



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 17, 2025 – 10:05 AM EST

PDB ID : 9OF3 / pdb_00009of3
Title : Structure of the Acinetobacter baumannii Response Regulator PmrA Receiver Domain D10N mutation
Authors : Jaimes, F.E.; Milton, M.E.; Hondros, A.D.; Kinkead, J.; Cavanagh, J.
Deposited on : 2025-04-29
Resolution : 2.67 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	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
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)	:	2.46

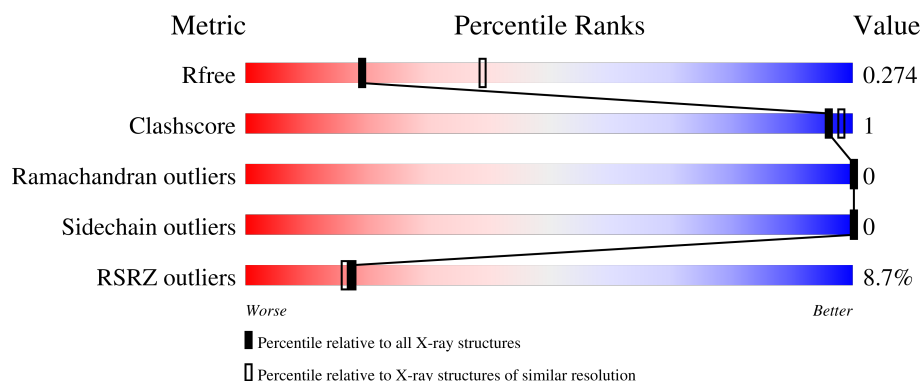
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.67 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}	164625	4708 (2.70-2.66)
Clashscore	180529	5138 (2.70-2.66)
Ramachandran outliers	177936	5071 (2.70-2.66)
Sidechain outliers	177891	5071 (2.70-2.66)
RSRZ outliers	164620	4708 (2.70-2.66)

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	127	<div> <div>3%</div> <div>92%</div> <div>6%</div> </div>
1	B	127	<div> <div>11%</div> <div>94%</div> <div>6%</div> </div>
1	C	127	<div> <div>9%</div> <div>93%</div> <div>6%</div> </div>
1	D	127	<div> <div>7%</div> <div>83%</div> <div>7%</div> <div>9%</div> </div>
1	E	127	<div> <div>6%</div> <div>89%</div> <div>10%</div> </div>

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Mol	Chain	Length	Quality of chain
1	F	127	<div><div></div><div>11%</div><div></div><div>91%</div><div></div><div>6%</div></div>
1	G	127	<div><div></div><div>9%</div><div></div><div>91%</div><div></div><div>6%</div></div>
1	H	127	<div><div></div><div>9%</div><div></div><div>91%</div><div></div><div>6%</div></div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 15431 atoms, of which 7829 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 PmrA.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	120	Total	C	H	N	O	S	0	0	0
			1950	614	990	164	176	6			
1	B	120	Total	C	H	N	O	S	0	0	0
			1950	614	990	164	176	6			
1	C	120	Total	C	H	N	O	S	0	0	0
			1950	614	990	164	176	6			
1	D	115	Total	C	H	N	O	S	0	0	0
			1861	588	946	154	167	6			
1	E	114	Total	C	H	N	O	S	0	0	0
			1854	586	943	153	166	6			
1	F	120	Total	C	H	N	O	S	0	0	0
			1950	614	990	164	176	6			
1	G	120	Total	C	H	N	O	S	0	0	0
			1950	614	990	164	176	6			
1	H	120	Total	C	H	N	O	S	0	0	0
			1950	614	990	164	176	6			

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP E2FGC2
A	-1	SER	-	expression tag	UNP E2FGC2
A	0	HIS	-	expression tag	UNP E2FGC2
A	10	ASN	ASP	engineered mutation	UNP E2FGC2
B	-2	GLY	-	expression tag	UNP E2FGC2
B	-1	SER	-	expression tag	UNP E2FGC2
B	0	HIS	-	expression tag	UNP E2FGC2
B	10	ASN	ASP	engineered mutation	UNP E2FGC2
C	-2	GLY	-	expression tag	UNP E2FGC2
C	-1	SER	-	expression tag	UNP E2FGC2
C	0	HIS	-	expression tag	UNP E2FGC2
C	10	ASN	ASP	engineered mutation	UNP E2FGC2
D	-2	GLY	-	expression tag	UNP E2FGC2

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-1	SER	-	expression tag	UNP E2FGC2
D	0	HIS	-	expression tag	UNP E2FGC2
D	10	ASN	ASP	engineered mutation	UNP E2FGC2
E	-2	GLY	-	expression tag	UNP E2FGC2
E	-1	SER	-	expression tag	UNP E2FGC2
E	0	HIS	-	expression tag	UNP E2FGC2
E	10	ASN	ASP	engineered mutation	UNP E2FGC2
F	-2	GLY	-	expression tag	UNP E2FGC2
F	-1	SER	-	expression tag	UNP E2FGC2
F	0	HIS	-	expression tag	UNP E2FGC2
F	10	ASN	ASP	engineered mutation	UNP E2FGC2
G	-2	GLY	-	expression tag	UNP E2FGC2
G	-1	SER	-	expression tag	UNP E2FGC2
G	0	HIS	-	expression tag	UNP E2FGC2
G	10	ASN	ASP	engineered mutation	UNP E2FGC2
H	-2	GLY	-	expression tag	UNP E2FGC2
H	-1	SER	-	expression tag	UNP E2FGC2
H	0	HIS	-	expression tag	UNP E2FGC2
H	10	ASN	ASP	engineered mutation	UNP E2FGC2

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Mg 1 1	0	0
2	H	1	Total Mg 1 1	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	3	Total O 3 3	0	0
3	B	1	Total O 1 1	0	0
3	C	1	Total O 1 1	0	0
3	D	1	Total O 1 1	0	0
3	E	1	Total O 1 1	0	0

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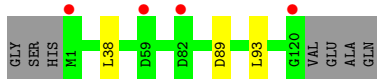
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	F	1	Total 1	O 1	0	0
3	G	3	Total 3	O 3	0	0
3	H	3	Total 3	O 3	0	0

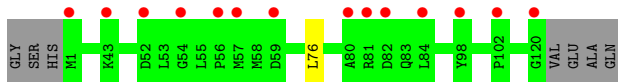
3 Residue-property plots [i](#)

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.

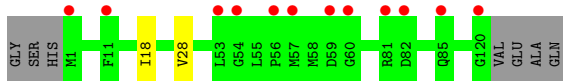
- Molecule 1: PmrA



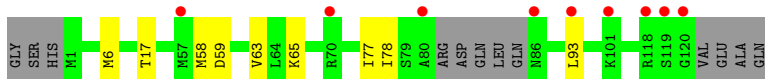
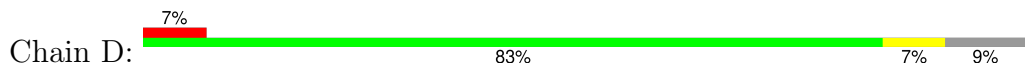
- Molecule 1: PmrA



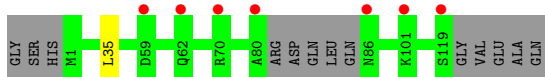
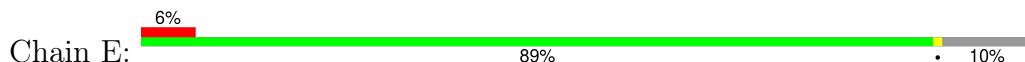
- Molecule 1: PmrA



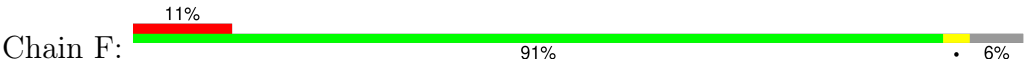
- Molecule 1: PmrA



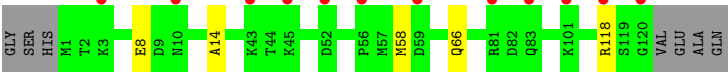
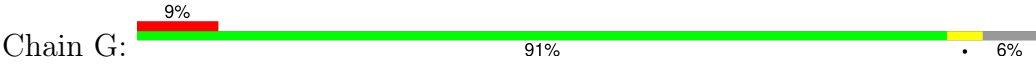
- Molecule 1: PmrA



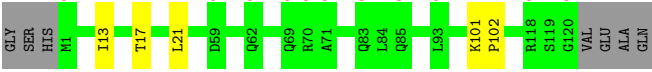
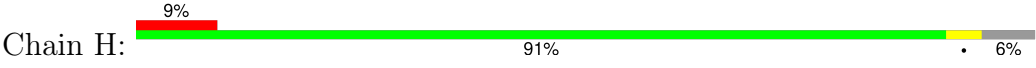
- Molecule 1: PmrA



• Molecule 1: PmrA



• Molecule 1: PmrA



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	109.74Å 109.74Å 214.38Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.84 – 2.67 48.84 – 2.67	Depositor EDS
% Data completeness (in resolution range)	97.2 (48.84-2.67) 97.3 (48.84-2.67)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.78 (at 2.69Å)	Xtrriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.225 , 0.275 0.224 , 0.274	Depositor DCC
R_{free} test set	1954 reflections (5.14%)	wwPDB-VP
Wilson B-factor (Å ²)	33.0	Xtrriage
Anisotropy	0.320	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 19.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	15431	wwPDB-VP
Average B, all atoms (Å ²)	41.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 52.71 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 4.6794e-05. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: MG

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	0.12	0/973	0.25	0/1313
1	B	0.10	0/973	0.22	0/1313
1	C	0.18	0/973	0.36	0/1313
1	D	0.10	0/927	0.23	0/1250
1	E	0.10	0/923	0.23	0/1245
1	F	0.15	0/973	0.27	0/1313
1	G	0.19	0/973	0.34	0/1313
1	H	0.10	0/973	0.23	0/1313
All	All	0.14	0/7688	0.27	0/10373

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	G	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	G	118	ARG	Sidechain

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	960	990	992	2	0
1	B	960	990	992	1	0
1	C	960	990	992	1	0
1	D	915	946	947	5	0
1	E	911	943	944	1	0
1	F	960	990	992	2	0
1	G	960	990	992	2	0
1	H	960	990	992	3	0
2	A	1	0	0	0	0
2	H	1	0	0	0	0
3	A	3	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	3	0	0	0	0
3	H	3	0	0	0	0
All	All	7602	7829	7843	16	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 1.

All (16) 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:D:59:ASP:O	1:D:63:VAL:HG23	2.09	0.53
1:C:18:ILE:CD1	1:C:28:VAL:HG11	2.42	0.49
1:D:77:ILE:C	1:D:78:ILE:HD12	2.40	0.47
1:D:65:LYS:HG3	1:D:93:LEU:HD23	1.97	0.47
1:F:61:MET:HE1	1:F:90:GLY:HA2	1.97	0.46
1:F:18:ILE:CD1	1:F:28:VAL:HG11	2.46	0.45
1:D:58:MET:SD	1:D:63:VAL:HG22	2.57	0.45
1:B:76:LEU:HD23	1:B:76:LEU:C	2.45	0.42
1:A:89:ASP:O	1:A:93:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:101:LYS:HA	1:H:102:PRO:C	2.45	0.42
1:D:6:MET:HE1	1:D:17:THR:HB	2.01	0.42
1:A:38:LEU:CD1	1:E:35:LEU:HD11	2.49	0.41
1:H:13:ILE:HD13	1:H:101:LYS:HD2	2.00	0.41
1:G:8:GLU:HG2	1:G:14:ALA:HB2	2.02	0.41
1:H:17:THR:HG22	1:H:21:LEU:HD12	2.03	0.40
1:G:58:MET:HE1	1:G:66:GLN:HG3	2.03	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	118/127 (93%)	114 (97%)	4 (3%)	0	100	100
1	B	118/127 (93%)	114 (97%)	4 (3%)	0	100	100
1	C	118/127 (93%)	117 (99%)	1 (1%)	0	100	100
1	D	111/127 (87%)	110 (99%)	1 (1%)	0	100	100
1	E	110/127 (87%)	110 (100%)	0	0	100	100
1	F	118/127 (93%)	117 (99%)	1 (1%)	0	100	100
1	G	118/127 (93%)	116 (98%)	2 (2%)	0	100	100
1	H	118/127 (93%)	113 (96%)	5 (4%)	0	100	100
All	All	929/1016 (91%)	911 (98%)	18 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	104/109 (95%)	104 (100%)	0	100	100
1	B	104/109 (95%)	104 (100%)	0	100	100
1	C	104/109 (95%)	104 (100%)	0	100	100
1	D	99/109 (91%)	99 (100%)	0	100	100
1	E	99/109 (91%)	99 (100%)	0	100	100
1	F	104/109 (95%)	104 (100%)	0	100	100
1	G	104/109 (95%)	104 (100%)	0	100	100
1	H	104/109 (95%)	104 (100%)	0	100	100
All	All	822/872 (94%)	822 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	25	GLN
1	B	83	GLN
1	B	86	ASN
1	C	62	GLN
1	D	62	GLN
1	D	92	ASN
1	H	25	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 ⓘ

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	120/127 (94%)	0.04	4 (3%) 49 47	21, 33, 59, 88	0
1	B	120/127 (94%)	0.37	14 (11%) 10 10	22, 35, 73, 109	0
1	C	120/127 (94%)	0.55	12 (10%) 14 13	25, 40, 72, 89	0
1	D	115/127 (90%)	0.52	9 (7%) 20 19	24, 40, 67, 79	0
1	E	114/127 (89%)	0.44	7 (6%) 28 26	24, 40, 64, 83	0
1	F	120/127 (94%)	0.70	14 (11%) 10 10	28, 44, 79, 103	0
1	G	120/127 (94%)	0.33	12 (10%) 14 13	22, 33, 62, 83	0
1	H	120/127 (94%)	0.29	11 (9%) 16 15	22, 36, 72, 82	0
All	All	949/1016 (93%)	0.40	83 (8%) 17 16	21, 38, 71, 109	0

All (83) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	120	GLY	6.8
1	G	120	GLY	6.6
1	C	59	ASP	5.9
1	B	52	ASP	5.7
1	B	120	GLY	5.2
1	E	70	ARG	5.1
1	F	120	GLY	5.0
1	H	120	GLY	4.8
1	G	52	ASP	4.6
1	E	119	SER	4.5
1	F	85	GLN	4.4
1	B	82	ASP	4.2
1	G	59	ASP	4.1
1	D	80	ALA	4.1
1	C	56	PRO	4.1
1	C	120	GLY	4.1

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Mol	Chain	Res	Type	RSRZ
1	E	80	ALA	4.0
1	B	81	ARG	4.0
1	E	59	ASP	3.9
1	C	81	ARG	3.7
1	C	54	GLY	3.6
1	D	101	LYS	3.5
1	D	57	MET	3.5
1	C	82	ASP	3.4
1	F	81	ARG	3.4
1	D	70	ARG	3.4
1	G	81	ARG	3.3
1	A	82	ASP	3.3
1	B	54	GLY	3.3
1	H	59	ASP	3.2
1	F	54	GLY	3.2
1	D	120	GLY	3.2
1	H	62	GLN	3.1
1	C	57	MET	3.1
1	E	101	LYS	3.1
1	F	118	ARG	3.0
1	C	60	GLY	2.9
1	B	59	ASP	2.8
1	E	86	ASN	2.8
1	H	85	GLN	2.8
1	H	93	LEU	2.8
1	C	1	MET	2.8
1	F	1	MET	2.8
1	C	53	LEU	2.7
1	G	56	PRO	2.6
1	D	118	ARG	2.6
1	G	118	ARG	2.6
1	F	11	PHE	2.6
1	B	56	PRO	2.5
1	F	86	ASN	2.5
1	H	83	GLN	2.5
1	F	83	GLN	2.5
1	F	57	MET	2.4
1	G	43	LYS	2.4
1	B	1	MET	2.4
1	H	118	ARG	2.4
1	H	1	MET	2.4
1	C	85	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
1	D	119	SER	2.3
1	B	84	LEU	2.3
1	B	102	PRO	2.3
1	B	80	ALA	2.3
1	F	56	PRO	2.3
1	E	62	GLN	2.3
1	A	1	MET	2.3
1	A	59	ASP	2.2
1	G	3	LYS	2.2
1	B	43	LYS	2.2
1	G	45	LYS	2.2
1	B	57	MET	2.2
1	B	98	TYR	2.2
1	G	83	GLN	2.2
1	H	69	GLN	2.2
1	D	86	ASN	2.1
1	F	59	ASP	2.1
1	G	101	LYS	2.1
1	C	11	PHE	2.1
1	D	93	LEU	2.1
1	H	70	ARG	2.1
1	F	117	ARG	2.1
1	F	104	GLU	2.0
1	H	71	ALA	2.0
1	G	10	ASN	2.0

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 oligosaccharides in this entry.

6.4 Ligands ⓘ

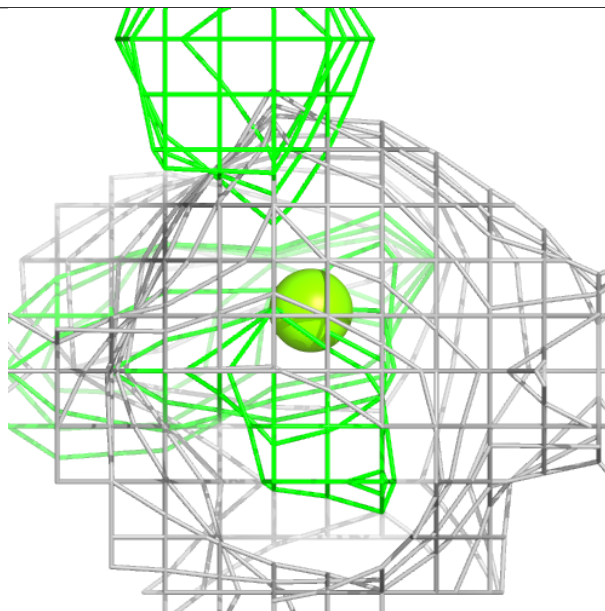
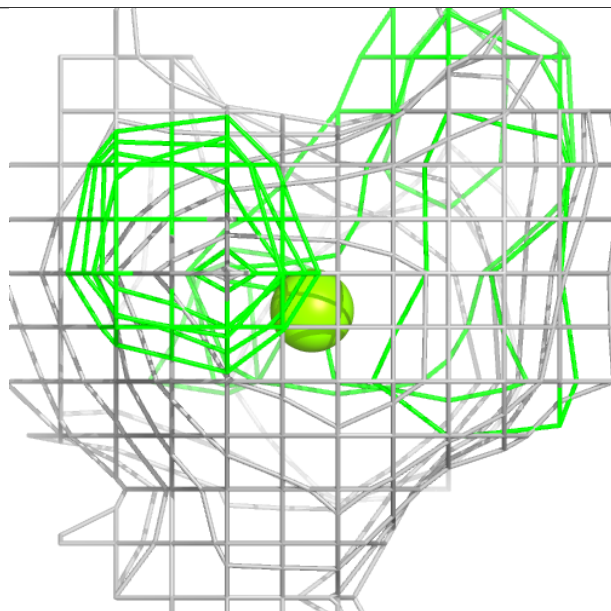
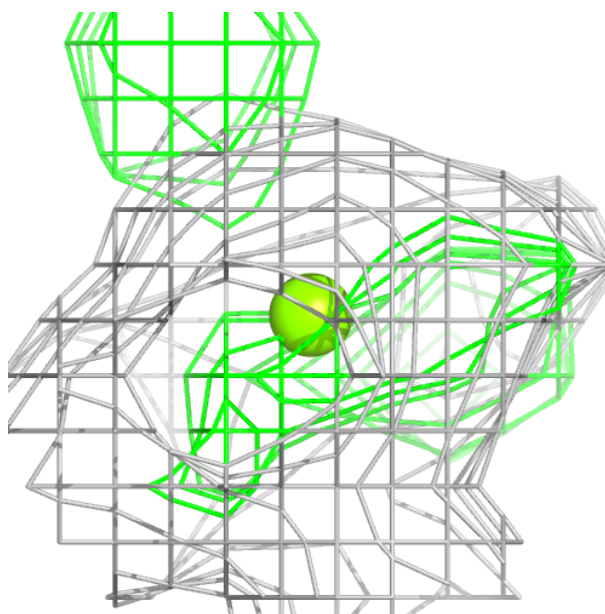
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	MG	A	201	1/1	0.94	0.20	23,23,23,23	0
2	MG	H	201	1/1	0.94	0.14	22,22,22,22	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

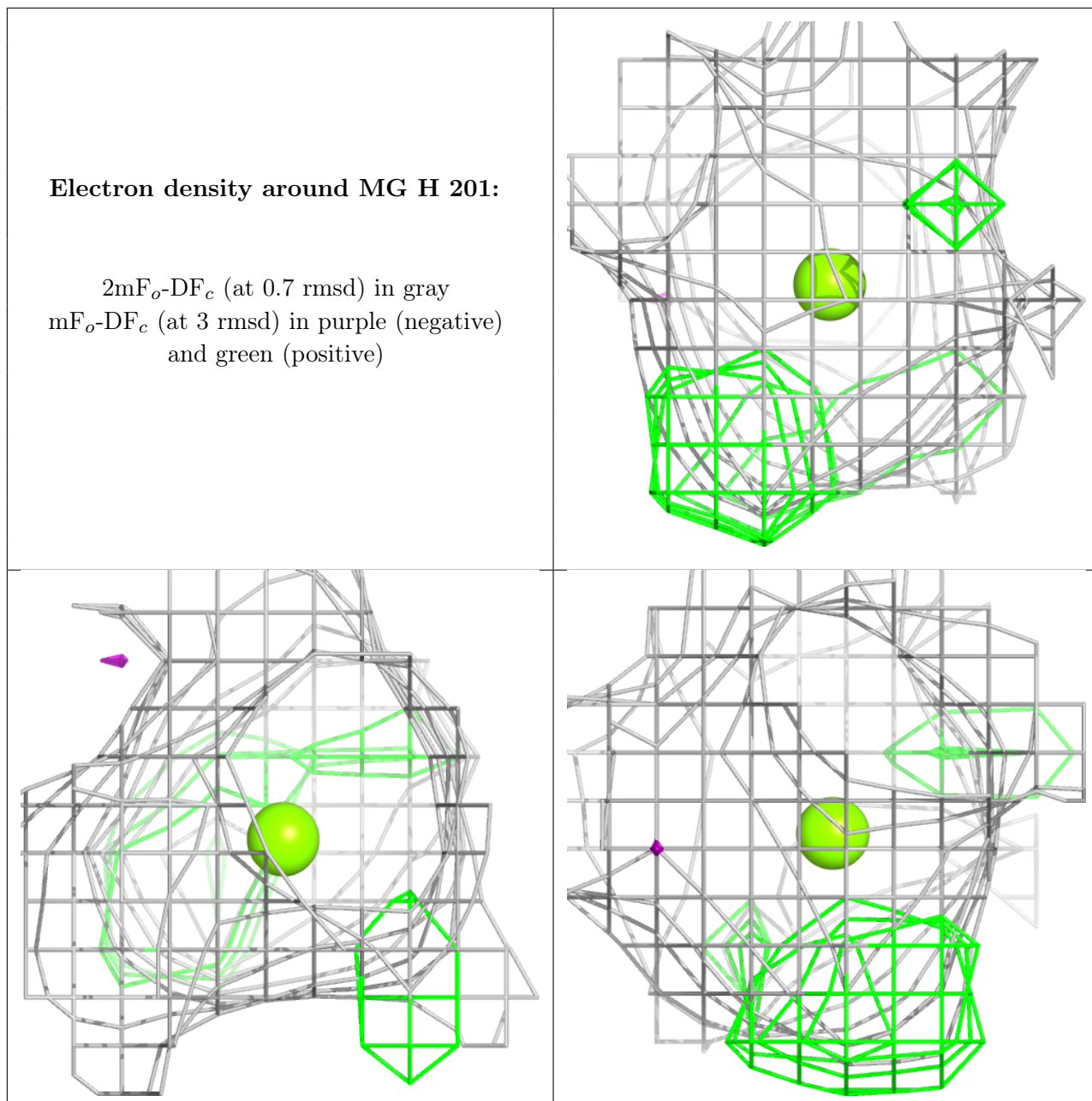
Electron density around MG A 201:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around MG H 201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.