WORLDWIDE wwPDB PROTEIN DATA BANK

wwPDB X-ray Structure Validation Summary Report (i)

Nov 1, 2023 – 06:49 PM EDT

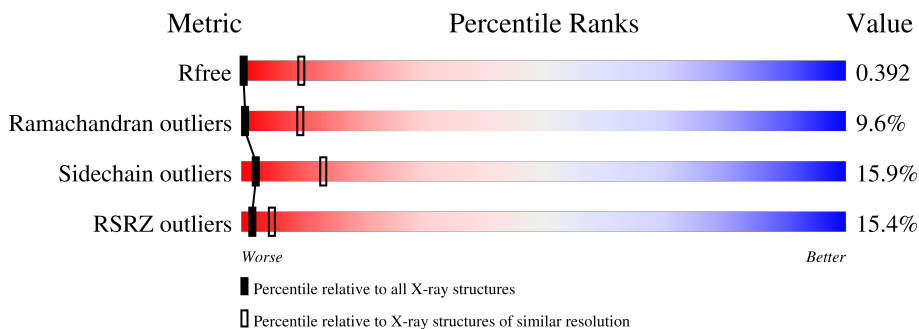|		
PDB ID	:	3PXI
Title	:	Structure of MecA108:ClpC
Authors	:	Wang, F.; Mei, Z.Q.; Wang, J.W.; Shi, Y.G.
Deposited on	:	2010-12-09
Resolution	:	6.93 Å(reported)

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 6.93 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		0.392
Ramachandran outliers		9.6%
Sidechain outliers		15.9%
RSRZ outliers		15.4%

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	1003 (9.70-3.90)
Ramachandran outliers	138981	1001 (9.70-3.90)
Sidechain outliers	138945	1001 (9.70-3.86)
RSRZ outliers	127900	1004 (9.50-3.80)

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 >=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	111	8% / 61% 23% · 15%
1	b	111	30% / 67% 18% 15%
1	c	111	18% / 67% 18% 15%
2	A	758	14% / 73% 19% · 7%
2	B	758	15% / 71% 20% · 7%
2	C	758	12% / 74% 19% · 6%

2 Entry composition ⓘ

There are 2 unique types of molecules in this entry. The entry contains 18645 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 Adapter protein mecA 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	a	94	Total	C	N	O	S	0	0	0
			755	486	118	149	2			
1	b	94	Total	C	N	O	S	0	0	0
			756	485	120	149	2			
1	c	94	Total	C	N	O	S	0	0	0
			763	491	120	150	2			

- Molecule 2 is a protein called Negative regulator of genetic competence ClpC/MecB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	A	708	Total	C	N	O	S	0	0	0
			5455	3394	993	1055	13			
2	B	704	Total	C	N	O	S	0	0	0
			5437	3385	985	1054	13			
2	C	711	Total	C	N	O	S	0	0	0
			5479	3410	993	1063	13			

There are 162 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	VAL	deletion	UNP P37571
A	?	-	VAL	deletion	UNP P37571
A	?	-	ALA	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571
A	?	-	THR	deletion	UNP P37571
A	280	ALA	GLU	engineered mutation	UNP P37571
A	?	-	LEU	deletion	UNP P37571
A	?	-	HIS	deletion	UNP P37571
A	?	-	THR	deletion	UNP P37571
A	?	-	LEU	deletion	UNP P37571
A	?	-	ILE	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571

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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	ALA	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571
A	?	-	ALA	deletion	UNP P37571
A	?	-	GLU	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571
A	?	-	ARG	deletion	UNP P37571
A	?	-	LEU	deletion	UNP P37571
A	?	-	VAL	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571
A	?	-	SER	deletion	UNP P37571
A	?	-	PRO	deletion	UNP P37571
A	?	-	PRO	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571
A	?	-	TYR	deletion	UNP P37571
A	?	-	VAL	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571
A	?	-	TYR	deletion	UNP P37571
A	?	-	ASP	deletion	UNP P37571
A	?	-	GLU	deletion	UNP P37571
A	618	ALA	GLU	engineered mutation	UNP P37571
A	?	-	LEU	deletion	UNP P37571
A	?	-	LYS	deletion	UNP P37571
A	?	-	ARG	deletion	UNP P37571
A	?	-	ASN	deletion	UNP P37571
A	?	-	LYS	deletion	UNP P37571
A	?	-	TYR	deletion	UNP P37571
A	?	-	VAL	deletion	UNP P37571
A	?	-	GLY	deletion	UNP P37571
A	?	-	PHE	deletion	UNP P37571
A	?	-	ASN	deletion	UNP P37571
A	?	-	VAL	deletion	UNP P37571
A	?	-	GLN	deletion	UNP P37571
A	?	-	ASP	deletion	UNP P37571
A	?	-	GLU	deletion	UNP P37571
A	?	-	THR	deletion	UNP P37571
A	?	-	GLN	deletion	UNP P37571
A	?	-	ASN	deletion	UNP P37571
A	?	-	HIS	deletion	UNP P37571
A	?	-	LYS	deletion	UNP P37571
A	?	-	ASP	deletion	UNP P37571
A	?	-	MET	deletion	UNP P37571

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Chain	Residue	Modelled	Actual	Comment	Reference
B	?	-	VAL	deletion	UNP P37571
B	?	-	VAL	deletion	UNP P37571
B	?	-	ALA	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	THR	deletion	UNP P37571
B	280	ALA	GLU	engineered mutation	UNP P37571
B	?	-	LEU	deletion	UNP P37571
B	?	-	HIS	deletion	UNP P37571
B	?	-	THR	deletion	UNP P37571
B	?	-	LEU	deletion	UNP P37571
B	?	-	ILE	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	ALA	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	ALA	deletion	UNP P37571
B	?	-	GLU	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	ARG	deletion	UNP P37571
B	?	-	LEU	deletion	UNP P37571
B	?	-	VAL	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	SER	deletion	UNP P37571
B	?	-	PRO	deletion	UNP P37571
B	?	-	PRO	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	TYR	deletion	UNP P37571
B	?	-	VAL	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	TYR	deletion	UNP P37571
B	?	-	ASP	deletion	UNP P37571
B	?	-	GLU	deletion	UNP P37571
B	618	ALA	GLU	engineered mutation	UNP P37571
B	?	-	LEU	deletion	UNP P37571
B	?	-	LYS	deletion	UNP P37571
B	?	-	ARG	deletion	UNP P37571
B	?	-	ASN	deletion	UNP P37571
B	?	-	LYS	deletion	UNP P37571
B	?	-	TYR	deletion	UNP P37571
B	?	-	VAL	deletion	UNP P37571
B	?	-	GLY	deletion	UNP P37571
B	?	-	PHE	deletion	UNP P37571

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Chain	Residue	Modelled	Actual	Comment	Reference
B	?	-	ASN	deletion	UNP P37571
B	?	-	VAL	deletion	UNP P37571
B	?	-	GLN	deletion	UNP P37571
B	?	-	ASP	deletion	UNP P37571
B	?	-	GLU	deletion	UNP P37571
B	?	-	THR	deletion	UNP P37571
B	?	-	GLN	deletion	UNP P37571
B	?	-	ASN	deletion	UNP P37571
B	?	-	HIS	deletion	UNP P37571
B	?	-	LYS	deletion	UNP P37571
B	?	-	ASP	deletion	UNP P37571
B	?	-	MET	deletion	UNP P37571
C	?	-	VAL	deletion	UNP P37571
C	?	-	VAL	deletion	UNP P37571
C	?	-	ALA	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	THR	deletion	UNP P37571
C	280	ALA	GLU	engineered mutation	UNP P37571
C	?	-	LEU	deletion	UNP P37571
C	?	-	HIS	deletion	UNP P37571
C	?	-	THR	deletion	UNP P37571
C	?	-	LEU	deletion	UNP P37571
C	?	-	ILE	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	ALA	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	ALA	deletion	UNP P37571
C	?	-	GLU	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	ARG	deletion	UNP P37571
C	?	-	LEU	deletion	UNP P37571
C	?	-	VAL	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	SER	deletion	UNP P37571
C	?	-	PRO	deletion	UNP P37571
C	?	-	PRO	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	TYR	deletion	UNP P37571
C	?	-	VAL	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	TYR	deletion	UNP P37571

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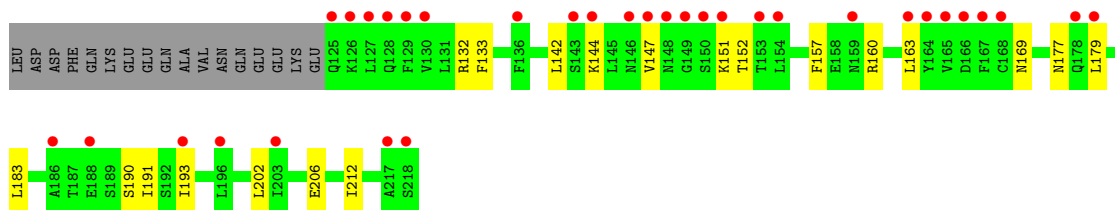| Chain	Residue	Modelled	Actual	Comment	Reference
C	?	-	ASP	deletion	UNP P37571
C	?	-	GLU	deletion	UNP P37571
C	618	ALA	GLU	engineered mutation	UNP P37571
C	?	-	LEU	deletion	UNP P37571
C	?	-	LYS	deletion	UNP P37571
C	?	-	ARG	deletion	UNP P37571
C	?	-	ASN	deletion	UNP P37571
C	?	-	LYS	deletion	UNP P37571
C	?	-	TYR	deletion	UNP P37571
C	?	-	VAL	deletion	UNP P37571
C	?	-	GLY	deletion	UNP P37571
C	?	-	PHE	deletion	UNP P37571
C	?	-	ASN	deletion	UNP P37571
C	?	-	VAL	deletion	UNP P37571
C	?	-	GLN	deletion	UNP P37571
C	?	-	ASP	deletion	UNP P37571
C	?	-	GLU	deletion	UNP P37571
C	?	-	THR	deletion	UNP P37571
C	?	-	GLN	deletion	UNP P37571
C	?	-	ASN	deletion	UNP P37571
C	?	-	HIS	deletion	UNP P37571
C	?	-	LYS	deletion	UNP P37571
C	?	-	ASP	deletion	UNP P37571
C	?	-	MET	deletion	UNP P37571

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: Adapter protein mecA 1

Chain a:
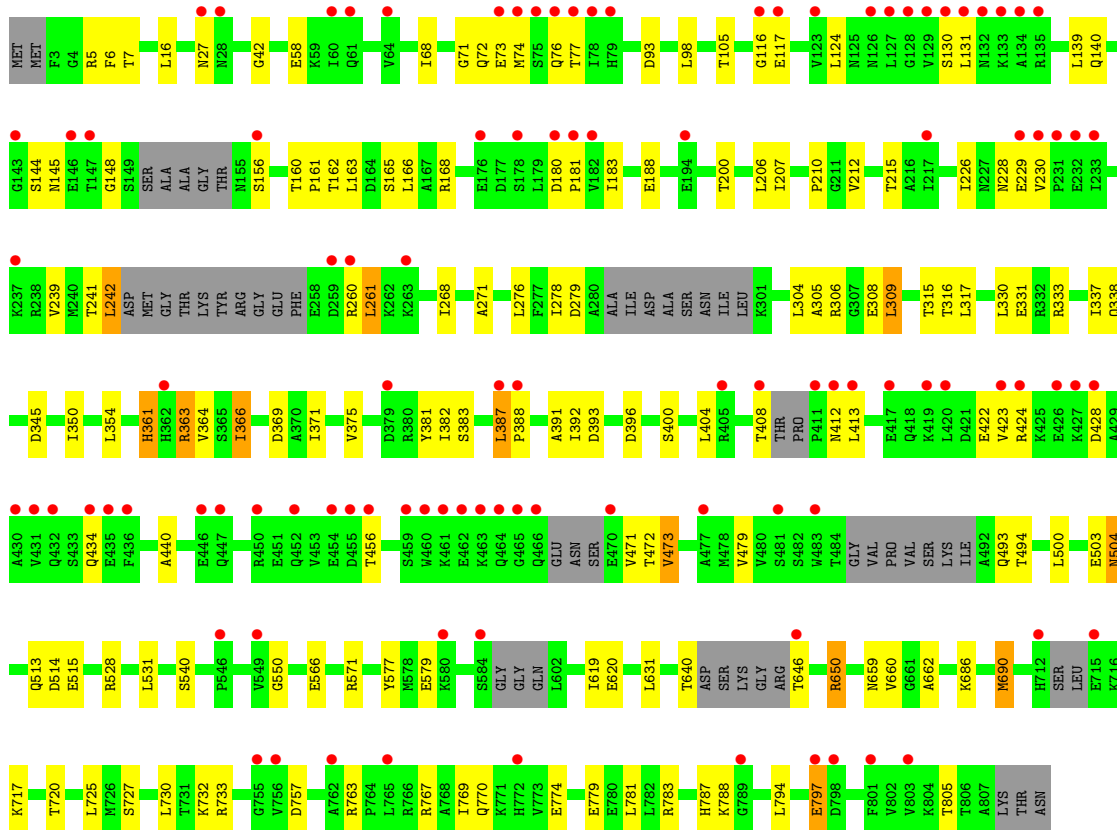

• Molecule 1: Adapter protein mecA 1

Chain b:

• Molecule 1: Adapter protein mecA 1

Chain c:

• Molecule 2: Negative regulator of genetic competence ClpC/MecB

Chain A:

• Molecule 2: Negative regulator of genetic competence ClpC/MecB

D625 V626 F627 L631 T640 ASP SER LYS GLY ARG T646 R650 N659 V660 G661 A662 E664 K686 D687 K688 V689 M690 G691 E692 L693 A696 F697 R698 I708 I709 V710 F711 H712 SER LEU E715 K716 H717 H718 L719 T720 V723 S724 L725 M726 S727 L730 T731 K732 S740

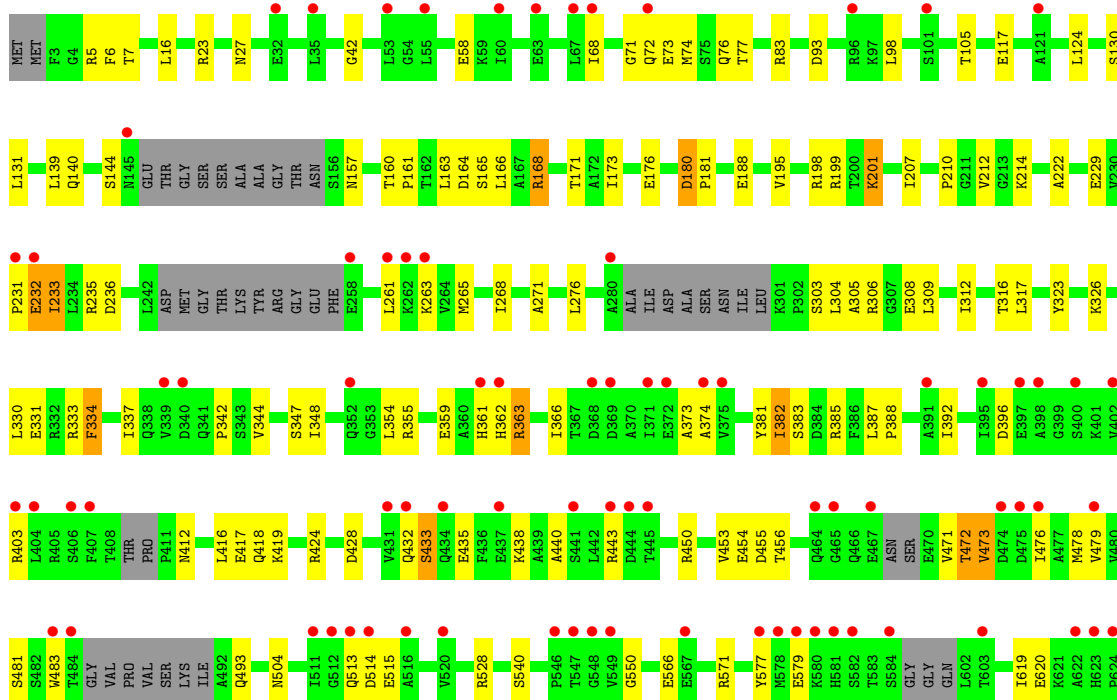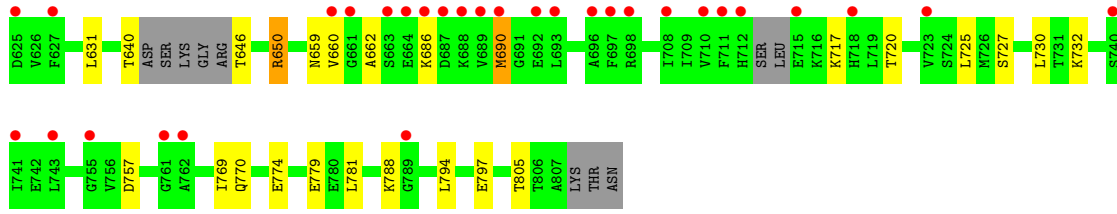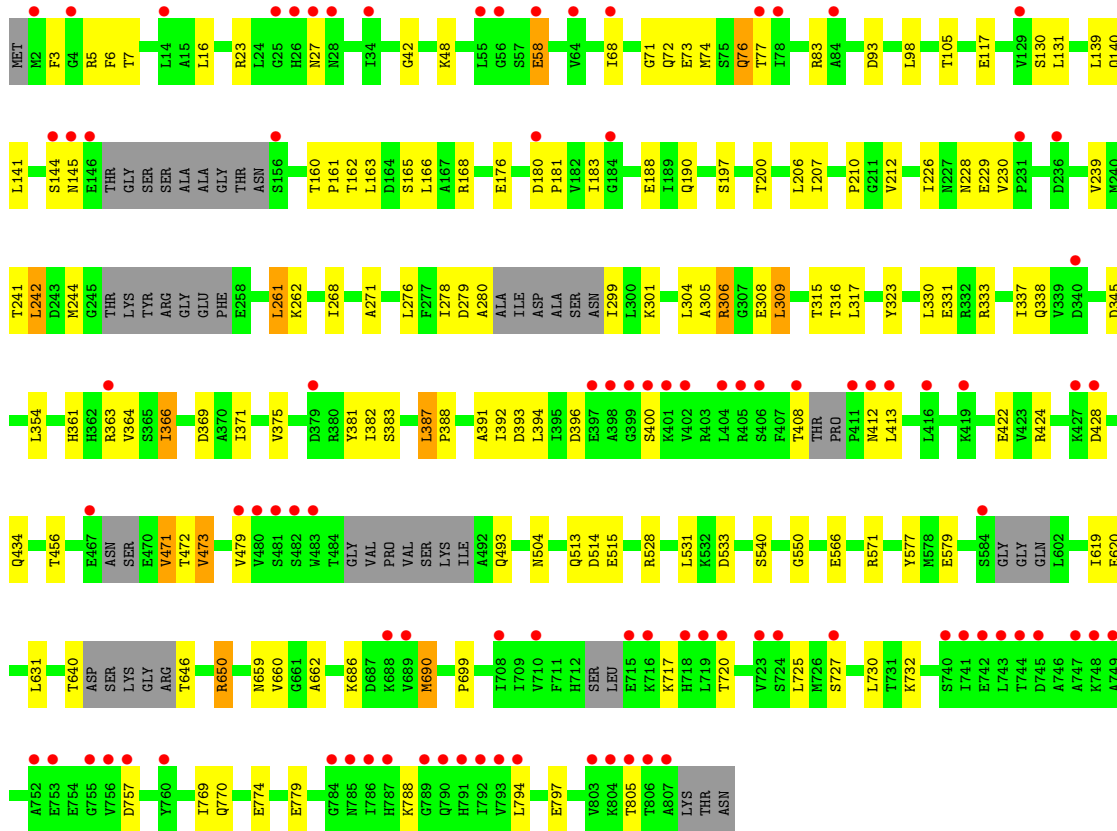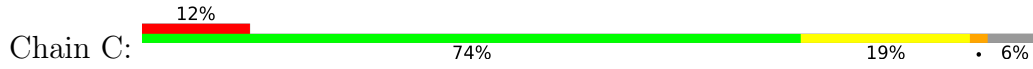I741 E742 L743 G755 V756 D757 G761 A762 I769 Q770 E774 E779 E780 L781 K788 G789 L794 E797 T805 T806 A807 LYS THR ASN

• Molecule 2: Negative regulator of genetic competence ClpC/MecB

Chain C:

12%

74% 19% • 6%

MET M2 F3 G4 R5 F6 T7 L14 A15 L16 R23 L24 G25 H26 N27 N28 I34 G42 K48 L55 G56 S57 E58 V64 I68 G71 Q72 E73 M74 S75 Q76 T77 I78 R83 A84 D93 L98 T105 E117 V129 S130 L131 L139 Q140

L141 S144 N145 E146 THR GLY SER SER ALA ALA GLY THR ASN S156 T160 P161 T162 L163 D164 S165 L166 A167 R168 E176 D180 P181 V182 I183 G184 E188 I189 Q190 S197 T200 L206 I207 P210 G211 V212 I226 N227 N228 E229 V230 P231 D236 V239 M240

T241 L242 D243 M244 G245 THR LYS TYR ARG GLY GLU PHE E258 L261 K262 I268 A271 L276 F277 I278 D279 A280 ALA ILE ASP ALA SER ASN I299 L300 K301 L304 A305 R306 G307 E308 L309 T315 T316 L317 Y323 L330 E331 R332 R333 I337 Q338 V339 D340 D345

L354 H361 H362 R363 V364 S365 I366 D369 A370 I371 V375 D379 R380 Y381 I382 S383 L387 P388 A391 I392 D393 L394 I395 D396 E397 A398 G399 S400 K401 V402 R403 L404 R405 S406 F407 T408 THR PRO P411 N412 L413 L416 K419 E422 V423 R424 K427 D428

Q434 T456 E467 ASN SER E470 V471 T472 V473 V479 V480 S481 S482 W483 T484 GLY VAL PRO VAL SER LYS ILE A492 Q493 N504 Q513 D514 E515 R528 L531 K532 D533 S540 G550 E566 R571 Y577 M578 E579 S584 GLY GLY GLN L602 I619 E620

L631 T640 ASP SER LYS GLY ARG T646 R650 N659 V660 G661 A662 K686 D687 K688 V689 M690 P699 I708 I709 V710 F711 H712 SER LEU E715 K716 K717 H718 L719 T720 V723 S724 L725 M726 S727 L730 T731 K732 S740 I741 E742 L743 T744 D745 A746 A747 K748 A749

A752 E753 E754 G755 V756 D757 Y760 I769 Q770 E774 E779 G784 N785 I786 H787 K788 Q790 H791 I792 V793 L794 E797 V803 K804 T805 T806 A807 LYS THR ASN

4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α, β, γ	141.81Å 141.81Å 656.08Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	49.15 – 6.93 49.15 – 6.93	Depositor EDS
% Data completeness (in resolution range)	99.2 (49.15-6.93) 99.6 (49.15-6.93)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	5.84 (at 6.68Å)	Xtriage
Refinement program	PHENIX (phenix.refine: dev_596)	Depositor
R, R_{free}	0.407 , 0.422 0.372 , 0.392	Depositor DCC
R_{free} test set	333 reflections (4.75%)	wwPDB-VP
Wilson B-factor (Å^2)	188.0	Xtriage
Anisotropy	0.700	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 751.9	EDS
L-test for twinning[2]	$< |L| > = 0.28, < L^2 > = 0.12$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.67	EDS
Total number of atoms	18645	wwPDB-VP
Average B, all atoms (Å^2)	642.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.28% 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)

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	0.48	0/768	0.66	1/1035 (0.1%)
1	b	0.56	0/768	0.67	0/1035
1	c	0.64	0/776	0.68	0/1046
2	A	0.52	1/5498 (0.0%)	0.70	2/7386 (0.0%)
2	B	0.58	2/5483 (0.0%)	0.80	2/7369 (0.0%)
2	C	0.53	1/5526 (0.0%)	0.72	2/7431 (0.0%)
All	All	0.55	4/18819 (0.0%)	0.73	7/25302 (0.0%)

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
2	A	0	1
2	C	0	1
All	All	0	2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	515	GLU	CG-CD	5.50	1.60	1.51
2	A	515	GLU	CG-CD	5.49	1.60	1.51
2	C	515	GLU	CG-CD	5.42	1.60	1.51
2	B	334	PHE	CA-CB	5.26	1.65	1.53

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

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	161	PRO	N-CA-CB	6.09	110.61	103.30
2	C	161	PRO	N-CA-CB	5.88	110.35	103.30
2	B	161	PRO	N-CA-CB	5.25	109.60	103.30
1	a	138	ASP	CB-CG-OD1	5.23	123.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	515	GLU	OE1-CD-OE2	-5.15	117.12	123.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A	210	PRO	Peptide
2	C	210	PRO	Peptide

5.2 Too-close contacts ⓘ

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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	92/111 (83%)	76 (83%)	12 (13%)	4 (4%)	2	22
1	b	92/111 (83%)	76 (83%)	12 (13%)	4 (4%)	2	22
1	c	92/111 (83%)	75 (82%)	13 (14%)	4 (4%)	2	22
2	A	686/758 (90%)	493 (72%)	127 (18%)	66 (10%)	0	10
2	B	682/758 (90%)	491 (72%)	115 (17%)	76 (11%)	0	7
2	C	691/758 (91%)	492 (71%)	130 (19%)	69 (10%)	0	9
All	All	2335/2607 (90%)	1703 (73%)	409 (18%)	223 (10%)	0	10

5 of 223 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	a	169	ASN
2	A	42	GLY

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Mol	Chain	Res	Type
2	A	98	LEU
2	A	144	SER
2	A	183	ILE

5.3.2   Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	83/104 (80%)	67 (81%)	16 (19%)	1	8
1	b	84/104 (81%)	68 (81%)	16 (19%)	1	8
1	c	85/104 (82%)	69 (81%)	16 (19%)	1	9
2	A	571/645 (88%)	487 (85%)	84 (15%)	3	15
2	B	573/645 (89%)	476 (83%)	97 (17%)	2	12
2	C	576/645 (89%)	492 (85%)	84 (15%)	3	15
All	All	1972/2247 (88%)	1659 (84%)	313 (16%)	2	13

5 of 313 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	C	7	THR
2	C	528	ARG
2	C	93	ASP
2	C	315	THR
2	C	686	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 61 such sidechains are listed below:

Mol	Chain	Res	Type
2	B	137	GLN
2	C	341	GLN
2	B	361	HIS
2	C	338	GLN
2	C	659	ASN

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 ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	A	1
2	B	1
2	C	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	664:GLU	C	686:LYS	N	7.77
1	B	664:GLU	C	686:LYS	N	7.77
1	C	664:GLU	C	686:LYS	N	7.77

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	94/111 (84%)	0.76	9 (9%)	8	11	583, 624, 738, 792	0
1	b	94/111 (84%)	1.55	33 (35%)	0	2	543, 603, 730, 756	0
1	c	94/111 (84%)	1.14	20 (21%)	0	3	523, 590, 707, 731	0
2	A	708/758 (93%)	0.97	104 (14%)	2	5	508, 632, 810, 849	0
2	B	704/758 (92%)	0.92	110 (15%)	2	5	523, 661, 747, 823	0
2	C	711/758 (93%)	0.86	94 (13%)	3	7	426, 601, 842, 889	0
All	All	2405/2607 (92%)	0.94	370 (15%)	2	5	426, 636, 815, 889	0

The worst 5 of 370 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	A	411	PRO	7.9
2	A	231	PRO	7.4
2	A	465	GLY	7.2
2	A	466	GLN	6.9
2	C	720	THR	6.2

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 ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.