



# wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 23, 2023 – 08:17 PM EDT

PDB ID : 5TJ2  
Title : Gasdermin-B C-terminal domain containing the polymorphism residues Gly299:Ser306 fused to maltose binding protein  
Authors : Chao, L.K.; Herzberg, O.  
Deposited on : 2016-10-03  
Resolution : 2.80 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto: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>.

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

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.35.1  
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

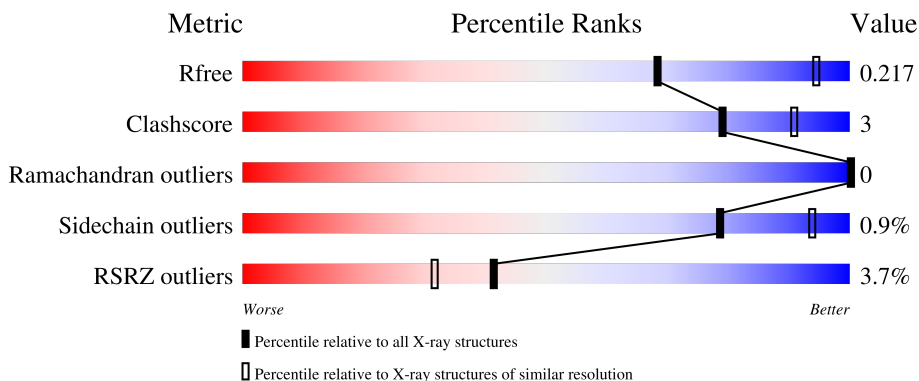
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.80 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.




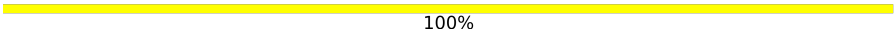
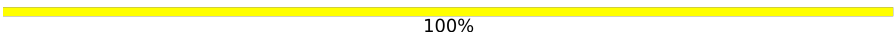
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	3140 (2.80-2.80)
Clashscore	141614	3569 (2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)

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  $\geq 3$ , 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	553	
1	B	553	
1	C	553	
1	D	553	
2	E	2	

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Mol	Chain	Length	Quality of chain
2	F	2	 50% 50%
2	G	2	 100%
2	H	2	 100%

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 15875 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 Sugar ABC transporter substrate-binding protein, Gasdermin-B fusion protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	534	4029	2579	659	778	13	0	0	0
1	B	536	4053	2598	663	779	13	0	0	0
1	C	529	3854	2480	624	738	12	0	0	0
1	D	528	3810	2447	623	728	12	0	0	0

There are 64 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	82	ALA	ASP	conflict	UNP A0A178SBV6
A	83	ALA	LYS	conflict	UNP A0A178SBV6
A	172	ALA	GLU	conflict	UNP A0A178SBV6
A	173	ALA	ASN	conflict	UNP A0A178SBV6
A	239	ALA	LYS	conflict	UNP A0A178SBV6
A	362	ALA	LYS	conflict	UNP A0A178SBV6
A	363	ALA	ASP	conflict	UNP A0A178SBV6
A	367	ASN	-	linker	UNP A0A178SBV6
A	368	ALA	-	linker	UNP A0A178SBV6
A	369	ALA	-	linker	UNP A0A178SBV6
A	370	ALA	-	linker	UNP A0A178SBV6
A	1306	SER	PRO	engineered mutation	UNP Q8TAX9
A	?	-	ASP	deletion	UNP Q8TAX9
A	?	-	MET	deletion	UNP Q8TAX9
A	?	-	ASP	deletion	UNP Q8TAX9
A	?	-	TYR	deletion	UNP Q8TAX9
B	82	ALA	ASP	conflict	UNP A0A178SBV6
B	83	ALA	LYS	conflict	UNP A0A178SBV6
B	172	ALA	GLU	conflict	UNP A0A178SBV6
B	173	ALA	ASN	conflict	UNP A0A178SBV6

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Chain	Residue	Modelled	Actual	Comment	Reference
B	239	ALA	LYS	conflict	UNP A0A178SBV6
B	362	ALA	LYS	conflict	UNP A0A178SBV6
B	363	ALA	ASP	conflict	UNP A0A178SBV6
B	367	ASN	-	linker	UNP A0A178SBV6
B	368	ALA	-	linker	UNP A0A178SBV6
B	369	ALA	-	linker	UNP A0A178SBV6
B	370	ALA	-	linker	UNP A0A178SBV6
B	1306	SER	PRO	engineered mutation	UNP Q8TAX9
B	?	-	ASP	deletion	UNP Q8TAX9
B	?	-	MET	deletion	UNP Q8TAX9
B	?	-	ASP	deletion	UNP Q8TAX9
B	?	-	TYR	deletion	UNP Q8TAX9
C	82	ALA	ASP	conflict	UNP A0A178SBV6
C	83	ALA	LYS	conflict	UNP A0A178SBV6
C	172	ALA	GLU	conflict	UNP A0A178SBV6
C	173	ALA	ASN	conflict	UNP A0A178SBV6
C	239	ALA	LYS	conflict	UNP A0A178SBV6
C	362	ALA	LYS	conflict	UNP A0A178SBV6
C	363	ALA	ASP	conflict	UNP A0A178SBV6
C	367	ASN	-	linker	UNP A0A178SBV6
C	368	ALA	-	linker	UNP A0A178SBV6
C	369	ALA	-	linker	UNP A0A178SBV6
C	370	ALA	-	linker	UNP A0A178SBV6
C	1306	SER	PRO	engineered mutation	UNP Q8TAX9
C	?	-	ASP	deletion	UNP Q8TAX9
C	?	-	MET	deletion	UNP Q8TAX9
C	?	-	ASP	deletion	UNP Q8TAX9
C	?	-	TYR	deletion	UNP Q8TAX9
D	82	ALA	ASP	conflict	UNP A0A178SBV6
D	83	ALA	LYS	conflict	UNP A0A178SBV6
D	172	ALA	GLU	conflict	UNP A0A178SBV6
D	173	ALA	ASN	conflict	UNP A0A178SBV6
D	239	ALA	LYS	conflict	UNP A0A178SBV6
D	362	ALA	LYS	conflict	UNP A0A178SBV6
D	363	ALA	ASP	conflict	UNP A0A178SBV6
D	367	ASN	-	linker	UNP A0A178SBV6
D	368	ALA	-	linker	UNP A0A178SBV6
D	369	ALA	-	linker	UNP A0A178SBV6
D	370	ALA	-	linker	UNP A0A178SBV6
D	1306	SER	PRO	engineered mutation	UNP Q8TAX9
D	?	-	ASP	deletion	UNP Q8TAX9
D	?	-	MET	deletion	UNP Q8TAX9

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Chain	Residue	Modelled	Actual	Comment	Reference
D	?	-	ASP	deletion	UNP Q8TAX9
D	?	-	TYR	deletion	UNP Q8TAX9

- Molecule 2 is an oligosaccharide called alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose.



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace
			Total	C	O			
2	E	2	23	12	11	0	0	0
2	F	2	23	12	11	0	0	0
2	G	2	23	12	11	0	0	0
2	H	2	23	12	11	0	0	0

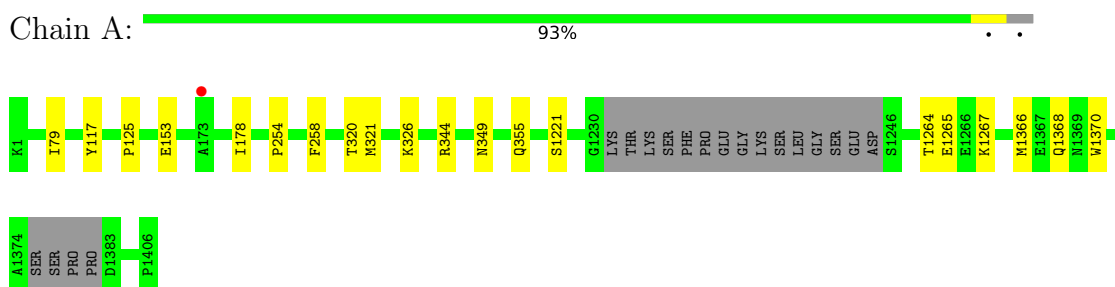
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	21	21	21	0	0
3	B	12	12	12	0	0
3	C	3	3	3	0	0
3	D	1	1	1	0	0

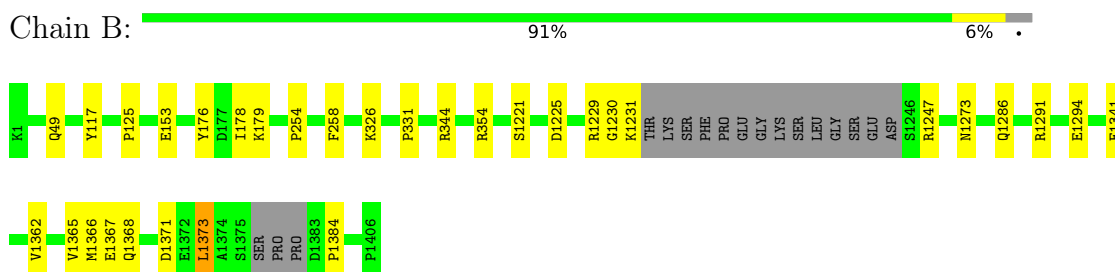
### 3 Residue-property plots [i](#)

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.

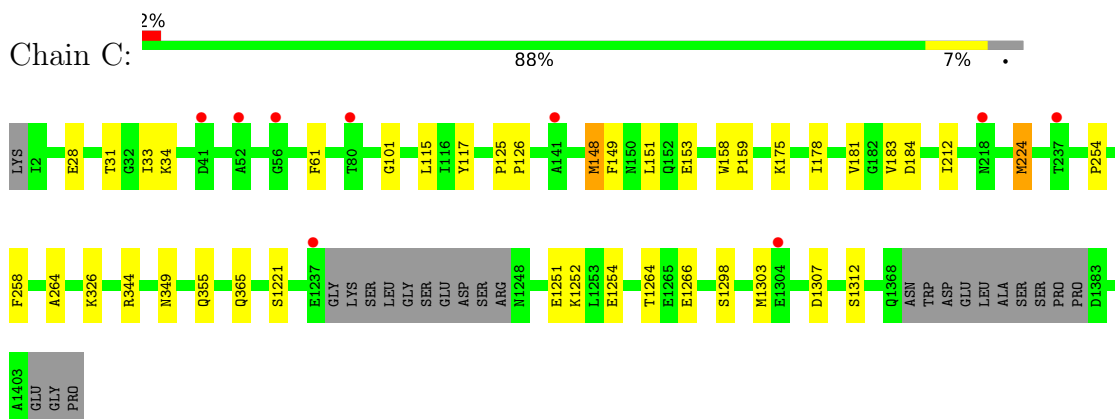
- Molecule 1: Sugar ABC transporter substrate-binding protein,Gasdermin-B fusion protein



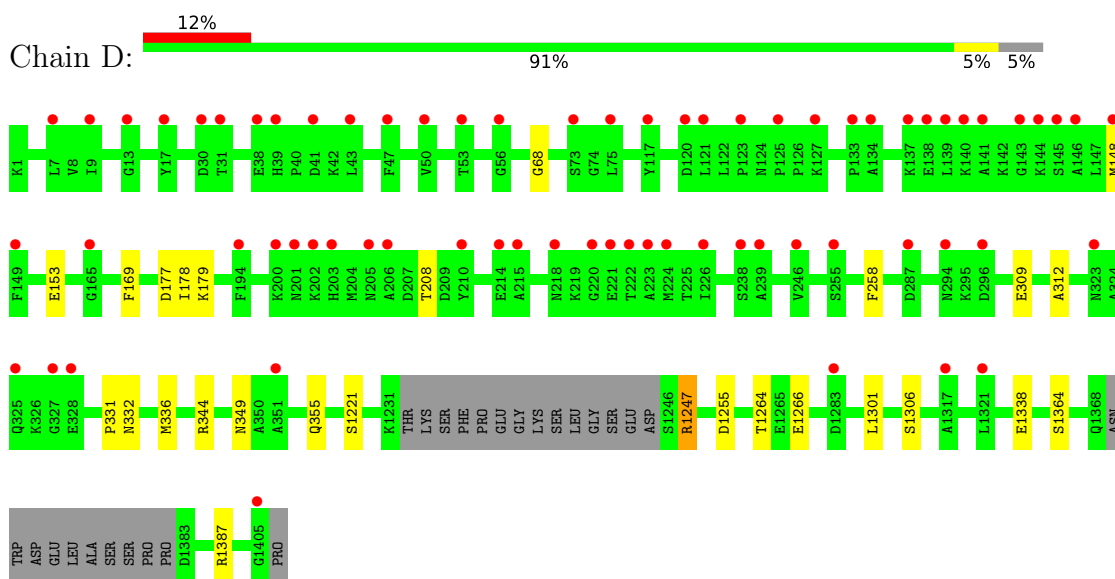
- Molecule 1: Sugar ABC transporter substrate-binding protein,Gasdermin-B fusion protein



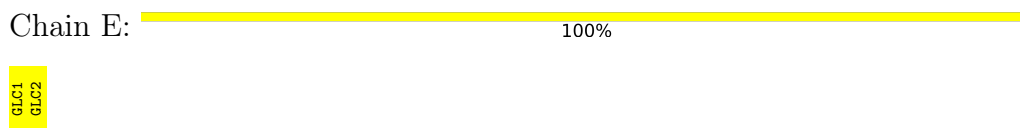
- Molecule 1: Sugar ABC transporter substrate-binding protein,Gasdermin-B fusion protein



- Molecule 1: Sugar ABC transporter substrate-binding protein,Gasdermin-B fusion protein



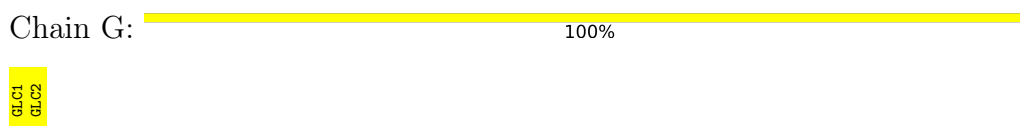
- Molecule 2: alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose



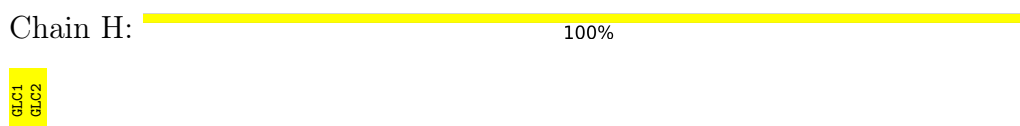
- Molecule 2: alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose



- Molecule 2: alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose



- Molecule 2: alpha-D-glucopyranose-(1-4)-alpha-D-glucopyranose





## 4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	144.04Å 152.75Å 255.77Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	42.50 – 2.80 42.50 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.6 (42.50-2.80) 99.4 (42.50-2.50)	Depositor EDS
$R_{merge}$	0.15	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.41 (at 2.51Å)	Xtrriage
Refinement program	REFMAC 5.8.0135	Depositor
R, $R_{free}$	0.213 , 0.252 0.216 , 0.217	Depositor DCC
$R_{free}$ test set	4823 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	40.6	Xtrriage
Anisotropy	0.034	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 23.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	15875	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	67.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.23% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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 [i](#)

### 5.1 Standard geometry [i](#)

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

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	0.62	0/4109	0.71	0/5588
1	B	0.61	0/4133	0.71	2/5616 (0.0%)
1	C	0.55	0/3933	0.70	3/5372 (0.1%)
1	D	0.49	0/3887	0.68	2/5316 (0.0%)
All	All	0.57	0/16062	0.70	7/21892 (0.0%)

There are no bond length outliers.

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1229	ARG	NE-CZ-NH1	7.04	123.82	120.30
1	C	1303	MET	CG-SD-CE	6.93	111.29	100.20
1	C	224	MET	CG-SD-CE	-6.70	89.49	100.20
1	D	1247	ARG	NE-CZ-NH1	6.51	123.56	120.30
1	D	1301	LEU	N-CA-C	-6.06	94.63	111.00

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	4029	0	3931	11	0
1	B	4053	0	3977	29	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	3854	0	3623	31	0
1	D	3810	0	3555	23	0
2	E	23	0	21	0	0
2	F	23	0	21	0	0
2	G	23	0	21	0	0
2	H	23	0	21	0	0
3	A	21	0	0	0	0
3	B	12	0	0	0	0
3	C	3	0	0	0	0
3	D	1	0	0	0	0
All	All	15875	0	15170	88	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 3.

The worst 5 of 88 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:B:1231:LYS:HE2	1:B:1231:LYS:HA	1.50	0.91
1:C:184:ASP:HB3	1:C:365:GLN:OE1	1.72	0.89
1:C:126:PRO:HD2	1:C:224:MET:CE	2.06	0.86
1:D:1247:ARG:NH2	1:D:1255:ASP:OD2	2.15	0.78
1:C:126:PRO:HD2	1:C:224:MET:HE1	1.68	0.75

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	528/553 (96%)	513 (97%)	15 (3%)	0	100	100
1	B	530/553 (96%)	516 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	523/553 (95%)	509 (97%)	14 (3%)	0	100	100
1	D	522/553 (94%)	508 (97%)	14 (3%)	0	100	100
All	All	2103/2212 (95%)	2046 (97%)	57 (3%)	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	404/446 (91%)	401 (99%)	3 (1%)	84	95
1	B	407/446 (91%)	401 (98%)	6 (2%)	65	89
1	C	359/446 (80%)	357 (99%)	2 (1%)	86	96
1	D	349/446 (78%)	346 (99%)	3 (1%)	78	94
All	All	1519/1784 (85%)	1505 (99%)	14 (1%)	78	94

5 of 14 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	1371	ASP
1	B	1373	LEU
1	D	1364	SER
1	D	258	PHE
1	D	1306	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	201	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](#)

8 monosaccharides are 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	GLC	E	1	2	12,12,12	0.68	0	17,17,17	1.40	3 (17%)
2	GLC	E	2	2	11,11,12	0.87	0	15,15,17	1.58	2 (13%)
2	GLC	F	1	2	12,12,12	0.75	0	17,17,17	0.82	0
2	GLC	F	2	2	11,11,12	0.74	0	15,15,17	1.72	1 (6%)
2	GLC	G	1	2	12,12,12	0.82	0	17,17,17	1.03	2 (11%)
2	GLC	G	2	2	11,11,12	0.63	0	15,15,17	1.61	1 (6%)
2	GLC	H	1	2	12,12,12	0.99	0	17,17,17	1.68	3 (17%)
2	GLC	H	2	2	11,11,12	0.39	0	15,15,17	1.64	4 (26%)

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	GLC	E	1	2	-	2/2/22/22	0/1/1/1
2	GLC	E	2	2	-	1/2/19/22	0/1/1/1
2	GLC	F	1	2	-	2/2/22/22	0/1/1/1
2	GLC	F	2	2	-	0/2/19/22	0/1/1/1
2	GLC	G	1	2	-	2/2/22/22	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GLC	G	2	2	-	0/2/19/22	0/1/1/1
2	GLC	H	1	2	-	1/2/22/22	0/1/1/1
2	GLC	H	2	2	-	0/2/19/22	0/1/1/1

There are no bond length outliers.

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	2	GLC	C1-O5-C5	5.15	119.17	112.19
2	G	2	GLC	C1-O5-C5	4.81	118.70	112.19
2	E	2	GLC	C1-O5-C5	4.68	118.53	112.19
2	H	1	GLC	C3-C4-C5	3.91	117.22	110.24
2	H	1	GLC	C4-C3-C2	3.53	116.99	110.82

There are no chirality outliers.

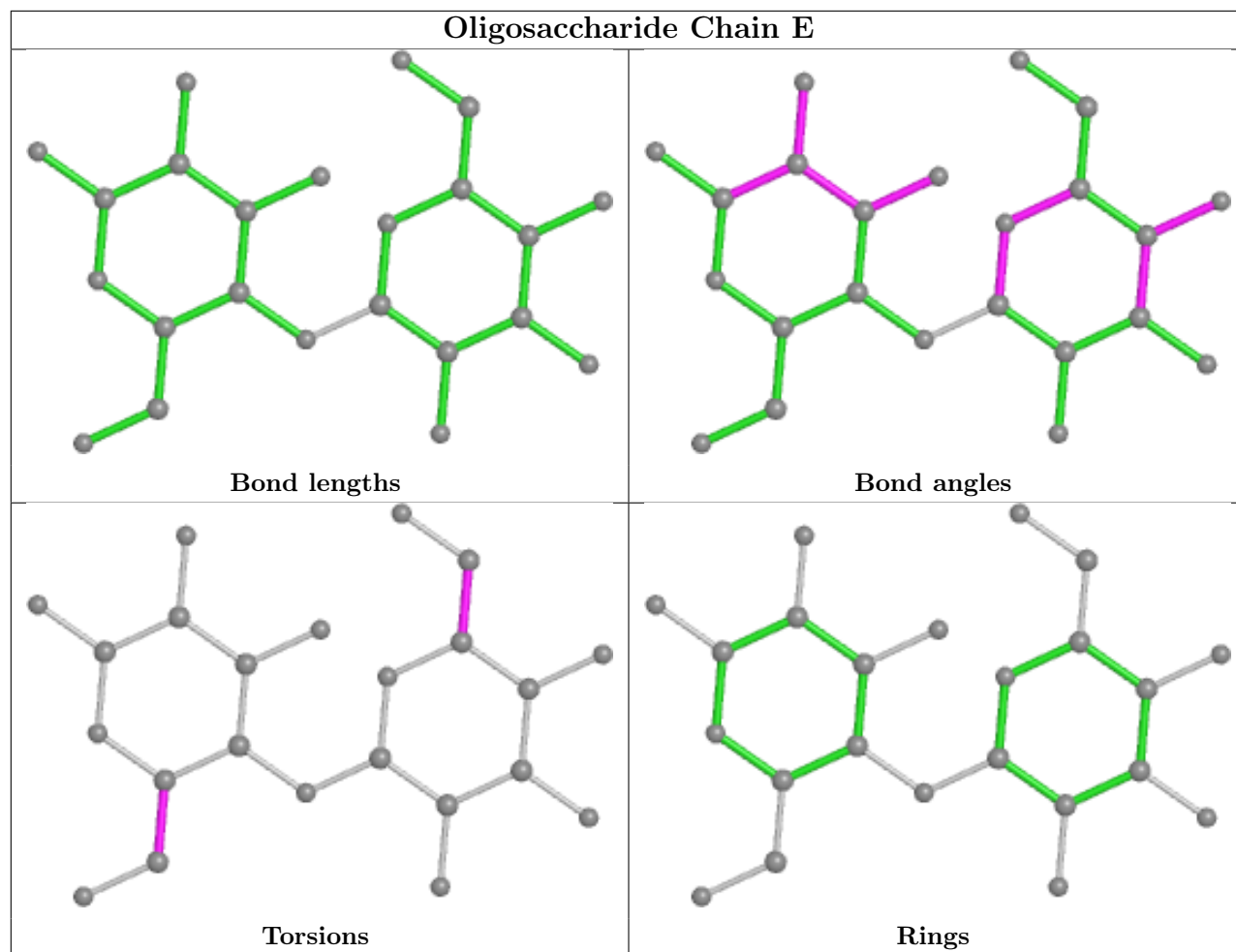
5 of 8 torsion outliers are listed below:

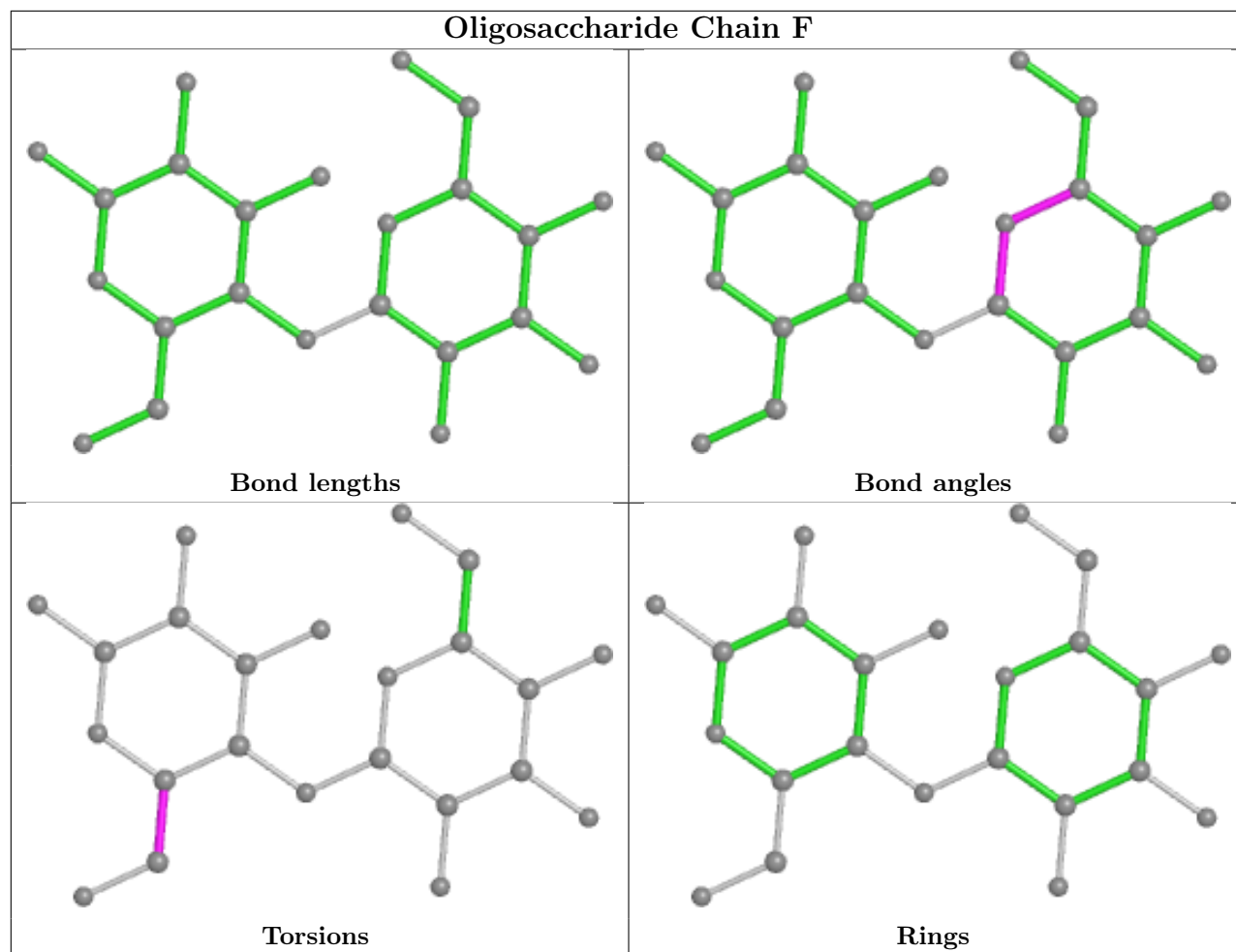
Mol	Chain	Res	Type	Atoms
2	G	1	GLC	O5-C5-C6-O6
2	E	1	GLC	C4-C5-C6-O6
2	G	1	GLC	C4-C5-C6-O6
2	E	1	GLC	O5-C5-C6-O6
2	F	1	GLC	C4-C5-C6-O6

There are no ring outliers.

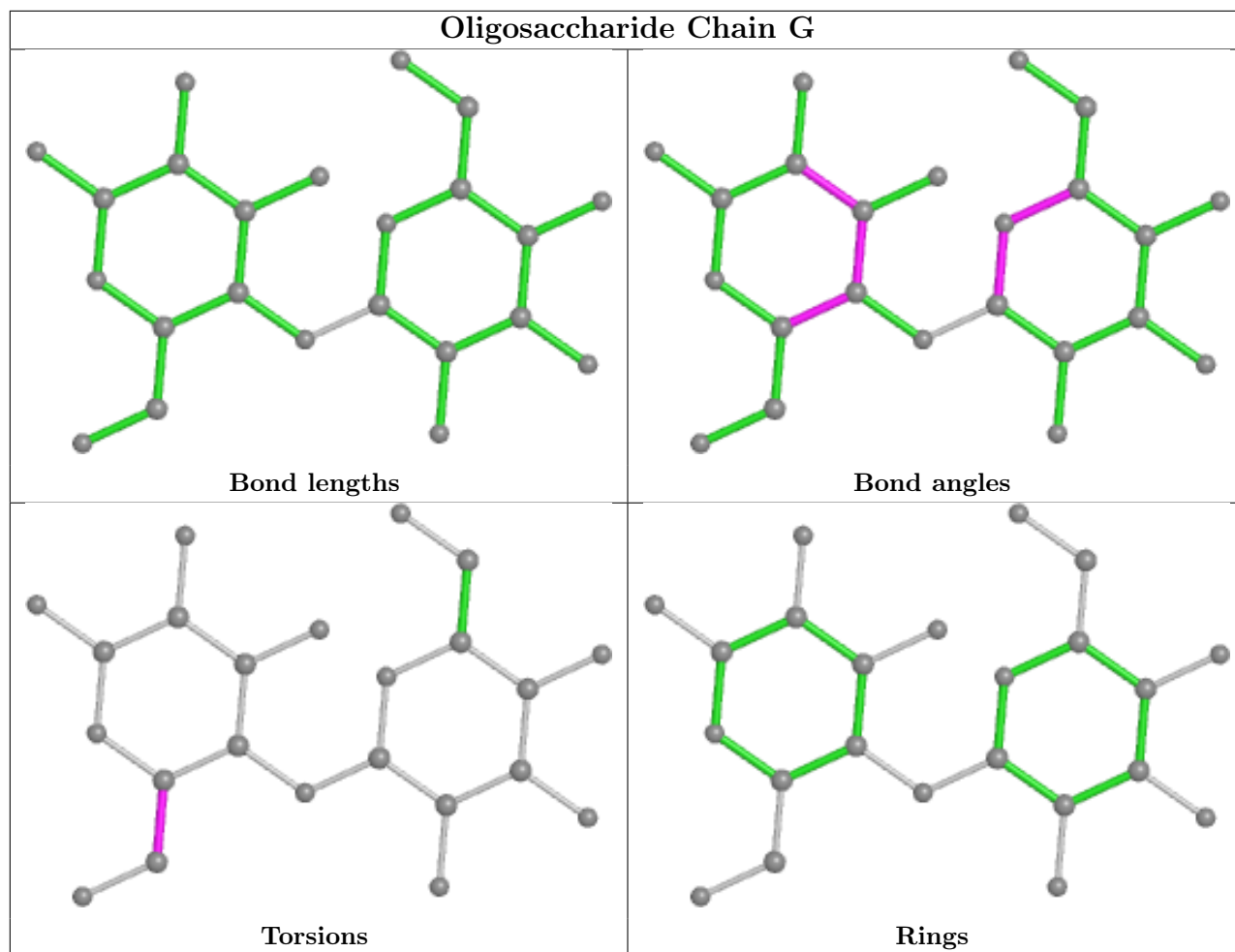
No monomer is involved in short contacts.

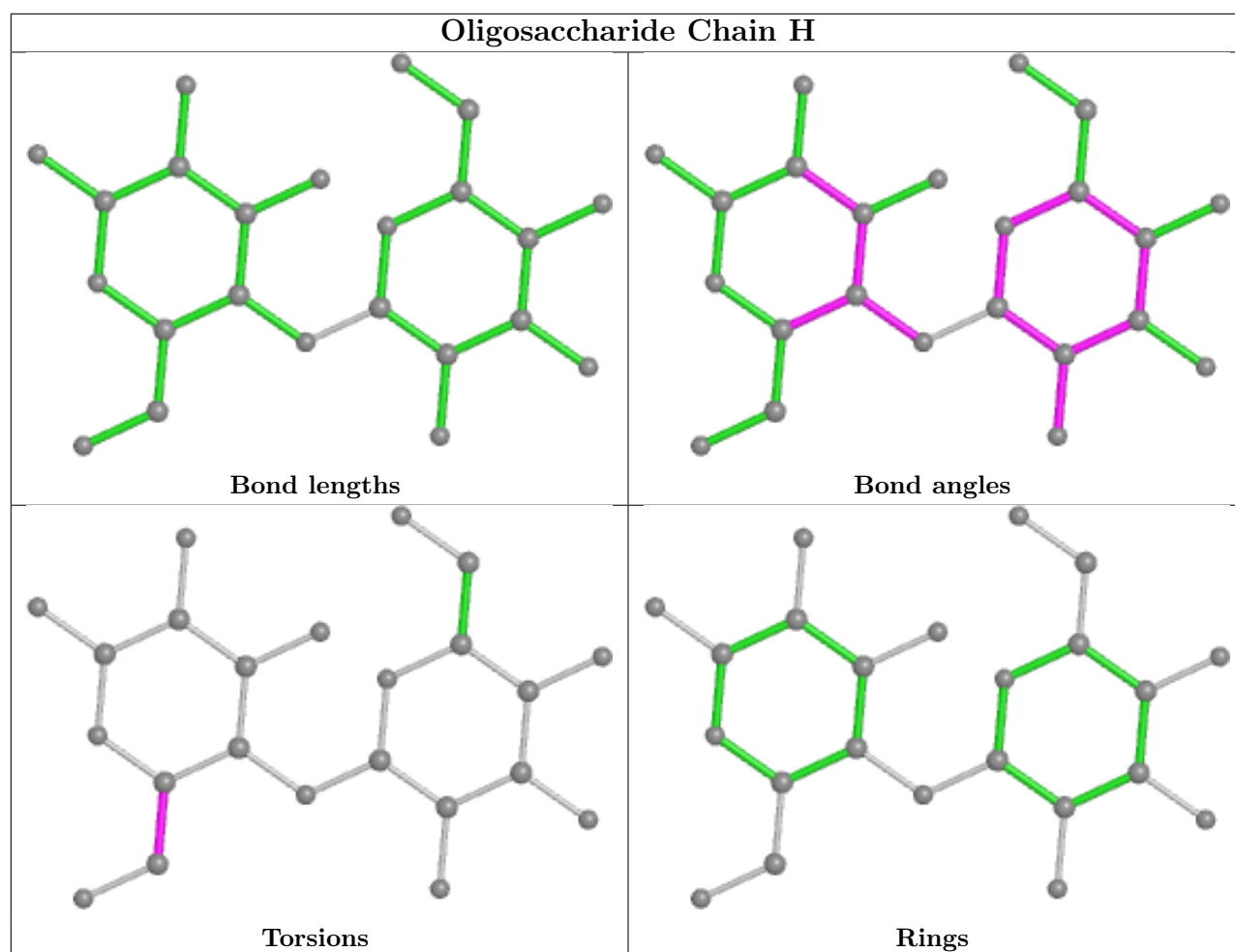
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.











## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 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 [i](#)

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

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	534/553 (96%)	-0.63	1 (0%) 95 94	23, 39, 71, 120	0
1	B	536/553 (96%)	-0.63	0 100 100	22, 40, 72, 124	0
1	C	529/553 (95%)	-0.29	9 (1%) 70 63	33, 74, 112, 133	0
1	D	528/553 (95%)	0.51	69 (13%) 3 2	41, 107, 158, 215	0
All	All	2127/2212 (96%)	-0.26	79 (3%) 41 31	22, 58, 132, 215	0

The worst 5 of 79 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	220	GLY	10.6
1	D	41	ASP	9.0
1	D	221	GLU	8.3
1	D	141	ALA	8.1
1	D	121	LEU	7.4

### 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](#)

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, 95<sup>th</sup> 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.

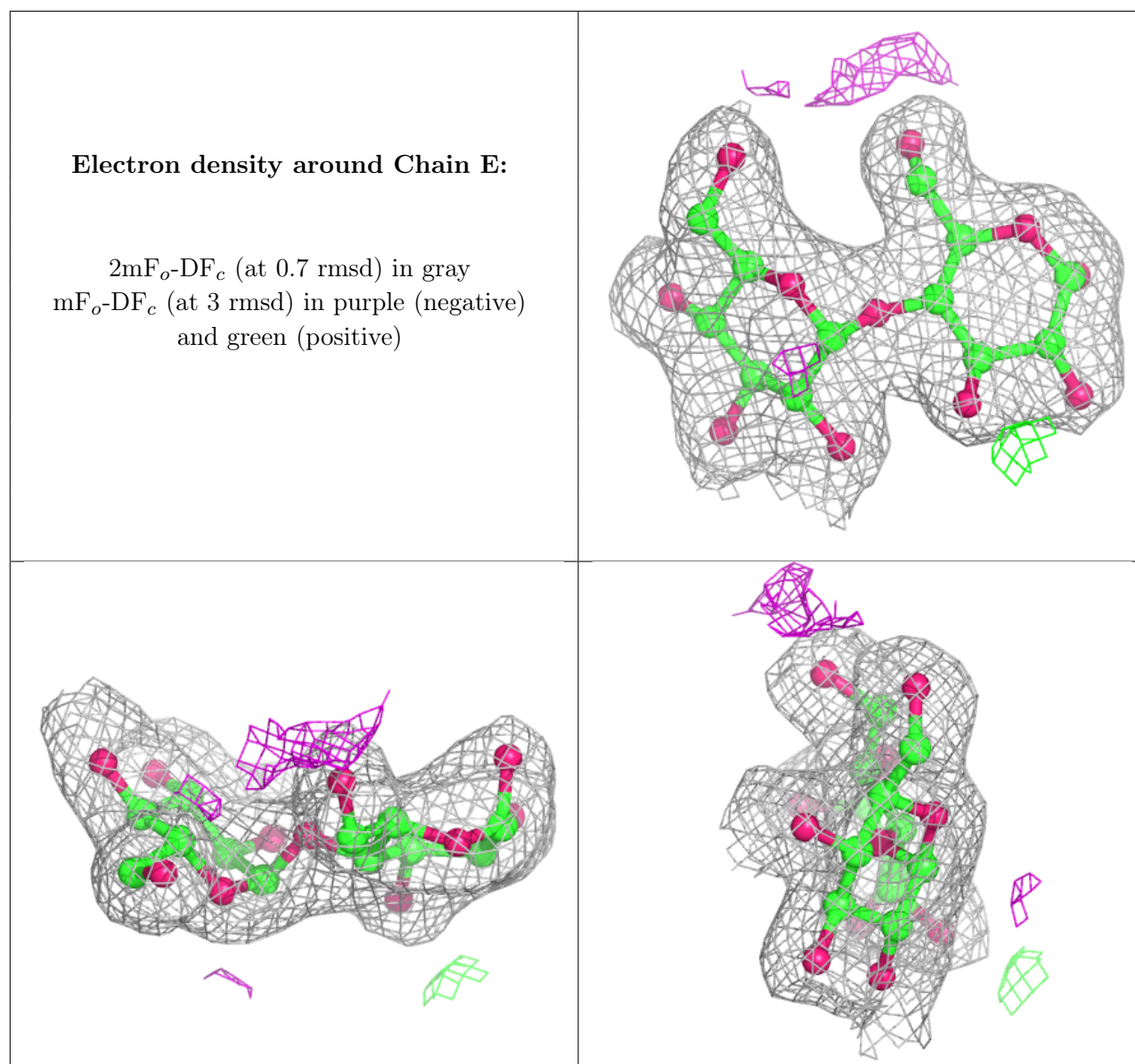
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
2	GLC	H	1	12/12	0.84	0.15	84,103,123,128	0
2	GLC	H	2	11/12	0.91	0.10	96,104,108,109	0

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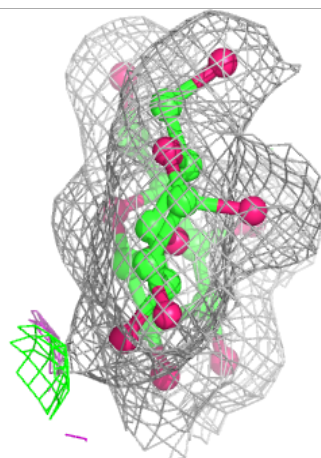
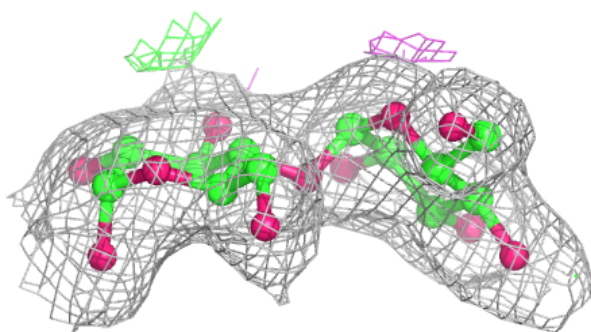
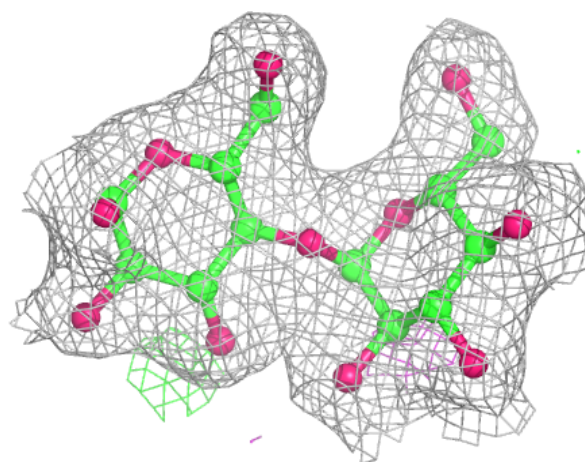
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	GLC	F	1	12/12	0.96	0.12	27,31,35,36	0
2	GLC	G	1	12/12	0.96	0.14	52,66,79,79	0
2	GLC	E	1	12/12	0.97	0.13	32,35,38,43	0
2	GLC	G	2	11/12	0.98	0.13	43,48,53,58	0
2	GLC	F	2	11/12	0.98	0.10	24,27,29,32	0
2	GLC	E	2	11/12	0.98	0.10	28,30,33,36	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.



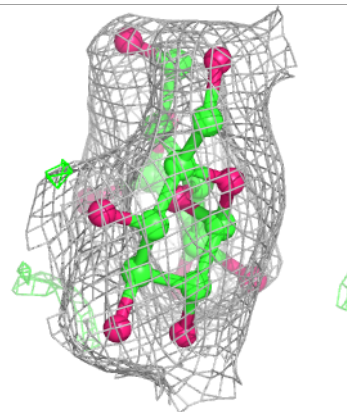
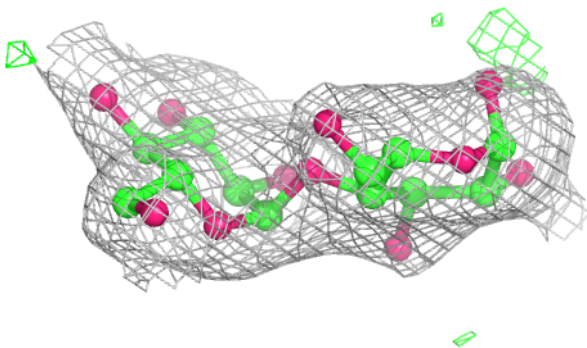
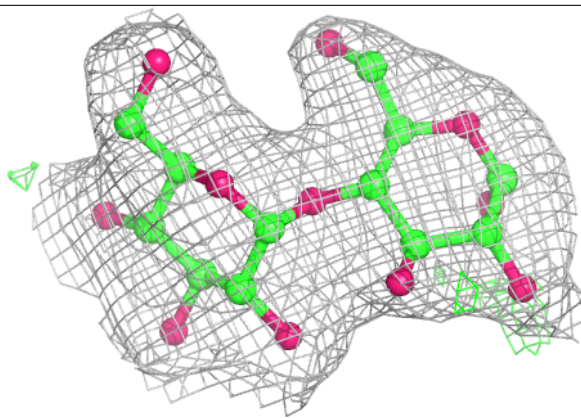
**Electron density around Chain F:**

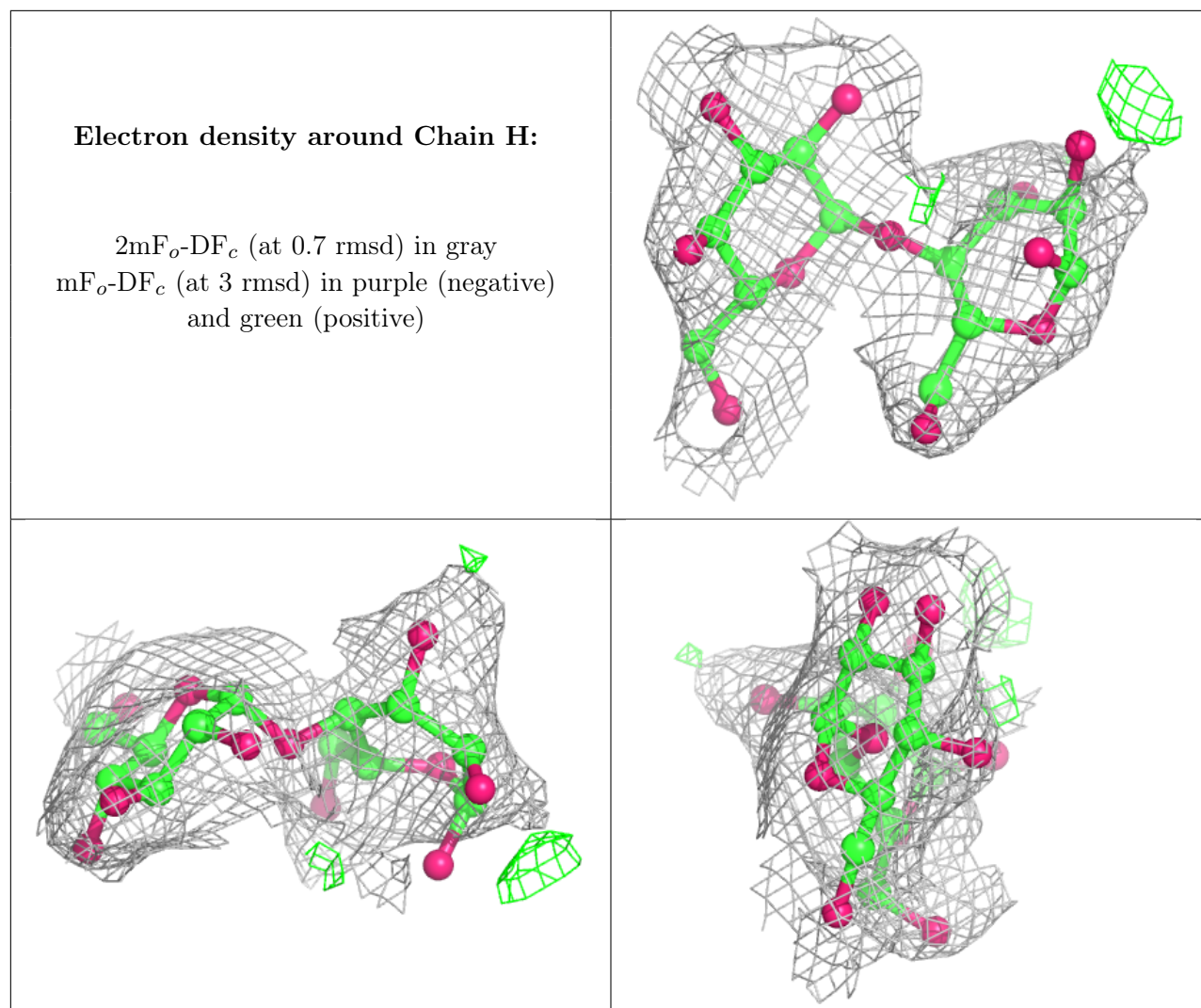
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around Chain G:**

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





## 6.4 Ligands [i](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.