



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:52 AM GMT

PDB ID : 3K17
Title : Crystal structure of a Lin0012 protein from *Listeria innocua*
Authors : Palani, K.; Burley, S.K.; Swaminathan, S.; New York SGX Research Center
for Structural Genomics (NYSGXRC)
Deposited on : 2009-09-25
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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

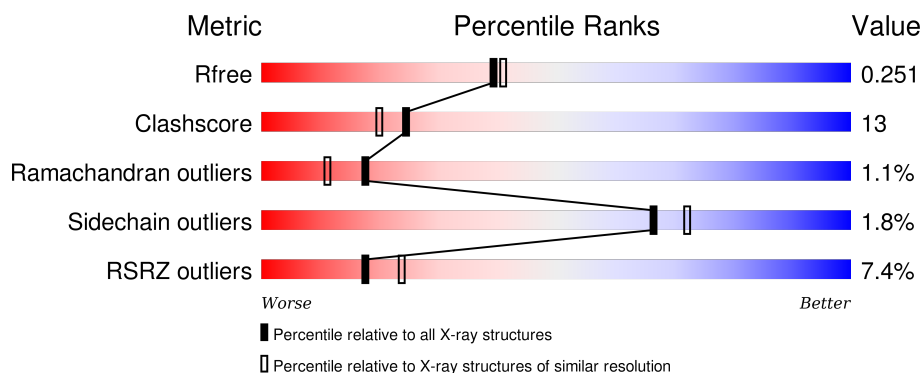
1 Overall quality at a glance

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}	91344	3939 (2.10-2.10)
Clashscore	102246	4460 (2.10-2.10)
Ramachandran outliers	100387	4413 (2.10-2.10)
Sidechain outliers	100360	4414 (2.10-2.10)
RSRZ outliers	91569	3948 (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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	365	<div> <div></div> <div>79%17%..</div> </div>
1	B	365	<div> <div>7%</div> <div>69%26%..</div> </div>
1	C	365	<div> <div>3%</div> <div>72%23%..</div> </div>
1	D	365	<div> <div>17%</div> <div>69%25%..</div> </div>

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
2	PGE	A	1	-	-	-	X

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 11491 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 Lin0012 protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	355	Total	C	N	O	S	Se	0	0	0
			2774	1776	459	528	3	8			
1	B	355	Total	C	N	O	S	Se	0	0	0
			2774	1776	459	528	3	8			
1	C	355	Total	C	N	O	S	Se	0	0	0
			2774	1776	459	528	3	8			
1	D	355	Total	C	N	O	S	Se	0	0	0
			2774	1776	459	528	3	8			

There are 40 discrepancies between the modelled and reference sequences:

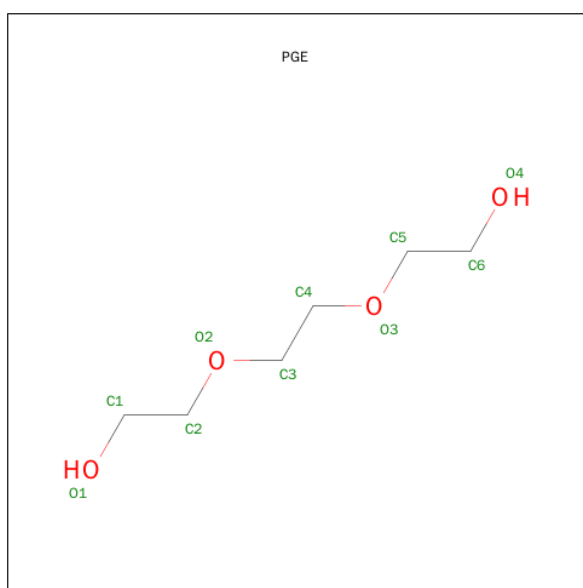
Chain	Residue	Modelled	Actual	Comment	Reference
A	3	MSE	-	EXPRESSION TAG	UNP Q92FU1
A	4	SER	-	EXPRESSION TAG	UNP Q92FU1
A	5	LEU	-	EXPRESSION TAG	UNP Q92FU1
A	361	GLY	-	EXPRESSION TAG	UNP Q92FU1
A	362	HIS	-	EXPRESSION TAG	UNP Q92FU1
A	363	HIS	-	EXPRESSION TAG	UNP Q92FU1
A	364	HIS	-	EXPRESSION TAG	UNP Q92FU1
A	365	HIS	-	EXPRESSION TAG	UNP Q92FU1
A	366	HIS	-	EXPRESSION TAG	UNP Q92FU1
A	367	HIS	-	EXPRESSION TAG	UNP Q92FU1
B	3	MSE	-	EXPRESSION TAG	UNP Q92FU1
B	4	SER	-	EXPRESSION TAG	UNP Q92FU1
B	5	LEU	-	EXPRESSION TAG	UNP Q92FU1
B	361	GLY	-	EXPRESSION TAG	UNP Q92FU1
B	362	HIS	-	EXPRESSION TAG	UNP Q92FU1
B	363	HIS	-	EXPRESSION TAG	UNP Q92FU1
B	364	HIS	-	EXPRESSION TAG	UNP Q92FU1
B	365	HIS	-	EXPRESSION TAG	UNP Q92FU1
B	366	HIS	-	EXPRESSION TAG	UNP Q92FU1
B	367	HIS	-	EXPRESSION TAG	UNP Q92FU1
C	3	MSE	-	EXPRESSION TAG	UNP Q92FU1

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
C	4	SER	-	EXPRESSION TAG	UNP Q92FU1
C	5	LEU	-	EXPRESSION TAG	UNP Q92FU1
C	361	GLY	-	EXPRESSION TAG	UNP Q92FU1
C	362	HIS	-	EXPRESSION TAG	UNP Q92FU1
C	363	HIS	-	EXPRESSION TAG	UNP Q92FU1
C	364	HIS	-	EXPRESSION TAG	UNP Q92FU1
C	365	HIS	-	EXPRESSION TAG	UNP Q92FU1
C	366	HIS	-	EXPRESSION TAG	UNP Q92FU1
C	367	HIS	-	EXPRESSION TAG	UNP Q92FU1
D	3	MSE	-	EXPRESSION TAG	UNP Q92FU1
D	4	SER	-	EXPRESSION TAG	UNP Q92FU1
D	5	LEU	-	EXPRESSION TAG	UNP Q92FU1
D	361	GLY	-	EXPRESSION TAG	UNP Q92FU1
D	362	HIS	-	EXPRESSION TAG	UNP Q92FU1
D	363	HIS	-	EXPRESSION TAG	UNP Q92FU1
D	364	HIS	-	EXPRESSION TAG	UNP Q92FU1
D	365	HIS	-	EXPRESSION TAG	UNP Q92FU1
D	366	HIS	-	EXPRESSION TAG	UNP Q92FU1
D	367	HIS	-	EXPRESSION TAG	UNP Q92FU1

- Molecule 2 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			10	6	4		

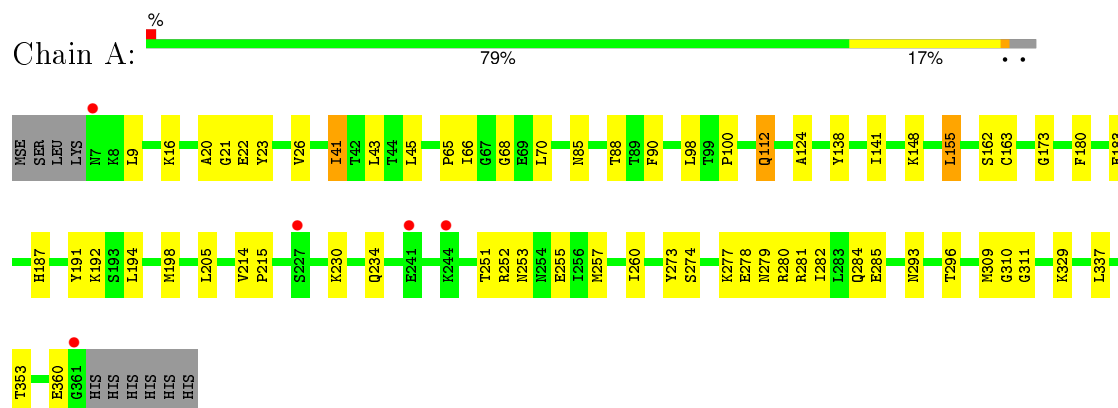
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	128	Total 128	O 128	0	0
3	B	69	Total 69	O 69	0	0
3	C	124	Total 124	O 124	0	0
3	D	64	Total 64	O 64	0	0

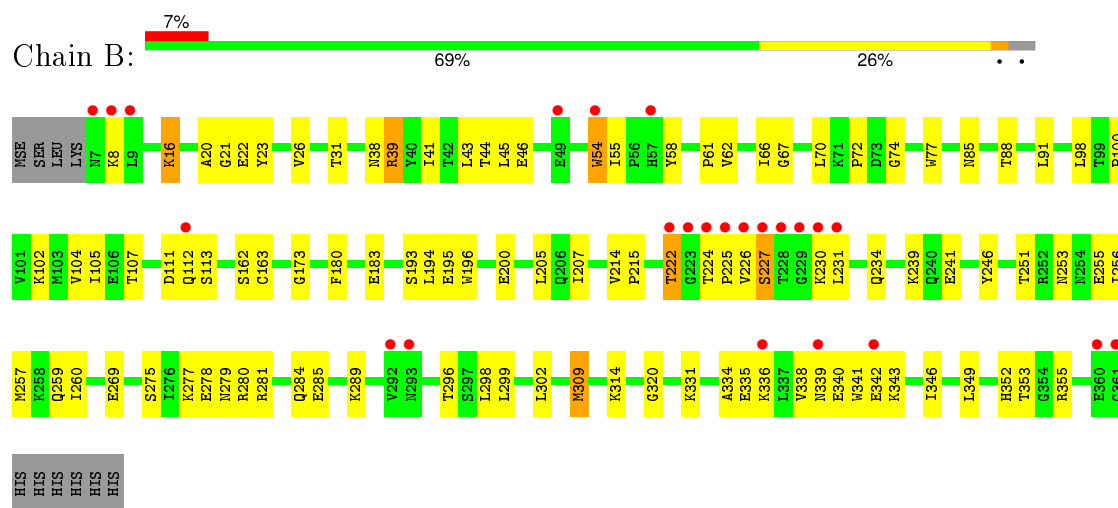
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

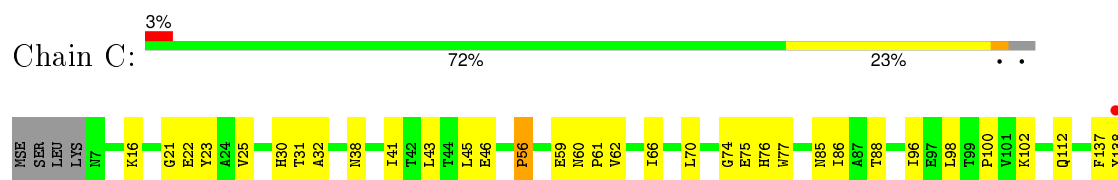
• Molecule 1: Lin0012 protein

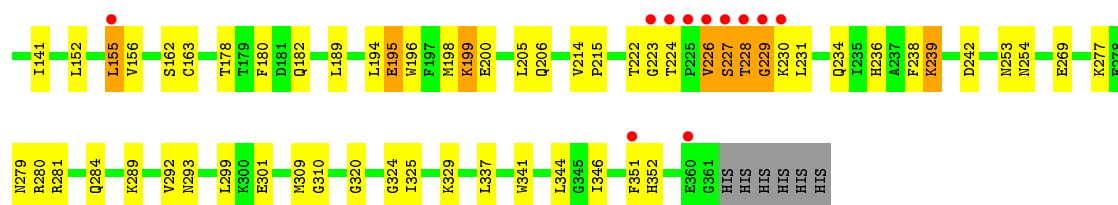


• Molecule 1: Lin0012 protein

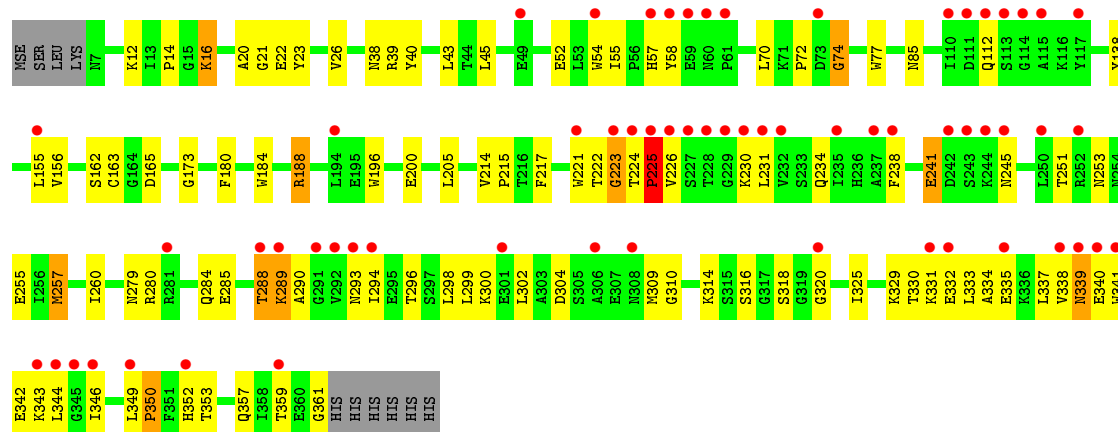


• Molecule 1: Lin0012 protein





● Molecule 1: Lin0012 protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	105.97Å 122.36Å 138.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.06 – 2.10 43.06 – 2.09	Depositor EDS
% Data completeness (in resolution range)	96.3 (43.06-2.10) 95.8 (43.06-2.09)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.00 (at 2.10Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.223 , 0.252 0.222 , 0.251	Depositor DCC
R_{free} test set	5099 reflections (5.04%)	DCC
Wilson B-factor (Å ²)	26.9	Xtriage
Anisotropy	0.285	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 53.9	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 105386 reflections	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	11491	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.73% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: PGE

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	0.34	0/2829	0.59	1/3818 (0.0%)
1	B	0.30	0/2829	0.55	0/3818
1	C	0.34	0/2829	0.62	2/3818 (0.1%)
1	D	0.29	0/2829	0.55	0/3818
All	All	0.32	0/11316	0.58	3/15272 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	41	ILE	N-CA-C	-5.52	96.11	111.00
1	A	41	ILE	N-CA-C	-5.30	96.69	111.00
1	C	324	GLY	N-CA-C	-5.19	100.11	113.10

There are no chirality outliers.

There are no planarity outliers.

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	2774	0	2762	50	0
1	B	2774	0	2762	86	0
1	C	2774	0	2762	71	0
1	D	2774	0	2762	80	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	10	0	14	4	0
3	A	128	0	0	0	0
3	B	69	0	0	1	0
3	C	124	0	0	2	0
3	D	64	0	0	0	0
All	All	11491	0	11062	285	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 13.

All (285) 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:C:226:VAL:HG22	1:C:227:SER:H	1.20	1.01
1:D:245:ASN:HD22	1:D:289:LYS:HD2	1.22	1.01
1:D:257:MSE:HE2	1:D:260:ILE:HG21	1.41	0.98
1:C:21:GLY:HA2	1:C:253:ASN:HD21	1.37	0.90
1:A:70:LEU:H	1:A:85:ASN:HD21	1.18	0.88
1:C:70:LEU:H	1:C:85:ASN:HD21	1.23	0.84
1:B:70:LEU:H	1:B:85:ASN:HD21	1.25	0.82
1:C:21:GLY:H	1:C:279:ASN:HD21	1.26	0.81
1:D:245:ASN:ND2	1:D:289:LYS:HD2	1.95	0.81
1:D:70:LEU:H	1:D:85:ASN:HD21	1.28	0.81
1:B:331:LYS:O	1:B:335:GLU:HG3	1.83	0.78
1:A:9:LEU:HD13	1:A:360:GLU:HG2	1.66	0.77
1:A:20:ALA:HB1	1:A:257:MSE:HE1	1.66	0.76
1:D:39:ARG:HH21	1:D:349:LEU:HB3	1.49	0.75
1:A:41:ILE:HD12	1:A:124:ALA:HB3	1.67	0.75
1:D:296:THR:H	1:D:299:LEU:HD12	1.50	0.75
1:C:226:VAL:HG22	1:C:227:SER:N	2.00	0.75
1:D:184:TRP:O	1:D:188:ARG:HD2	1.86	0.75
1:B:21:GLY:HA2	1:B:253:ASN:HD21	1.51	0.74
1:A:21:GLY:HA2	1:A:253:ASN:HD21	1.52	0.74
1:A:21:GLY:H	1:A:279:ASN:HD21	1.36	0.73
1:D:257:MSE:HE2	1:D:260:ILE:CG2	2.18	0.73
1:D:257:MSE:HA	1:D:257:MSE:HE3	1.69	0.72
1:D:21:GLY:HA2	1:D:253:ASN:HD21	1.54	0.72
1:C:289:LYS:HE3	3:C:427:HOH:O	1.88	0.72
1:C:277:LYS:O	1:C:281:ARG:HG2	1.91	0.71
1:C:309:MSE:HE3	1:C:337:LEU:HA	1.72	0.70
1:B:21:GLY:H	1:B:279:ASN:HD21	1.38	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:277:LYS:O	1:A:281:ARG:HG2	1.92	0.70
1:A:310:GLY:O	1:A:329:LYS:HE3	1.92	0.69
1:D:257:MSE:HA	1:D:257:MSE:CE	2.23	0.68
1:C:178:THR:HB	1:C:206:GLN:HB2	1.77	0.67
1:A:194:LEU:H	2:A:1:PGE:H22	1.59	0.67
1:A:194:LEU:N	2:A:1:PGE:H22	2.10	0.67
1:C:30:HIS:CD2	1:C:254:ASN:HD21	2.13	0.67
1:D:279:ASN:ND2	1:D:314:LYS:HE3	2.08	0.67
1:A:230:LYS:HD2	1:B:241:GLU:OE2	1.96	0.66
1:A:281:ARG:O	1:A:285:GLU:HG2	1.96	0.66
1:B:8:LYS:HB3	1:B:46:GLU:HB3	1.79	0.65
1:A:230:LYS:O	1:A:234:GLN:HG3	1.95	0.65
1:C:222:THR:O	1:C:224:THR:N	2.31	0.63
1:C:196:TRP:CH2	1:C:200:GLU:HG2	2.34	0.63
1:A:183:GLU:HG2	1:A:187:HIS:CE1	2.34	0.63
1:B:340:GLU:HA	1:B:343:LYS:HE2	1.82	0.62
1:A:41:ILE:HD12	1:A:124:ALA:CB	2.29	0.62
1:D:329:LYS:HB2	1:D:333:LEU:HD12	1.81	0.62
1:B:309:MSE:HA	1:B:309:MSE:HE3	1.82	0.62
1:D:196:TRP:CH2	1:D:200:GLU:HG2	2.36	0.61
1:C:155:LEU:HD12	1:C:155:LEU:C	2.21	0.61
1:B:173:GLY:HA2	1:B:353:THR:CG2	2.30	0.61
1:A:173:GLY:HA2	1:A:353:THR:CG2	2.30	0.60
1:B:16:LYS:C	1:B:16:LYS:HD2	2.22	0.60
1:D:180:PHE:HB3	1:D:205:LEU:HB2	1.84	0.60
1:D:52:GLU:CD	1:D:54:TRP:HE1	2.05	0.60
1:D:334:ALA:O	1:D:338:VAL:HG23	2.00	0.60
1:D:23:TYR:O	1:D:26:VAL:HG22	2.02	0.59
1:A:88:THR:HG23	1:A:98:LEU:CD1	2.32	0.59
1:D:332:GLU:CD	1:D:332:GLU:H	2.05	0.59
1:C:195:GLU:O	1:C:199:LYS:HD2	2.02	0.58
1:B:277:LYS:O	1:B:281:ARG:HG2	2.01	0.58
1:B:38:ASN:HB3	1:B:352:HIS:HB2	1.85	0.58
1:B:336:LYS:O	1:B:339:ASN:HB3	2.03	0.58
1:B:180:PHE:HB3	1:B:205:LEU:HB2	1.86	0.58
1:D:285:GLU:O	1:D:289:LYS:HG2	2.04	0.58
1:B:54:TRP:CZ3	1:B:102:LYS:HE3	2.39	0.58
1:A:280:ARG:O	1:A:284:GLN:HG3	2.03	0.58
1:C:66:ILE:HD13	1:C:100:PRO:HD3	1.86	0.57
1:C:155:LEU:HD12	1:C:156:VAL:N	2.19	0.57
1:B:260:ILE:HG12	1:B:275:SER:HB3	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:222:THR:CG2	1:B:299:LEU:HD23	2.33	0.57
1:B:23:TYR:O	1:B:26:VAL:HG22	2.04	0.57
1:D:221:TRP:CE2	1:D:223:GLY:HA2	2.38	0.57
1:D:309:MSE:HE3	1:D:337:LEU:N	2.20	0.57
1:B:285:GLU:HG3	1:B:289:LYS:HE3	1.86	0.57
1:B:162:SER:O	1:B:163:CYS:HB2	2.05	0.57
1:B:39:ARG:HH12	1:B:349:LEU:HD22	1.69	0.57
1:B:222:THR:HG21	1:B:299:LEU:HD23	1.87	0.56
1:D:20:ALA:HB1	1:D:257:MSE:HE1	1.88	0.56
1:B:230:LYS:HB2	1:B:230:LYS:NZ	2.20	0.56
1:B:214:VAL:HB	1:B:215:PRO:HD3	1.85	0.56
1:C:226:VAL:CG2	1:C:227:SER:H	1.98	0.56
1:A:22:GLU:O	1:A:23:TYR:HB2	2.05	0.56
1:D:359:THR:HG22	1:D:361:GLY:H	1.69	0.56
1:D:162:SER:O	1:D:163:CYS:HB2	2.06	0.56
1:D:280:ARG:O	1:D:284:GLN:HG3	2.06	0.56
1:A:162:SER:O	1:A:163:CYS:HB2	2.06	0.56
1:C:231:LEU:HD23	1:C:292:VAL:HG21	1.88	0.55
1:D:74:GLY:HA3	1:D:77:TRP:HD1	1.70	0.55
1:D:55:ILE:HD11	1:D:58:TYR:CD2	2.41	0.55
1:A:138:TYR:CD2	1:A:141:ILE:HB	2.42	0.55
1:C:88:THR:HG23	1:C:98:LEU:CD1	2.36	0.55
1:B:20:ALA:HB1	1:B:279:ASN:HD22	1.72	0.54
1:D:38:ASN:HB3	1:D:352:HIS:HB2	1.90	0.54
1:C:228:THR:HG23	1:C:229:GLY:N	2.23	0.54
1:B:31:THR:O	1:B:257:MSE:HG2	2.06	0.54
1:C:194:LEU:O	1:C:198:MSE:HG2	2.08	0.54
1:C:152:LEU:O	1:C:156:VAL:HG13	2.08	0.54
1:D:16:LYS:C	1:D:16:LYS:HE2	2.28	0.54
1:C:86:ILE:HG23	1:C:194:LEU:HD21	1.90	0.54
1:B:111:ASP:C	1:B:113:SER:H	2.10	0.54
1:B:302:LEU:C	1:B:302:LEU:HD23	2.28	0.54
1:B:39:ARG:HH11	1:B:39:ARG:HG2	1.72	0.53
1:C:180:PHE:CE1	1:C:182:GLN:HG2	2.42	0.53
1:B:302:LEU:HB2	1:B:346:ILE:HD13	1.91	0.53
1:B:70:LEU:HG	1:B:72:PRO:HD3	1.91	0.53
1:A:112:GLN:CD	1:A:112:GLN:H	2.11	0.53
1:B:43:LEU:HD23	1:B:44:THR:N	2.24	0.52
1:C:222:THR:O	1:C:224:THR:HG22	2.10	0.52
1:D:329:LYS:HB2	1:D:333:LEU:CD1	2.39	0.52
1:D:330:THR:OG1	1:D:333:LEU:HG	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:310:GLY:O	1:D:329:LYS:HE2	2.10	0.52
1:D:155:LEU:HD12	1:D:156:VAL:N	2.24	0.52
1:B:70:LEU:N	1:B:85:ASN:HD21	2.02	0.52
1:B:54:TRP:CD2	1:B:61:PRO:HB3	2.45	0.52
1:C:74:GLY:HA3	1:C:76:HIS:CE1	2.45	0.52
1:A:23:TYR:O	1:A:26:VAL:HG22	2.09	0.51
1:C:214:VAL:HB	1:C:215:PRO:HD3	1.92	0.51
1:D:226:VAL:HG22	1:D:320:GLY:O	2.10	0.51
1:B:45:LEU:HD23	1:B:46:GLU:N	2.26	0.51
1:B:54:TRP:CE3	1:B:102:LYS:HE3	2.46	0.51
1:C:162:SER:O	1:C:163:CYS:HB2	2.10	0.51
1:B:66:ILE:HD12	1:B:66:ILE:H	1.75	0.51
1:D:12:LYS:HD3	1:D:357:GLN:NE2	2.27	0.50
1:D:341:TRP:HB3	1:D:346:ILE:HB	1.92	0.50
1:D:316:SER:HB2	1:D:325:ILE:HG23	1.93	0.50
1:D:55:ILE:HD11	1:D:58:TYR:HD2	1.76	0.50
1:B:54:TRP:CZ2	1:B:61:PRO:HG3	2.47	0.50
1:A:214:VAL:N	1:A:215:PRO:CD	2.74	0.50
1:A:20:ALA:HB1	1:A:279:ASN:HD22	1.76	0.50
1:D:173:GLY:HA2	1:D:353:THR:CG2	2.41	0.50
1:B:355:ARG:HG2	1:B:355:ARG:HH11	1.76	0.50
1:A:148:LYS:HB3	1:A:198:MSE:HE1	1.93	0.50
1:C:301:GLU:HB3	1:C:344:LEU:HD13	1.93	0.50
1:C:228:THR:O	1:C:230:LYS:N	2.45	0.50
1:C:222:THR:HG21	1:C:299:LEU:HG	1.94	0.50
1:C:226:VAL:HG13	1:C:227:SER:N	2.27	0.50
1:C:45:LEU:C	1:C:45:LEU:HD23	2.31	0.50
1:B:193:SER:OG	1:B:195:GLU:HG2	2.11	0.50
1:B:226:VAL:O	1:B:227:SER:HB3	2.11	0.50
1:B:239:LYS:HG3	1:B:246:TYR:CD2	2.46	0.50
1:B:88:THR:HG23	1:B:98:LEU:CD1	2.42	0.49
1:A:173:GLY:HA2	1:A:353:THR:HG21	1.93	0.49
1:A:45:LEU:HD23	1:A:45:LEU:C	2.32	0.49
1:D:214:VAL:HB	1:D:215:PRO:HD3	1.95	0.49
1:A:252:ARG:NH2	1:A:278:GLU:OE1	2.46	0.49
1:A:112:GLN:OE1	1:A:112:GLN:N	2.46	0.49
1:D:231:LEU:HA	1:D:234:GLN:OE1	2.13	0.49
1:D:39:ARG:HH21	1:D:349:LEU:CB	2.23	0.49
1:C:62:VAL:HG13	1:C:77:TRP:CZ2	2.48	0.49
1:B:45:LEU:C	1:B:45:LEU:HD23	2.32	0.49
1:B:280:ARG:O	1:B:284:GLN:HG3	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:251:THR:O	1:D:255:GLU:HG3	2.13	0.49
1:D:222:THR:HB	1:D:298:LEU:HD23	1.95	0.49
1:D:288:THR:C	1:D:290:ALA:H	2.16	0.49
1:B:341:TRP:HB3	1:B:346:ILE:HB	1.96	0.48
1:B:43:LEU:C	1:B:43:LEU:HD23	2.34	0.48
1:C:239:LYS:NZ	1:C:239:LYS:HB2	2.28	0.48
1:D:222:THR:HG21	1:D:299:LEU:HD23	1.96	0.48
1:A:88:THR:HG23	1:A:98:LEU:HD11	1.96	0.48
1:C:310:GLY:O	1:C:329:LYS:HE2	2.13	0.48
1:D:74:GLY:HA3	1:D:77:TRP:CD1	2.49	0.48
1:B:256:ILE:O	1:B:259:GLN:HB2	2.14	0.48
1:A:194:LEU:H	2:A:1:PGE:C2	2.27	0.48
1:B:39:ARG:NH1	1:B:349:LEU:HD22	2.29	0.48
1:D:155:LEU:C	1:D:155:LEU:HD12	2.34	0.48
1:D:302:LEU:C	1:D:302:LEU:HD23	2.34	0.48
1:B:226:VAL:HG11	1:B:320:GLY:O	2.14	0.48
1:A:274:SER:O	1:A:278:GLU:HG3	2.14	0.47
1:D:300:LYS:HG2	1:D:304:ASP:OD2	2.13	0.47
1:C:215:PRO:HG3	1:C:269:GLU:HG2	1.96	0.47
1:C:228:THR:HG23	1:C:229:GLY:H	1.78	0.47
1:B:230:LYS:HG2	1:B:234:GLN:OE1	2.14	0.47
1:B:251:THR:O	1:B:255:GLU:HG3	2.14	0.47
1:A:277:LYS:NZ	1:A:311:GLY:O	2.47	0.47
1:C:341:TRP:HB3	1:C:346:ILE:HB	1.96	0.47
1:D:43:LEU:C	1:D:43:LEU:HD23	2.35	0.47
1:C:226:VAL:HG22	1:C:228:THR:H	1.79	0.47
1:A:273:TYR:O	1:A:277:LYS:HG3	2.15	0.46
1:C:236:HIS:O	1:C:239:LYS:HG2	2.16	0.46
1:D:45:LEU:C	1:D:45:LEU:HD23	2.36	0.46
1:D:224:THR:O	1:D:225:PRO:C	2.52	0.46
1:C:309:MSE:HE3	1:C:337:LEU:CA	2.42	0.46
1:D:338:VAL:O	1:D:342:GLU:HG3	2.15	0.46
1:B:222:THR:OG1	1:B:298:LEU:HG	2.16	0.46
1:D:16:LYS:HD3	1:D:165:ASP:CB	2.46	0.46
1:A:66:ILE:HD13	1:A:100:PRO:HD3	1.97	0.46
1:B:230:LYS:O	1:B:234:GLN:HG3	2.14	0.46
1:B:91:LEU:CD1	1:B:98:LEU:HD21	2.46	0.46
1:C:38:ASN:ND2	1:C:352:HIS:HB2	2.31	0.46
1:D:331:LYS:HB3	1:D:331:LYS:NZ	2.30	0.46
1:C:292:VAL:HG22	1:C:293:ASN:H	1.80	0.46
1:D:39:ARG:HG2	1:D:39:ARG:HH11	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:293:ASN:ND2	1:D:296:THR:HG22	2.31	0.46
1:C:195:GLU:HG3	1:C:196:TRP:N	2.31	0.46
1:D:332:GLU:HA	1:D:335:GLU:HG3	1.98	0.46
1:B:260:ILE:CG1	1:B:275:SER:HB3	2.46	0.46
1:B:338:VAL:O	1:B:342:GLU:HG3	2.16	0.45
1:C:280:ARG:O	1:C:284:GLN:HG3	2.15	0.45
1:A:180:PHE:HB3	1:A:205:LEU:HB2	1.98	0.45
1:A:191:TYR:CE1	1:A:192:LYS:HE2	2.51	0.45
1:B:355:ARG:HG2	1:B:355:ARG:NH1	2.31	0.45
1:C:292:VAL:HG22	1:C:293:ASN:N	2.31	0.45
1:B:55:ILE:HD11	1:B:58:TYR:CD2	2.52	0.45
1:A:65:PRO:HG2	1:A:68:GLY:HA3	1.98	0.45
1:D:294:ILE:HG23	1:D:318:SER:O	2.16	0.45
1:B:67:GLY:HA2	1:B:98:LEU:HD12	1.99	0.45
1:D:57:HIS:ND1	1:D:57:HIS:O	2.50	0.45
1:C:180:PHE:HB3	1:C:205:LEU:HB2	1.99	0.45
1:D:12:LYS:HD3	1:D:357:GLN:HE21	1.81	0.45
1:D:22:GLU:O	1:D:23:TYR:HB2	2.17	0.44
1:C:269:GLU:HG3	3:C:443:HOH:O	2.17	0.44
1:B:334:ALA:O	1:B:338:VAL:HG23	2.16	0.44
1:A:20:ALA:HB1	1:A:279:ASN:ND2	2.32	0.44
1:B:260:ILE:HG12	1:B:275:SER:CB	2.48	0.44
1:C:30:HIS:CD2	1:C:254:ASN:ND2	2.84	0.44
1:D:217:PHE:CE1	1:D:325:ILE:HB	2.53	0.44
1:B:224:THR:HG23	1:B:224:THR:O	2.17	0.44
1:B:256:ILE:CD1	1:B:278:GLU:HB3	2.48	0.44
1:D:70:LEU:CD1	1:D:72:PRO:HD3	2.47	0.44
1:A:252:ARG:HG2	1:A:282:ILE:HG21	2.00	0.44
1:C:222:THR:HG21	1:C:299:LEU:CD2	2.47	0.44
1:D:339:ASN:O	1:D:343:LYS:HG3	2.18	0.43
1:D:16:LYS:HD3	1:D:165:ASP:HB3	2.00	0.43
1:B:173:GLY:HA2	1:B:353:THR:HG21	1.99	0.43
1:C:325:ILE:C	1:C:325:ILE:HD12	2.39	0.43
1:C:21:GLY:HA2	1:C:253:ASN:ND2	2.18	0.43
1:D:230:LYS:O	1:D:234:GLN:HG3	2.18	0.43
1:B:296:THR:H	1:B:299:LEU:HD12	1.83	0.43
1:C:189:LEU:HA	1:C:189:LEU:HD23	1.90	0.43
1:C:238:PHE:CE1	1:C:242:ASP:HB3	2.53	0.43
1:C:230:LYS:O	1:C:234:GLN:HG3	2.18	0.43
1:B:339:ASN:O	1:B:343:LYS:HG3	2.18	0.43
1:B:230:LYS:HB2	1:B:230:LYS:HZ3	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1:PGE:H6	1:B:194:LEU:HB2	2.00	0.43
1:C:22:GLU:O	1:C:23:TYR:HB2	2.18	0.43
1:D:112:GLN:N	1:D:112:GLN:OE1	2.52	0.43
1:B:207:ILE:HB	1:C:59:GLU:HB2	2.00	0.43
1:D:332:GLU:O	1:D:335:GLU:HB2	2.18	0.43
1:D:14:PRO:HB3	1:D:40:TYR:CE1	2.54	0.43
1:C:96:ILE:HG21	1:C:137:PHE:HB3	2.01	0.43
1:C:31:THR:HG22	1:C:32:ALA:N	2.34	0.43
1:C:226:VAL:HG22	1:C:228:THR:N	2.33	0.42
1:A:21:GLY:N	1:A:279:ASN:HD21	2.12	0.42
1:C:60:ASN:ND2	1:C:61:PRO:HD2	2.33	0.42
1:B:20:ALA:HB1	1:B:279:ASN:ND2	2.33	0.42
1:D:302:LEU:HB2	1:D:346:ILE:HD13	2.01	0.42
1:B:88:THR:HG23	1:B:98:LEU:HD11	2.02	0.42
1:A:155:LEU:HD12	1:A:155:LEU:C	2.39	0.42
1:D:293:ASN:HD21	1:D:296:THR:HG22	1.84	0.42
1:A:309:MSE:HE3	1:A:337:LEU:HA	2.02	0.42
1:A:43:LEU:C	1:A:43:LEU:HD23	2.40	0.42
1:A:251:THR:O	1:A:255:GLU:HG3	2.19	0.42
1:A:112:GLN:CD	1:A:112:GLN:N	2.72	0.42
1:D:341:TRP:O	1:D:344:LEU:N	2.52	0.42
1:D:238:PHE:O	1:D:241:GLU:HB3	2.19	0.42
1:C:138:TYR:CD2	1:C:141:ILE:HB	2.54	0.42
1:B:22:GLU:CD	1:B:314:LYS:HZ1	2.22	0.42
1:B:222:THR:HG23	1:B:299:LEU:HD23	2.01	0.42
1:C:46:GLU:HG2	1:C:102:LYS:HB3	2.01	0.42
1:C:25:VAL:HB	1:C:32:ALA:HB2	2.02	0.42
1:C:112:GLN:CD	1:C:112:GLN:H	2.23	0.41
1:B:41:ILE:HD13	1:B:107:THR:HB	2.02	0.41
1:A:257:MSE:O	1:A:260:ILE:HG22	2.20	0.41
1:C:43:LEU:C	1:C:43:LEU:HD23	2.41	0.41
1:A:293:ASN:ND2	1:A:296:THR:HG22	2.35	0.41
1:C:75:GLU:O	1:C:75:GLU:HG2	2.20	0.41
1:D:257:MSE:CA	1:D:257:MSE:HE3	2.46	0.41
1:B:43:LEU:HA	1:B:104:VAL:O	2.20	0.41
1:D:296:THR:HG23	1:D:320:GLY:HA2	2.02	0.41
1:D:279:ASN:HD22	1:D:314:LYS:HE3	1.83	0.41
1:B:214:VAL:HB	1:B:269:GLU:OE2	2.21	0.41
1:B:55:ILE:HG22	1:B:105:ILE:HD12	2.02	0.41
1:B:224:THR:O	1:B:225:PRO:C	2.59	0.41
1:B:74:GLY:HA3	1:B:77:TRP:HD1	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:66:ILE:HG12	1:B:100:PRO:HD3	2.03	0.41
1:A:90:PHE:CE1	1:A:198:MSE:HG3	2.56	0.40
1:C:351:PHE:CG	1:C:352:HIS:N	2.89	0.40
1:B:196:TRP:CH2	1:B:200:GLU:HG2	2.57	0.40
1:B:231:LEU:N	1:B:231:LEU:HD12	2.36	0.40
1:C:231:LEU:HD11	1:C:320:GLY:HA3	2.04	0.40
1:D:349:LEU:O	1:D:350:PRO:C	2.60	0.40
1:C:155:LEU:C	1:C:155:LEU:CD1	2.90	0.40
1:B:66:ILE:HD12	1:B:66:ILE:N	2.37	0.40
1:B:62:VAL:HG13	1:B:77:TRP:CZ2	2.56	0.40
1:B:183:GLU:HG3	3:B:373:HOH:O	2.21	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	353/365 (97%)	342 (97%)	11 (3%)	0	100	100
1	B	353/365 (97%)	335 (95%)	16 (4%)	2 (1%)	30	24
1	C	353/365 (97%)	336 (95%)	11 (3%)	6 (2%)	11	5
1	D	353/365 (97%)	322 (91%)	24 (7%)	7 (2%)	9	4
All	All	1412/1460 (97%)	1335 (94%)	62 (4%)	15 (1%)	17	11

All (15) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	227	SER
1	C	223	GLY
1	C	226	VAL
1	C	228	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	229	GLY
1	D	223	GLY
1	B	112	GLN
1	C	227	SER
1	D	225	PRO
1	D	289	LYS
1	D	74	GLY
1	D	241	GLU
1	D	288	THR
1	C	56	PRO
1	D	350	PRO

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	298/299 (100%)	295 (99%)	3 (1%)	82	87
1	B	298/299 (100%)	293 (98%)	5 (2%)	68	74
1	C	298/299 (100%)	292 (98%)	6 (2%)	63	68
1	D	298/299 (100%)	291 (98%)	7 (2%)	58	62
All	All	1192/1196 (100%)	1171 (98%)	21 (2%)	66	72

All (21) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	LYS
1	A	112	GLN
1	A	155	LEU
1	B	16	LYS
1	B	39	ARG
1	B	54	TRP
1	B	222	THR
1	B	309	MSE
1	C	16	LYS
1	C	56	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	155	LEU
1	C	195	GLU
1	C	199	LYS
1	C	239	LYS
1	D	16	LYS
1	D	138	TYR
1	D	188	ARG
1	D	225	PRO
1	D	257	MSE
1	D	339	ASN
1	D	340	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (34) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	85	ASN
1	A	240	GLN
1	A	245	ASN
1	A	247	GLN
1	A	253	ASN
1	A	279	ASN
1	A	348	HIS
1	A	352	HIS
1	B	60	ASN
1	B	85	ASN
1	B	131	ASN
1	B	240	GLN
1	B	245	ASN
1	B	253	ASN
1	B	259	GLN
1	B	279	ASN
1	B	293	ASN
1	C	60	ASN
1	C	85	ASN
1	C	182	GLN
1	C	253	ASN
1	C	254	ASN
1	C	279	ASN
1	C	339	ASN
1	C	348	HIS
1	D	85	ASN
1	D	131	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	240	GLN
1	D	245	ASN
1	D	253	ASN
1	D	279	ASN
1	D	293	ASN
1	D	339	ASN
1	D	357	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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

1 ligand is modelled in this entry.

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	PGE	A	1	-	9,9,9	0.93	0	8,8,8	2.61	3 (37%)

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	PGE	A	1	-	-	0/7/7/7	0/0/0/0

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1	PGE	O3-C4-C3	-5.13	87.57	110.36
2	A	1	PGE	C3-O2-C2	-4.37	94.52	113.31
2	A	1	PGE	O3-C5-C6	-2.12	100.67	110.43

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1	PGE	4	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	347/365 (95%)	0.25	5 (1%) 78 82	12, 24, 45, 65	0
1	B	347/365 (95%)	0.62	24 (6%) 20 27	16, 37, 63, 81	0
1	C	347/365 (95%)	0.33	12 (3%) 48 57	13, 24, 51, 75	0
1	D	347/365 (95%)	1.13	62 (17%) 2 2	17, 40, 73, 90	0
All	All	1388/1460 (95%)	0.58	103 (7%) 17 24	12, 30, 66, 90	0

All (103) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	223	GLY	19.6
1	D	229	GLY	18.2
1	D	226	VAL	15.7
1	C	224	THR	11.6
1	B	361	GLY	9.3
1	D	228	THR	9.3
1	C	226	VAL	8.5
1	C	227	SER	7.7
1	C	228	THR	6.4
1	B	227	SER	5.7
1	C	229	GLY	5.6
1	B	222	THR	5.5
1	D	223	GLY	5.5
1	D	345	GLY	5.0
1	D	291	GLY	4.8
1	B	7	ASN	4.7
1	D	339	ASN	4.7
1	B	225	PRO	4.7
1	D	245	ASN	4.5
1	B	228	THR	4.5
1	D	112	GLN	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	D	224	THR	4.1
1	B	54	TRP	4.1
1	D	113	SER	4.0
1	B	229	GLY	4.0
1	D	352	HIS	3.9
1	D	293	ASN	3.8
1	B	226	VAL	3.7
1	B	360	GLU	3.7
1	D	294	ILE	3.7
1	B	112	GLN	3.7
1	D	332	GLU	3.6
1	D	225	PRO	3.5
1	D	155	LEU	3.5
1	D	114	GLY	3.5
1	D	117	TYR	3.5
1	D	110	ILE	3.5
1	B	9	LEU	3.3
1	D	289	LYS	3.3
1	D	73	ASP	3.2
1	D	301	GLU	3.2
1	D	320	GLY	3.2
1	B	293	ASN	3.2
1	C	351	PHE	3.1
1	D	59	GLU	3.1
1	D	244	LYS	3.1
1	D	57	HIS	3.0
1	D	349	LEU	3.0
1	B	224	THR	3.0
1	D	359	THR	3.0
1	D	338	VAL	3.0
1	D	288	THR	2.9
1	D	238	PHE	2.9
1	D	343	LYS	2.9
1	B	339	ASN	2.9
1	D	344	LEU	2.9
1	D	231	LEU	2.9
1	D	221	TRP	2.9
1	D	237	ALA	2.8
1	C	138	TYR	2.8
1	D	340	GLU	2.8
1	D	54	TRP	2.8
1	D	227	SER	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	D	49	GLU	2.8
1	D	306	ALA	2.7
1	D	232	VAL	2.7
1	A	361	GLY	2.6
1	D	230	LYS	2.6
1	D	308	ASN	2.6
1	D	111	ASP	2.6
1	D	281	ARG	2.5
1	A	244	LYS	2.5
1	D	292	VAL	2.5
1	D	58	TYR	2.5
1	A	241	GLU	2.5
1	B	49	GLU	2.5
1	D	235	ILE	2.4
1	D	346	ILE	2.4
1	D	335	GLU	2.4
1	D	252	ARG	2.4
1	D	331	LYS	2.4
1	B	342	GLU	2.3
1	D	115	ALA	2.3
1	C	230	LYS	2.3
1	B	231	LEU	2.3
1	A	227	SER	2.2
1	B	336	LYS	2.2
1	B	57	HIS	2.2
1	C	225	PRO	2.2
1	D	341	TRP	2.2
1	D	243	SER	2.2
1	D	250	LEU	2.2
1	A	7	ASN	2.2
1	D	242	ASP	2.2
1	B	292	VAL	2.2
1	B	223	GLY	2.1
1	C	360	GLU	2.1
1	C	155	LEU	2.1
1	D	194	LEU	2.1
1	B	8	LYS	2.0
1	D	60	ASN	2.0
1	B	230	LYS	2.0
1	D	61	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
2	PGE	A	1	10/10	0.60	0.32	7.60	35,46,49,50	0

6.5 Other polymers [i](#)

There are no such residues in this entry.