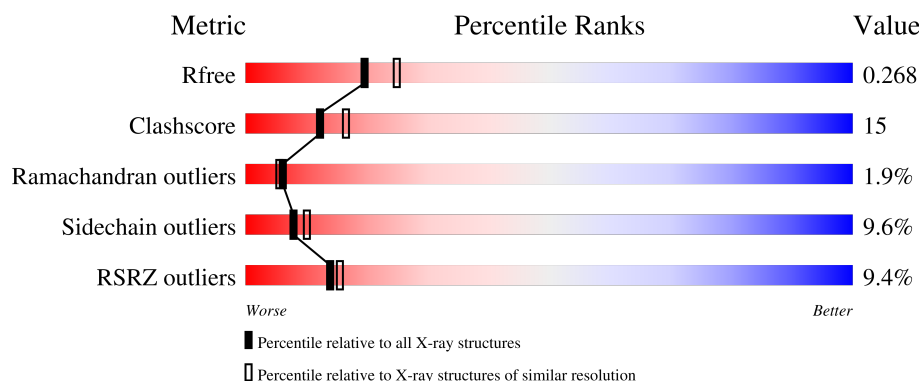
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	165	
2	B	150	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	OXL	B	703	-	X	-	-
4	OXL	B	704	-	X	-	-

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 1844 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 Ubiquitin-conjugating enzyme E2 G2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	154	Total	C	N	O	S	0	1	0
			1231	792	199	230	10			

- Molecule 2 is a protein called E3 ubiquitin-protein ligase AMFR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	69	Total	C	N	O	S	0	0	0
			560	339	110	102	9			

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	311	HIS	-	expression tag	UNP Q9UKV5
B	312	MET	-	expression tag	UNP Q9UKV5
B	534	GLY	-	linker	UNP Q9UKV5
B	535	GLY	-	linker	UNP Q9UKV5
B	536	GLY	-	linker	UNP Q9UKV5
B	537	GLY	-	linker	UNP Q9UKV5
B	538	GLY	-	linker	UNP Q9UKV5
B	539	GLY	-	linker	UNP Q9UKV5
B	540	GLY	-	linker	UNP Q9UKV5
B	541	SER	-	linker	UNP Q9UKV5
B	542	SER	-	linker	UNP Q9UKV5
B	543	GLY	-	linker	UNP Q9UKV5
B	544	SER	-	linker	UNP Q9UKV5
B	545	SER	-	linker	UNP Q9UKV5
B	546	GLY	-	linker	UNP Q9UKV5
B	547	GLY	-	linker	UNP Q9UKV5
B	548	SER	-	linker	UNP Q9UKV5
B	549	GLY	-	linker	UNP Q9UKV5
B	550	GLY	-	linker	UNP Q9UKV5
B	551	GLY	-	linker	UNP Q9UKV5

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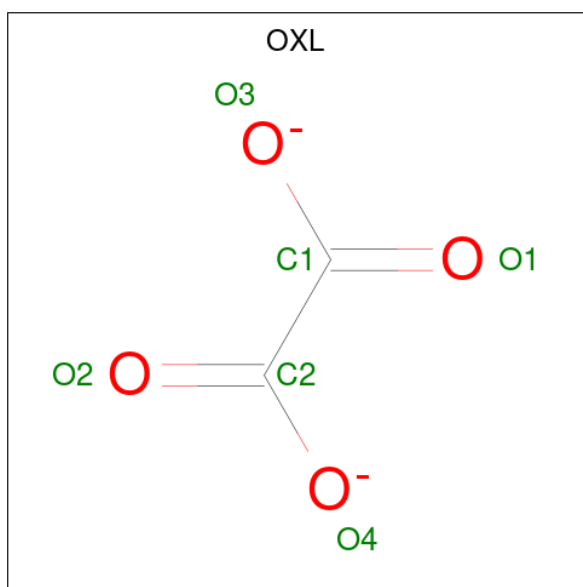
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Chain	Residue	Modelled	Actual	Comment	Reference
B	552	SER	-	linker	UNP Q9UKV5
B	553	GLY	-	linker	UNP Q9UKV5
B	554	SER	-	linker	UNP Q9UKV5
B	555	SER	-	linker	UNP Q9UKV5
B	556	SER	-	linker	UNP Q9UKV5
B	557	GLY	-	linker	UNP Q9UKV5
B	558	GLY	-	linker	UNP Q9UKV5
B	559	GLY	-	linker	UNP Q9UKV5
B	560	GLY	-	linker	UNP Q9UKV5
B	561	GLY	-	linker	UNP Q9UKV5
B	562	SER	-	linker	UNP Q9UKV5
B	563	GLY	-	linker	UNP Q9UKV5
B	564	GLY	-	linker	UNP Q9UKV5
B	565	GLY	-	linker	UNP Q9UKV5
B	566	SER	-	linker	UNP Q9UKV5
B	567	GLY	-	linker	UNP Q9UKV5
B	568	GLY	-	linker	UNP Q9UKV5
B	569	GLY	-	linker	UNP Q9UKV5
B	570	GLY	-	linker	UNP Q9UKV5
B	571	GLY	-	linker	UNP Q9UKV5
B	572	GLY	-	linker	UNP Q9UKV5
B	573	GLY	-	linker	UNP Q9UKV5

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	2	Total Zn 2 2	0	0

- Molecule 4 is OXALATE ION (CCD ID: OXL) (formula: C₂O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total	C	O	0	0
			6	2	4		
4	B	1	Total	C	O	0	0
			6	2	4		

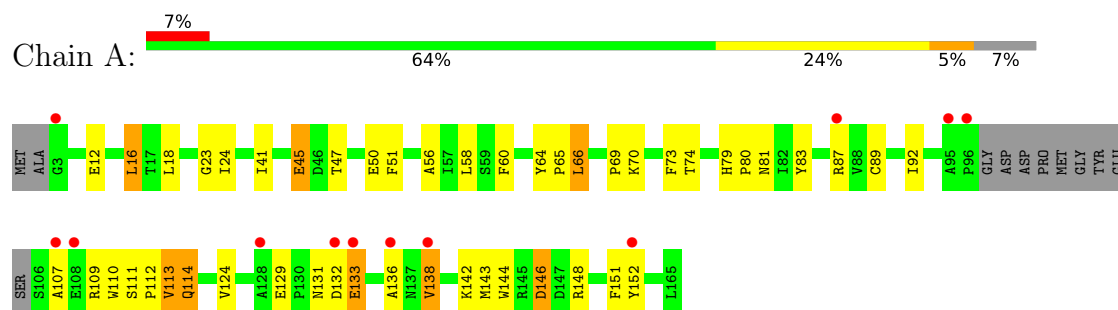
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	26	Total	O	0	0
			26	26		
5	B	13	Total	O	0	0
			13	13		

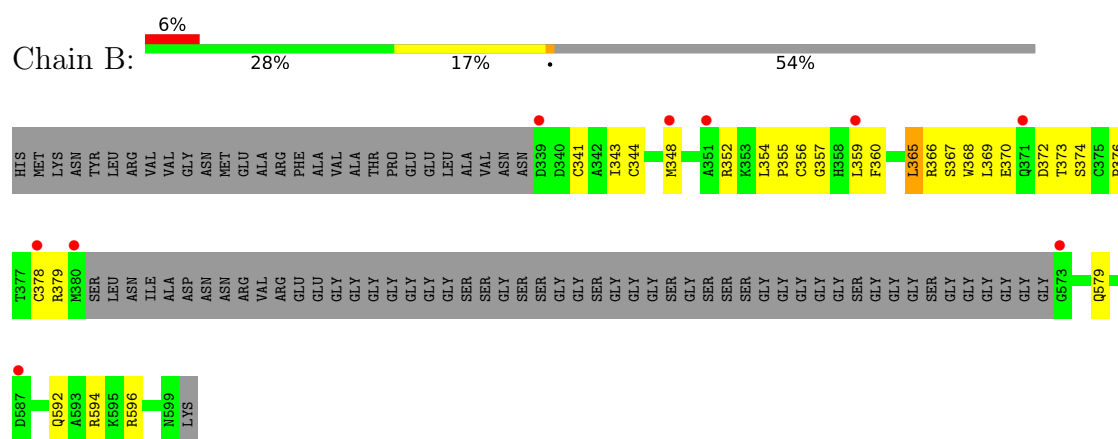
3 Residue-property plots [i](#)

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: Ubiquitin-conjugating enzyme E2 G2



- Molecule 2: E3 ubiquitin-protein ligase AMFR



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	58.25Å 58.25Å 158.43Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.12 – 2.30 39.12 – 2.30	Depositor EDS
% Data completeness (in resolution range)	97.0 (39.12-2.30) 97.1 (39.12-2.30)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.11 (at 2.29Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.226 , 0.281 0.217 , 0.268	Depositor DCC
R_{free} test set	1000 reflections (8.00%)	wwPDB-VP
Wilson B-factor (Å ²)	56.1	Xtriage
Anisotropy	0.409	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 41.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	1844	wwPDB-VP
Average B, all atoms (Å ²)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.84% 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: OXL, ZN

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	0.59	0/1264	0.90	2/1713 (0.1%)
2	B	0.54	0/568	0.86	0/759
All	All	0.57	0/1832	0.89	2/2472 (0.1%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	129	GLU	CA-C-N	5.29	125.28	119.89
1	A	129	GLU	C-N-CA	5.29	125.28	119.89

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	1231	0	1204	43	0
2	B	560	0	540	18	0
3	B	2	0	0	0	0
4	B	12	0	0	0	0
5	A	26	0	0	0	0
5	B	13	0	0	1	0
All	All	1844	0	1744	55	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 15.

All (55) 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:83:TYR:CE2	1:A:89:CYS:SG	2.46	1.06
1:A:83:TYR:HE2	1:A:89:CYS:SG	1.79	1.05
1:A:70:LYS:HB3	1:A:87:ARG:HH12	1.37	0.89
1:A:83:TYR:HE2	1:A:89:CYS:HG	0.87	0.87
1:A:66:LEU:HD21	2:B:367:SER:HB3	1.59	0.84
1:A:45:GLU:H	1:A:45:GLU:CD	1.90	0.78
1:A:51:PHE:HE1	2:B:596:ARG:HH11	1.33	0.74
1:A:51:PHE:HE1	2:B:596:ARG:NH1	1.91	0.69
1:A:92:ILE:HD11	1:A:114:GLN:HG2	1.76	0.68
1:A:83:TYR:CE1	1:A:136:ALA:HA	2.28	0.67
1:A:51:PHE:CE1	2:B:596:ARG:NH1	2.64	0.66
1:A:45:GLU:HA	1:A:50:GLU:HG3	1.79	0.65
1:A:133:GLU:HG3	1:A:133:GLU:O	1.96	0.64
2:B:594:ARG:HD2	5:B:809:HOH:O	1.97	0.64
1:A:81:ASN:HD21	1:A:131:ASN:HB2	1.66	0.61
1:A:24:ILE:HD11	1:A:124:VAL:HG21	1.84	0.59
1:A:58:LEU:HD12	1:A:58:LEU:N	2.18	0.58
1:A:143:MET:HG2	1:A:151:PHE:HB2	1.86	0.57
2:B:368:TRP:CD1	2:B:376:PRO:HG3	2.38	0.57
1:A:111:SER:OG	1:A:113:VAL:HG12	2.08	0.54
1:A:114:GLN:N	1:A:114:GLN:HE21	2.05	0.54
2:B:378:CYS:O	2:B:379:ARG:HG2	2.08	0.54
2:B:365:LEU:HD22	2:B:369:LEU:HG	1.88	0.53
1:A:70:LYS:HB3	1:A:87:ARG:NH1	2.14	0.53
1:A:148:ARG:HG3	1:A:152:TYR:CE2	2.43	0.52
1:A:133:GLU:O	1:A:133:GLU:CG	2.57	0.52
1:A:79:HIS:ND1	1:A:80:PRO:HD2	2.25	0.52
2:B:372:ASP:OD1	2:B:374:SER:HB2	2.10	0.52
1:A:47:THR:O	1:A:50:GLU:HB2	2.10	0.51
1:A:112:PRO:HD3	2:B:368:TRP:CZ3	2.47	0.50
2:B:341:CYS:O	2:B:344:CYS:O	2.29	0.49
1:A:144:TRP:O	1:A:148:ARG:NE	2.38	0.49
1:A:12:GLU:O	1:A:16:LEU:HB2	2.13	0.49
1:A:23:GLY:C	1:A:24:ILE:HD12	2.37	0.49
1:A:50:GLU:HG2	1:A:51:PHE:CD2	2.49	0.47
2:B:352:ARG:NH2	2:B:366:ARG:HE	2.12	0.47
1:A:41:ILE:N	1:A:41:ILE:HD12	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:ASP:N	1:A:146:ASP:OD1	2.47	0.46
2:B:354:LEU:HB3	2:B:355:PRO:HD2	1.98	0.45
1:A:60:PHE:CD1	1:A:69:PRO:HB3	2.52	0.45
1:A:138:VAL:O	1:A:142:LYS:HG3	2.16	0.45
1:A:50:GLU:HG2	1:A:51:PHE:CE2	2.53	0.44
2:B:352:ARG:NH2	2:B:366:ARG:HH21	2.15	0.44
1:A:87:ARG:HH11	1:A:87:ARG:HG3	1.82	0.44
1:A:56:ALA:HB2	1:A:73:PHE:CD1	2.52	0.43
1:A:131:ASN:HD22	1:A:131:ASN:N	2.17	0.43
1:A:51:PHE:CE1	2:B:596:ARG:HB3	2.54	0.42
1:A:79:HIS:HA	1:A:80:PRO:HD3	1.86	0.42
1:A:110:TRP:CZ3	1:A:114:GLN:HB3	2.54	0.42
1:A:92:ILE:HD11	1:A:114:GLN:CG	2.47	0.42
2:B:354:LEU:N	2:B:354:LEU:HD12	2.35	0.41
2:B:355:PRO:O	2:B:357:GLY:N	2.54	0.41
2:B:355:PRO:C	2:B:357:GLY:H	2.28	0.41
1:A:64:TYR:CD1	1:A:65:PRO:HA	2.55	0.41
1:A:83:TYR:HD2	1:A:87:ARG:HB3	1.86	0.41

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	151/165 (92%)	139 (92%)	10 (7%)	2 (1%)	9	10
2	B	65/150 (43%)	55 (85%)	8 (12%)	2 (3%)	3	2
All	All	216/315 (69%)	194 (90%)	18 (8%)	4 (2%)	6	5

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	107	ALA
2	B	356	CYS
1	A	109	ARG
2	B	343	ILE

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	136/143 (95%)	125 (92%)	11 (8%)	11	14
2	B	62/109 (57%)	54 (87%)	8 (13%)	4	4
All	All	198/252 (79%)	179 (90%)	19 (10%)	8	10

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	LEU
1	A	18	LEU
1	A	45	GLU
1	A	66	LEU
1	A	74	THR
1	A	113	VAL
1	A	114	GLN
1	A	132	ASP
1	A	133	GLU
1	A	138	VAL
1	A	146	ASP
2	B	348	MET
2	B	359	LEU
2	B	360	PHE
2	B	365	LEU
2	B	370	GLU
2	B	373	THR
2	B	579	GLN
2	B	592	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	114	GLN
1	A	131	ASN
1	A	150	GLN
2	B	362	ASN
2	B	592	GLN
2	B	599	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](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	$\# Z > 2$
4	OXL	B	704	-	5,5,5	1.98	3 (60%)	6,6,6	2.09	2 (33%)
4	OXL	B	703	-	5,5,5	1.83	3 (60%)	6,6,6	2.71	3 (50%)

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
4	OXL	B	704	-	-	4/4/4/4	-
4	OXL	B	703	-	-	4/4/4/4	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	704	OXL	O2-C2	2.58	1.28	1.22
4	B	704	OXL	O1-C1	2.57	1.28	1.22
4	B	703	OXL	O2-C2	2.55	1.28	1.22
4	B	703	OXL	O1-C1	2.32	1.28	1.22
4	B	704	OXL	C2-C1	-2.25	1.50	1.54
4	B	703	OXL	C2-C1	-2.02	1.51	1.54

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	703	OXL	O3-C1-C2	4.30	121.17	112.83
4	B	703	OXL	O4-C2-C1	4.22	121.02	112.83
4	B	704	OXL	O3-C1-C2	3.25	119.14	112.83
4	B	704	OXL	O4-C2-C1	2.98	118.61	112.83
4	B	703	OXL	O3-C1-O1	-2.07	118.97	123.90

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	704	OXL	O3-C1-C2-O4
4	B	703	OXL	O3-C1-C2-O4
4	B	703	OXL	O1-C1-C2-O2
4	B	704	OXL	O1-C1-C2-O2
4	B	704	OXL	O1-C1-C2-O4
4	B	704	OXL	O3-C1-C2-O2
4	B	703	OXL	O1-C1-C2-O4
4	B	703	OXL	O3-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

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	154/165 (93%)	0.39	12 (7%) 19 21	29, 53, 80, 99	1 (0%)
2	B	69/150 (46%)	0.82	9 (13%) 7 8	45, 73, 95, 98	0
All	All	223/315 (70%)	0.53	21 (9%) 14 15	29, 57, 89, 99	1 (0%)

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	96	PRO	3.4
2	B	380	MET	3.3
1	A	108	GLU	3.1
1	A	128	ALA	3.1
2	B	587	ASP	3.0
1	A	133	GLU	2.9
2	B	359	LEU	2.9
2	B	371	GLN	2.7
1	A	132	ASP	2.7
1	A	95	ALA	2.5
2	B	339	ASP	2.5
2	B	378	CYS	2.5
1	A	152	TYR	2.4
2	B	348	MET	2.4
1	A	138	VAL	2.3
1	A	3	GLY	2.3
2	B	573	GLY	2.3
2	B	351	ALA	2.2
1	A	87	ARG	2.1
1	A	136	ALA	2.1
1	A	107	ALA	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($\text{\AA}^2$)	Q<0.9
4	OXL	B	704	6/6	0.71	0.08	78,85,89,90	0
4	OXL	B	703	6/6	0.84	0.13	75,76,76,77	0
3	ZN	B	701	1/1	0.98	0.04	61,61,61,61	0
3	ZN	B	702	1/1	0.98	0.04	82,82,82,82	0

6.5 Other polymers [i](#)

There are no such residues in this entry.