W O R L D W I D E
wwPDB
P R O T E I N   D A T A   B A N K

wwPDB X-ray Structure Validation Summary Report (i)

Sep 2, 2023 – 12:04 PM EDT

PDB ID	:	3QYM
Title	:	Structure of p63 DNA Binding Domain in Complex with a 10 Base Pair A/T Rich Response Element Half Site
Authors	:	Herzberg, O.; Chen, C.
Deposited on	:	2011-03-03
Resolution	:	3.20 Å(reported)

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

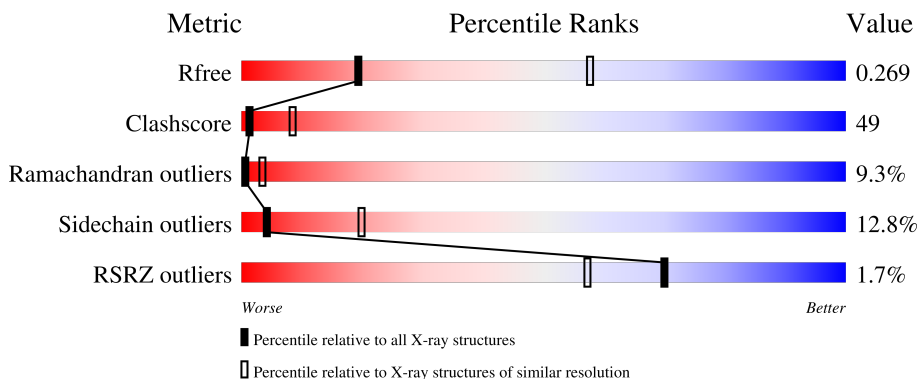|		
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.35
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

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 3.20 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	Percentile Ranks	Value
Rfree		0.269
Clashscore		49
Ramachandran outliers		9.3%
Sidechain outliers		12.8%
RSRZ outliers		1.7%

Worse   *Better*

▌ Percentile relative to all X-ray structures
▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R*free*	130704	1133 (3.20-3.20)
Clashscore	141614	1253 (3.20-3.20)
Ramachandran outliers	138981	1234 (3.20-3.20)
Sidechain outliers	138945	1233 (3.20-3.20)
RSRZ outliers	127900	1095 (3.20-3.20)

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 <=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	203	3% · 35% · 45% · 13% · 5%
1	B	203	3% · 34% · 45% · 14% · 6%
1	C	203	33% · 49% · 14% · ·
1	D	203	% · 33% · 49% · 14% · ·
1	E	203	% · 34% · 46% · 16% · ·

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Mol	Chain	Length	Quality of chain
1	F	203	34% 47% 14%
1	G	203	33% 46% 13% 6%
1	H	203	31% 47% 14% 7%
2	I	10	100%
2	J	10	100%
2	K	10	10% 90%
2	L	10	10% 90%
2	M	10	10% 90%
2	N	10	10% 90%
2	O	10	10% 90%
2	P	10	10% 90%

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 13681 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 Tumor protein 63.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	192	Total	C	N	O	S	0	0	0
			1497	937	266	282	12			
1	B	191	Total	C	N	O	S	0	0	0
			1496	936	266	282	12			
1	C	195	Total	C	N	O	S	0	0	0
			1518	948	270	288	12			
1	D	196	Total	C	N	O	S	0	0	0
			1523	951	271	289	12			
1	E	197	Total	C	N	O	S	0	0	0
			1534	957	275	290	12			
1	F	195	Total	C	N	O	S	0	0	0
			1518	948	270	288	12			
1	G	190	Total	C	N	O	S	0	0	0
			1487	930	265	280	12			
1	H	189	Total	C	N	O	S	0	0	0
			1484	930	264	278	12			

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	121	GLY	-	expression tag	UNP Q9H3D4
A	122	SER	-	expression tag	UNP Q9H3D4
A	123	HIS	-	expression tag	UNP Q9H3D4
A	124	MET	-	expression tag	UNP Q9H3D4
A	125	ALA	-	expression tag	UNP Q9H3D4
A	126	SER	-	expression tag	UNP Q9H3D4
B	121	GLY	-	expression tag	UNP Q9H3D4
B	122	SER	-	expression tag	UNP Q9H3D4
B	123	HIS	-	expression tag	UNP Q9H3D4
B	124	MET	-	expression tag	UNP Q9H3D4
B	125	ALA	-	expression tag	UNP Q9H3D4
B	126	SER	-	expression tag	UNP Q9H3D4
C	121	GLY	-	expression tag	UNP Q9H3D4

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Chain	Residue	Modelled	Actual	Comment	Reference
C	122	SER	-	expression tag	UNP Q9H3D4
C	123	HIS	-	expression tag	UNP Q9H3D4
C	124	MET	-	expression tag	UNP Q9H3D4
C	125	ALA	-	expression tag	UNP Q9H3D4
C	126	SER	-	expression tag	UNP Q9H3D4
D	121	GLY	-	expression tag	UNP Q9H3D4
D	122	SER	-	expression tag	UNP Q9H3D4
D	123	HIS	-	expression tag	UNP Q9H3D4
D	124	MET	-	expression tag	UNP Q9H3D4
D	125	ALA	-	expression tag	UNP Q9H3D4
D	126	SER	-	expression tag	UNP Q9H3D4
E	121	GLY	-	expression tag	UNP Q9H3D4
E	122	SER	-	expression tag	UNP Q9H3D4
E	123	HIS	-	expression tag	UNP Q9H3D4
E	124	MET	-	expression tag	UNP Q9H3D4
E	125	ALA	-	expression tag	UNP Q9H3D4
E	126	SER	-	expression tag	UNP Q9H3D4
F	121	GLY	-	expression tag	UNP Q9H3D4
F	122	SER	-	expression tag	UNP Q9H3D4
F	123	HIS	-	expression tag	UNP Q9H3D4
F	124	MET	-	expression tag	UNP Q9H3D4
F	125	ALA	-	expression tag	UNP Q9H3D4
F	126	SER	-	expression tag	UNP Q9H3D4
G	121	GLY	-	expression tag	UNP Q9H3D4
G	122	SER	-	expression tag	UNP Q9H3D4
G	123	HIS	-	expression tag	UNP Q9H3D4
G	124	MET	-	expression tag	UNP Q9H3D4
G	125	ALA	-	expression tag	UNP Q9H3D4
G	126	SER	-	expression tag	UNP Q9H3D4
H	121	GLY	-	expression tag	UNP Q9H3D4
H	122	SER	-	expression tag	UNP Q9H3D4
H	123	HIS	-	expression tag	UNP Q9H3D4
H	124	MET	-	expression tag	UNP Q9H3D4
H	125	ALA	-	expression tag	UNP Q9H3D4
H	126	SER	-	expression tag	UNP Q9H3D4

- Molecule 2 is a DNA chain called 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	I	10	Total 202	C 99	N 36	O 58	P 9	0	0	0
2	J	10	Total 202	C 99	N 36	O 58	P 9	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	K	10	Total	C	N	O	P	0	0	0
			202	99	36	58	9			
2	L	10	Total	C	N	O	P	0	0	0
			202	99	36	58	9			
2	M	10	Total	C	N	O	P	0	0	0
			202	99	36	58	9			
2	N	10	Total	C	N	O	P	0	0	0
			202	99	36	58	9			
2	O	10	Total	C	N	O	P	0	0	0
			202	99	36	58	9			
2	P	10	Total	C	N	O	P	0	0	0
			202	99	36	58	9			

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Zn	0	0
			1	1		
3	B	1	Total	Zn	0	0
			1	1		
3	C	1	Total	Zn	0	0
			1	1		
3	D	1	Total	Zn	0	0
			1	1		
3	E	1	Total	Zn	0	0
			1	1		
3	F	1	Total	Zn	0	0
			1	1		
3	G	1	Total	Zn	0	0
			1	1		
3	H	1	Total	Zn	0	0
			1	1		

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: Tumor protein 63

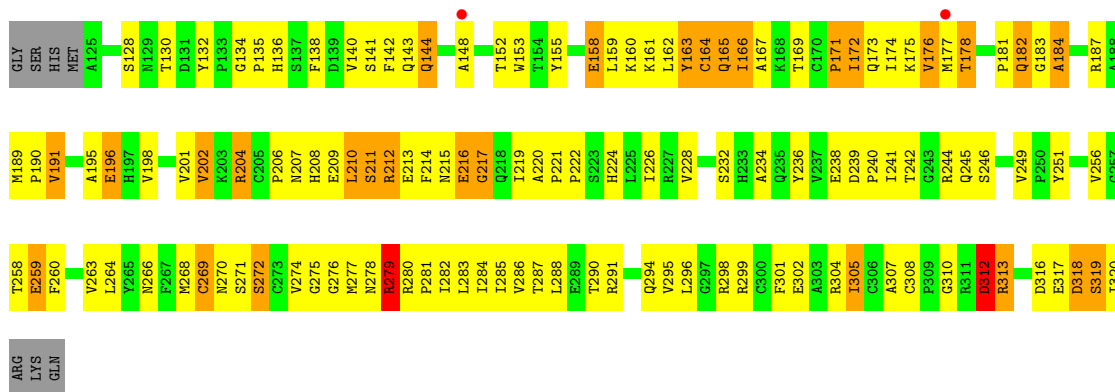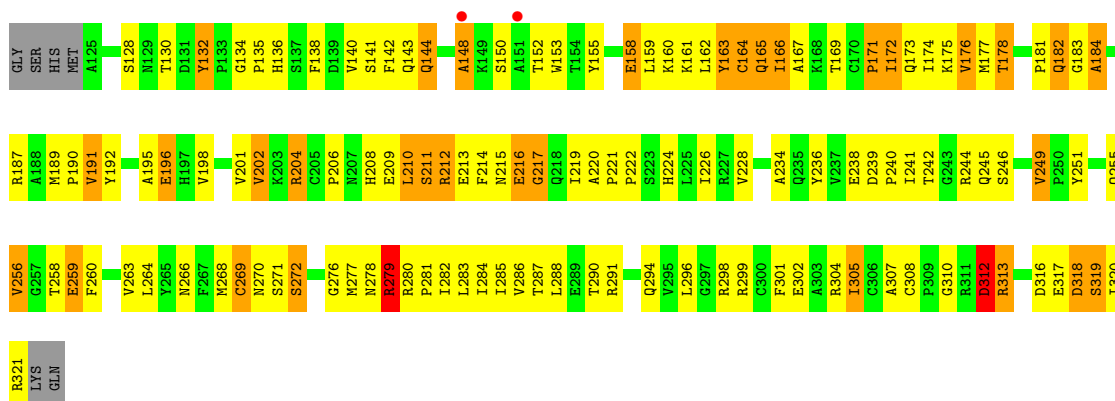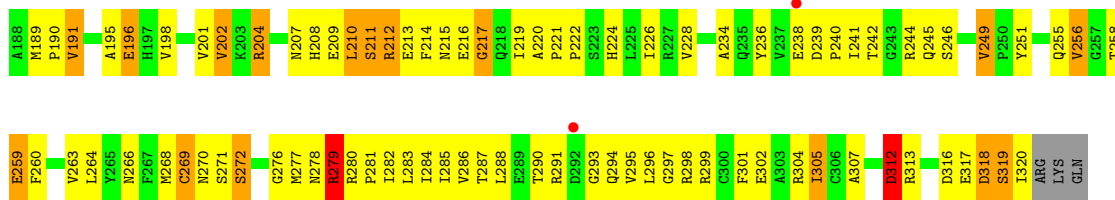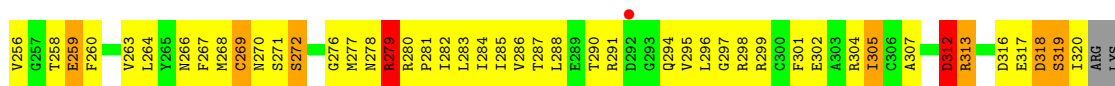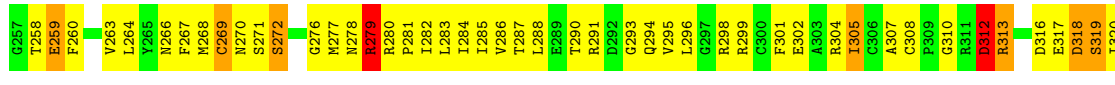

- Molecule 1: Tumor protein 63

- Molecule 1: Tumor protein 63

- Molecule 1: Tumor protein 63

Chain D: 33% 49% 14%

- Molecule 1: Tumor protein 63

Chain E: 34% 46% 16%

- Molecule 1: Tumor protein 63

Chain F: 34% 47% 14%

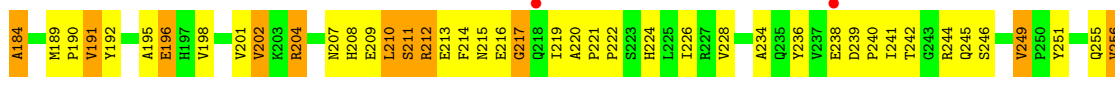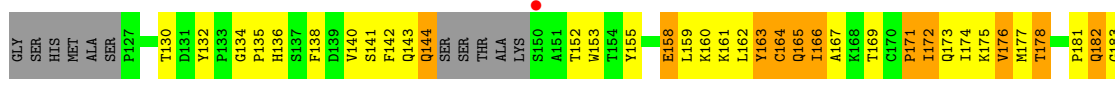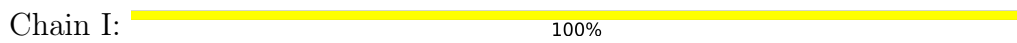• Molecule 1: Tumor protein 63

Chain G:

• Molecule 1: Tumor protein 63

Chain H:

• Molecule 2: 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'

Chain I:

• Molecule 2: 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'

Chain J:

A1 A2 A3 C4 A5 T6 G7 T8 T9 T10

• Molecule 2: 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'

Chain K: 10% 90%

A1 A2 A3 C4 A5 T6 G7 T8 T9 T10

• Molecule 2: 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'

Chain L: 10% 90%

A1 A2 A3 C4 A5 T6 G7 T8 T9 T10
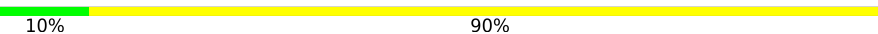
• Molecule 2: 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'

Chain M: 10% 90%

A1 A2 A3 C4 A5 T6 G7 T8 T9 T10

• Molecule 2: 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'

Chain N: 10% 90%

A1 A2 A3 C4 A5 T6 G7 T8 T9 T10

• Molecule 2: 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'

Chain O: 10% 90%

A1 A2 A3 C4 A5 T6 G7 T8 T9 T10

• Molecule 2: 5'-D(*AP*AP*AP*CP*AP*TP*GP*TP*TP*T)-3'

Chain P: 10% 90%

A1 A2 A3 C4 A5 T6 G7 T8 T9 T10

4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α, β, γ	123.87Å 180.20Å 104.38Å 90.00° 92.62° 90.00°	Depositor
Resolution (Å)	19.72 – 3.20 19.72 – 3.15	Depositor EDS
% Data completeness (in resolution range)	97.5 (19.72-3.20) 97.4 (19.72-3.15)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.14	Depositor
$< I/\sigma(I) >$ [1]	1.41 (at 3.15Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.6.4_486)	Depositor
R, R_{free}	0.245 , 0.271 0.240 , 0.269	Depositor DCC
R_{free} test set	1917 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å^2)	82.2	Xtriage
Anisotropy	0.282	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 66.7	EDS
L-test for twinning[2]	$< |L| > = 0.39, < L^2 > = 0.21$	Xtriage
Estimated twinning fraction	0.085 for -h,-k,l	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	13681	wwPDB-VP
Average B, all atoms (Å^2)	137.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.30% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ 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:
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	0.38	0/1532	0.66	0/2082
1	B	0.37	0/1531	0.65	1/2079 (0.0%)
1	C	0.43	0/1554	0.66	0/2113
1	D	0.40	0/1559	0.66	1/2120 (0.0%)
1	E	0.43	0/1570	0.67	1/2134 (0.0%)
1	F	0.40	0/1554	0.66	1/2113 (0.0%)
1	G	0.39	0/1521	0.65	0/2065
1	H	0.40	0/1519	0.66	1/2063 (0.0%)
2	I	0.67	0/226	0.79	0/347
2	J	0.74	0/226	0.78	0/347
2	K	0.75	0/226	0.82	0/347
2	L	0.64	0/226	0.83	0/347
2	M	0.57	0/226	0.78	0/347
2	N	0.57	0/226	0.80	0/347
2	O	0.55	0/226	0.78	0/347
2	P	0.55	0/226	0.79	0/347
All	All	0.44	0/14148	0.68	5/19545 (0.0%)

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	217	GLY	N-CA-C	-5.11	100.32	113.10
1	H	217	GLY	N-CA-C	-5.10	100.36	113.10
1	B	217	GLY	N-CA-C	-5.07	100.43	113.10
1	E	217	GLY	N-CA-C	-5.07	100.44	113.10
1	D	217	GLY	N-CA-C	-5.05	100.46	113.10

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	1497	0	1472	147	0
1	B	1496	0	1473	143	0
1	C	1518	0	1491	163	3
1	D	1523	0	1496	169	0
1	E	1534	0	1509	174	2
1	F	1518	0	1491	154	0
1	G	1487	0	1461	140	0
1	H	1484	0	1463	150	1
2	I	202	0	116	8	0
2	J	202	0	116	20	0
2	K	202	0	116	7	0
2	L	202	0	116	17	0
2	M	202	0	116	22	0
2	N	202	0	116	8	0
2	O	202	0	116	23	0
2	P	202	0	116	8	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
3	G	1	0	0	0	0
3	H	1	0	0	0	0
All	All	13681	0	12784	1290	4

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 49.

The worst 5 of 1290 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:204:ARG:HD2	1:A:268:MET:HB2	1.34	1.08
1:H:204:ARG:HD2	1:H:268:MET:HB2	1.35	1.07
1:C:204:ARG:HD2	1:C:268:MET:HB2	1.35	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:204:ARG:HD2	1:E:268:MET:HB2	1.35	1.06
1:D:204:ARG:HD2	1:D:268:MET:HB2	1.35	1.05

All (4) 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:C:291:ARG:NH1	1:E:239:ASP:OD1[2_555]	1.98	0.22
1:C:233:HIS:CE1	1:C:233:HIS:CE1[2_555]	2.02	0.18
1:H:132:TYR:OH	1:H:132:TYR:OH[2_455]	2.05	0.15
1:C:235:GLN:OE1	1:E:240:PRO:O[2_555]	2.07	0.13

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	188/203 (93%)	131 (70%)	39 (21%)	18 (10%)	0	3
1	B	187/203 (92%)	131 (70%)	39 (21%)	17 (9%)	1	3
1	C	193/203 (95%)	132 (68%)	43 (22%)	18 (9%)	0	3
1	D	194/203 (96%)	134 (69%)	42 (22%)	18 (9%)	0	3
1	E	195/203 (96%)	135 (69%)	42 (22%)	18 (9%)	1	3
1	F	193/203 (95%)	133 (69%)	42 (22%)	18 (9%)	0	3
1	G	186/203 (92%)	129 (69%)	40 (22%)	17 (9%)	1	3
1	H	185/203 (91%)	130 (70%)	38 (20%)	17 (9%)	1	3
All	All	1521/1624 (94%)	1055 (69%)	325 (21%)	141 (9%)	0	3

5 of 141 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	148	ALA
1	A	166	ILE
1	A	172	ILE
1	A	256	VAL
1	A	272	SER

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	169/179 (94%)	148 (88%)	21 (12%)	4	21
1	B	170/179 (95%)	149 (88%)	21 (12%)	4	21
1	C	172/179 (96%)	150 (87%)	22 (13%)	4	20
1	D	172/179 (96%)	151 (88%)	21 (12%)	5	22
1	E	173/179 (97%)	150 (87%)	23 (13%)	4	18
1	F	172/179 (96%)	150 (87%)	22 (13%)	4	20
1	G	168/179 (94%)	146 (87%)	22 (13%)	4	19
1	H	168/179 (94%)	146 (87%)	22 (13%)	4	19
All	All	1364/1432 (95%)	1190 (87%)	174 (13%)	4	20

5 of 174 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	182	GLN
1	G	259	GLU
1	F	216	GLU
1	G	144	GLN
1	G	312	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 47 such sidechains are listed below:

Mol	Chain	Res	Type
1	E	266	ASN

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Mol	Chain	Res	Type
1	G	207	ASN
1	E	278	ASN
1	F	224	HIS
1	G	218	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 monosaccharides in this entry.

5.6   Ligand geometry ⓘ

Of 8 ligands modelled in this entry, 8 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 ⓘ

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(Å²)	Q<0.9
1	A	192/203 (94%)	-0.01	7 (3%)	42	27	99, 154, 212, 235	0
1	B	191/203 (94%)	-0.04	7 (3%)	41	26	104, 156, 215, 247	0
1	C	195/203 (96%)	-0.19	0	100	100	66, 118, 175, 218	0
1	D	196/203 (96%)	-0.17	2 (1%)	82	72	83, 137, 204, 237	0
1	E	197/203 (97%)	-0.18	2 (1%)	82	72	76, 123, 197, 244	0
1	F	195/203 (96%)	-0.17	3 (1%)	73	61	81, 130, 193, 218	0
1	G	190/203 (93%)	-0.06	4 (2%)	63	49	90, 140, 202, 227	0
1	H	189/203 (93%)	-0.09	3 (1%)	72	59	81, 141, 196, 233	0
2	I	10/10 (100%)	-0.69	0	100	100	93, 112, 127, 128	0
2	J	10/10 (100%)	-0.63	0	100	100	97, 110, 118, 118	0
2	K	10/10 (100%)	-0.64	0	100	100	75, 100, 119, 120	0
2	L	10/10 (100%)	-0.52	0	100	100	89, 98, 114, 117	0
2	M	10/10 (100%)	-0.66	0	100	100	82, 94, 101, 111	0
2	N	10/10 (100%)	-0.60	0	100	100	79, 98, 120, 120	0
2	O	10/10 (100%)	-0.55	0	100	100	93, 104, 110, 115	0
2	P	10/10 (100%)	-0.57	0	100	100	79, 95, 112, 114	0
All	All	1625/1704 (95%)	-0.14	28 (1%)	70	57	66, 137, 205, 247	0

The worst 5 of 28 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	G	144	GLN	5.6
1	A	239	ASP	4.1
1	G	182	GLN	3.2
1	D	177	MET	3.0
1	A	240	PRO	2.9

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 ⓘ

There are no monosaccharides in this entry.

6.4   Ligands ⓘ

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
3	ZN	D	901	1/1	0.92	0.22	116,116,116,116	0
3	ZN	B	901	1/1	0.96	0.17	132,132,132,132	0
3	ZN	E	901	1/1	0.97	0.20	126,126,126,126	0
3	ZN	G	901	1/1	0.97	0.19	140,140,140,140	0
3	ZN	F	901	1/1	0.98	0.17	112,112,112,112	0
3	ZN	A	901	1/1	0.98	0.15	155,155,155,155	0
3	ZN	H	901	1/1	0.99	0.20	140,140,140,140	0
3	ZN	C	901	1/1	1.00	0.15	99,99,99,99	0

6.5   Other polymers ⓘ

There are no such residues in this entry.

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