

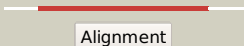

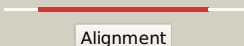






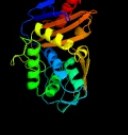
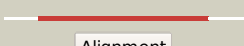




















Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2911_(dacB2)_3218349_3219224
Date	Thu Aug 8 16:20:06 BST 2019
Unique Job ID	f10f8e27b439db73

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2bcfA_	 Alignment		100.0	97	PDB header: hydrolase Chain: A; PDB Molecule: probable d-alanyl-d-alanine carboxypeptidase dacb2; PDBTitle: crystal structure of a evolved putative penicillin-binding protein2 homolog, rv2911, from mycobacterium tuberculosis.
2	c4pprA_	 Alignment		100.0	45	PDB header: hydrolase Chain: A; PDB Molecule: penicillin-binding protein dacb1; PDBTitle: crystal structure of mycobacterium tuberculosis d,d-peptidase rv33302 in complex with meropenem
3	c6osuA_	 Alignment		100.0	25	PDB header: hydrolase Chain: A; PDB Molecule: d-alanyl-d-alanine carboxypeptidase (penicillin binding) PDBTitle: crystal structure of the d-alanyl-d-alanine carboxypeptidase dacd from2 francisella tularensis
4	c3mfdB_	 Alignment		100.0	29	PDB header: hydrolase Chain: B; PDB Molecule: d-alanyl-d-alanine carboxypeptidase dacb; PDBTitle: the structure of the beta-lactamase superfamily domain of d-alanyl-d-2 alanine carboxypeptidase from bacillus subtilis
5	c4k91A_	 Alignment		100.0	27	PDB header: hydrolase Chain: A; PDB Molecule: d-ala-d-ala-carboxypeptidase; PDBTitle: crystal structure of penicillin-binding protein 5 (pbp5) from2 pseudomonas aeruginosa in apo state
6	c3it9B_	 Alignment		100.0	31	PDB header: hydrolase Chain: B; PDB Molecule: d-alanyl-d-alanine carboxypeptidase dacc; PDBTitle: crystal structure of penicillin-binding protein 6 (pbp6) from e. coli2 in apo state
7	c1z6fA_	 Alignment		100.0	31	PDB header: hydrolase Chain: A; PDB Molecule: penicillin-binding protein 5; PDBTitle: crystal structure of penicillin-binding protein 5 from e. coli in2 complex with a boronic acid inhibitor
8	c5fsrB_	 Alignment		100.0	30	PDB header: hydrolase Chain: B; PDB Molecule: d-alanyl-d-alanine carboxypeptidase dacd; PDBTitle: crystal structure of penicillin binding protein 6b from2 escherichia coli
9	c1tvfA_	 Alignment		100.0	21	PDB header: penicillin binding Chain: A; PDB Molecule: penicillin binding protein 4; PDBTitle: crystal structure of penicillin-binding protein 4 (pbp4)2 from staphylococcus aureus
10	c3a3jA_	 Alignment		100.0	27	PDB header: hydrolase Chain: A; PDB Molecule: pbp5; PDBTitle: crystal structures of penicillin binding protein 5 from haemophilus2 influenzae
11	c3humB_	 Alignment		100.0	22	PDB header: hydrolase/antibiotics Chain: B; PDB Molecule: penicillin-binding protein 4; PDBTitle: crystal structure of penicillin binding protein 4 from staphylococcus2 aureus col in complex with cefotaxime

12	c1xp4C	Alignment		100.0	24	PDB header: hydrolase Chain: C: PDB Molecule: d-alanyl-d-alanine carboxypeptidase; PDBTitle: crystal structure of a peptidoglycan synthesis regulatory2 factor (pbp3) from streptococcus pneumoniae
13	c6aziA	Alignment		100.0	26	PDB header: hydrolase Chain: A: PDB Molecule: d-alanyl-d-alanine endopeptidase; PDBTitle: 1.75 angstrom resolution crystal structure of d-alanyl-d-alanine2 endopeptidase from enterobacter cloacae in complex with covalently3 bound boronic acid
14	d1tvfa2	Alignment		100.0	23	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
15	d3beca2	Alignment		100.0	31	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
16	d1es5a	Alignment		100.0	31	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
17	d1xp4a2	Alignment		100.0	22	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
18	c5tr7A	Alignment		100.0	29	PDB header: penicillin-binding protein Chain: A: PDB Molecule: d-alanyl-d-alanine carboxypeptidase; PDBTitle: crystal structure of a putative d-alanyl-d-alanine carboxypeptidase2 from vibrio cholerae o1 biovar eltor str. n16961
19	c5zqeC	Alignment		100.0	29	PDB header: antibiotic Chain: C: PDB Molecule: lmo2812 protein; PDBTitle: crystal structure of penicillin-binding protein d2 from listeria2 monocytogenes in the cefuroxime bound form
20	c2v20A	Alignment		100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase tem; PDBTitle: structure of a tem-1 beta-lactamase insertant allosterically regulated2 by kanamycin and anions. complex with sulfate.
21	c5e2eB	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase precursor blaA from yersinia2 enterocolitica
22	c3cg5A	Alignment	not modelled	100.0	15	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the covalent adduct formed between tb2 b-lactamase and clavulanate
23	d1n9ba	Alignment	not modelled	100.0	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
24	c3qhyA	Alignment	not modelled	100.0	15	PDB header: hydrolase/hydrolase inhibitor Chain: A: PDB Molecule: beta-lactamase; PDBTitle: structural, thermodynamic and kinetic analysis of the picomolar2 binding affinity interaction of the beta-lactamase inhibitor protein-3 ii (blip-ii) with class a beta-lactamases
25	c4hesA	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase class a-like protein; PDBTitle: structure of a beta-lactamase class a-like protein from veillonella2 parvula.
26	d1m40a	Alignment	not modelled	100.0	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
27	d1o7ea	Alignment	not modelled	100.0	20	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
28	c5hw3A	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a beta lactamase from burkholderia vietnamiensis

29	c1i2sA	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: beta-lactamase from bacillus licheniformis bs3
30	d1i2sa	Alignment	not modelled	100.0	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
31	c4mxB	Alignment	not modelled	100.0	16	PDB header: hydrolase/antibiotic Chain: B: PDB Molecule: bel-1; PDBTitle: crystal structure of extended-spectrum beta-lactamase bel-1 in complex2 with imipenem
32	c5tfqA	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a representative of class a beta-lactamase from2 bacteroides cellulosilyticus dsm 14838
33	d1hzoa	Alignment	not modelled	100.0	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
34	c6nj1A	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of class a beta-lactamase from clostridium kluyveri2 dsm 555
35	c3dw0B	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: B: PDB Molecule: class a carbapenemase kpc-2; PDBTitle: crystal structure of the class a carbapenemase kpc-2 at 1.62 angstrom resolution
36	c4yfmA	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: class a beta-lactamase from mycobacterium abscessus
37	c5hx9A	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from burkholderia vietnamiensis
38	c5vpqA	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from burkholderia phymatum
39	c6niqB	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the putative class a beta-lactamase penp from2 rhodopseudomonas palustris
40	c4eqiA	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: carbapenem-hydrolyzing beta-lactamase sfc-1; PDBTitle: crystal structure of serratia fonticola carbapenemase sfc-1
41	c2j7vA	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: tl12115 protein; PDBTitle: structure of pbp-a
42	d2cc1a1	Alignment	not modelled	100.0	23	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
43	c4b88A	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: ancestral (gnca) beta-lactamase class a
44	d1alqa	Alignment	not modelled	100.0	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
45	d1dy6a	Alignment	not modelled	100.0	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
46	d1bsga	Alignment	not modelled	100.0	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
47	c4dxkB	Alignment	not modelled	100.0	17	PDB header: sugar binding protein, hydrolase Chain: B: PDB Molecule: maltose-binding periplasmic protein, beta-lactamase tem PDBTitle: 2.29a structure of the engineered mbp tem-1 fusion protein rg13 in2 complex with zinc, p1 space group
48	d1iysa	Alignment	not modelled	100.0	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
49	c1w7fB	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the class a beta-lactamase bs32 inhibited with isocitrate
50	d1buea	Alignment	not modelled	100.0	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
51	c3lezA	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a halotolerant bacterial beta-lactamase
52	c3cjmA	Alignment	not modelled	100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: putative beta-lactamase; PDBTitle: crystal structure of putative beta-lactamase (np_815223.1) from2 enterococcus faecalis v583 at 1.50 a resolution
53	d1g6aa	Alignment	not modelled	100.0	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
54	c4ewfA	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: the crystal structure of beta-lactamase from sphaerobacter2 thermophilus dsm 20745
						PDB header: hydrolase

55	c5e43A	Alignment	not modelled	100.0	17	Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase sros_5706 from streptosporangium2 roseum
56	c3p09B	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from francisella tularensis
57	c2ov5A	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: carbapenemase; PDBTitle: crystal structure of the kpc-2 carbapenemase
58	c3w4pA	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of peni beta-lactamase from burkholderia2 pseudomallei at ph7.5
59	c2qpnA	Alignment	not modelled	100.0	14	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase ges-1; PDBTitle: ges-1 beta-lactamase
60	c3w4qC	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: C: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of pena beta-lactamase from burkholderia multivorans2 at ph4.2
61	d1djaa	Alignment	not modelled	100.0	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
62	c6mk6C	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: C: PDB Molecule: beta-lactamase; PDBTitle: carbapenemase vcc-1 from vibrio cholerae n14-02106
63	c5aq7B	Alignment	not modelled	100.0	18	PDB header: chaperone Chain: B: PDB Molecule: d12_db04v3; PDBTitle: darpin-based crystallization chaperones exploit molecular geometry as2 a screening dimension in protein crystallography
64	c6bn3A	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: ctx-m-151 class a extended-spectrum beta-lactamase apo crystal2 structure at 1.3 angstrom resolution.
65	c3p09A	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from francisella tularensis
66	c2wuqA	Alignment	not modelled	100.0	18	PDB header: transcription Chain: A: PDB Molecule: beta-lactamase regulatory protein blab; PDBTitle: crystal structure of blab protein from streptomyces cacaoi
67	c2wuqB	Alignment	not modelled	100.0	19	PDB header: transcription Chain: B: PDB Molecule: beta-lactamase regulatory protein blab; PDBTitle: crystal structure of blab protein from streptomyces cacaoi
68	d1e25a	Alignment	not modelled	100.0	20	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
69	c5gs8A	Alignment	not modelled	100.0	15	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of tla-3 extended-spectrum beta-lactamase
70	c2xftA	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: orf12; PDBTitle: structural and mechanistic studies on a cephalosporin esterase from2 the clavulanic acid biosynthesis pathway
71	c3a3eB	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: B: PDB Molecule: penicillin-binding protein 4; PDBTitle: crystal structure of penicillin binding protein 4 (dacb) from2 haemophilus influenzae, complexed with novel beta-lactam (cmv)
72	d1w79a1	Alignment	not modelled	99.9	28	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Dac-like
73	d1w5da1	Alignment	not modelled	99.9	27	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Dac-like
74	d2ex2a1	Alignment	not modelled	99.9	25	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Dac-like
75	c5cer1	Alignment	not modelled	99.8	20	PDB header: immune system Chain: I: PDB Molecule: bd0816; PDBTitle: bd0816 predatory endopeptidase from bdellovibrio bacteriovorus in2 complex with immunity protein bd3460
76	c5ctmB	Alignment	not modelled	99.8	13	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: structure of bpu1 beta-lactamase
77	d1xa1a	Alignment	not modelled	99.8	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
78	c2jc7A	Alignment	not modelled	99.8	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase oxa-24; PDBTitle: the crystal structure of the carbapenemase oxa-24 reveals2 new insights into the mechanism of carbapenem-hydrolysis
79	d1nrfa	Alignment	not modelled	99.8	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
80	c3v39A	Alignment	not modelled	99.8	18	PDB header: hydrolase Chain: A: PDB Molecule: d-alanyl-d-alanine carboxypeptidase; PDBTitle: bd3459, a predatory peptidoglycan endopeptidase from bdellovibrio2 bacteriovorus
81	c6nba	Alignment	not modelled	99.7	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase;

81	c6msa	Alignment	not modelled	99.7	17	PDBTitle: crystal structure of the beta lactamase class d ybxi from nostoc PDB header: hydrolase
82	c6nhuD	Alignment	not modelled	99.7	20	Chain: D: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the beta lactamase class d ybxi from2 agrobacterium fabrum
83	c2iwdA	Alignment	not modelled	99.7	14	PDB header: antibiotic resistance Chain: A: PDB Molecule: methicillin resistance mecR1 protein; PDBTitle: oxacilloyl-acylated mecR1 extracellular antibiotic-sensor domain.
84	c4oh0A	Alignment	not modelled	99.7	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase oxa-58; PDBTitle: crystal structure of oxa-58 carbapenemase
85	c3hbrD	Alignment	not modelled	99.7	16	PDB header: hydrolase Chain: D: PDB Molecule: oxa-48; PDBTitle: crystal structure of oxa-48 beta-lactamase
86	c4gn2A	Alignment	not modelled	99.7	24	PDB header: hydrolase Chain: A: PDB Molecule: oxacillinase; PDBTitle: crystal structure of oxa-45, a class d beta-lactamase with extended2 spectrum activity
87	c6n1nA	Alignment	not modelled	99.7	13	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of class d beta-lactamase from sebalidella termitidis2 atcc 33386
88	c4zdxA	Alignment	not modelled	99.7	12	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: structure of oxa-51 beta-lactamase
89	c6ni0A	Alignment	not modelled	99.7	21	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the beta lactamase class d ybxi from burkholderia2 thailandensis
90	d1k55a	Alignment	not modelled	99.6	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
91	c4iedB	Alignment	not modelled	99.6	16	PDB header: hydrolase Chain: B: PDB Molecule: class d beta-lactamase; PDBTitle: crystal structure of fus-1 (oxa-85), a class d beta-lactamase from2 fusobacterium nucleatum subsp. polymorphum
92	d1k38a	Alignment	not modelled	99.6	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
93	c5e2fB	Alignment	not modelled	99.6	16	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase ybxi; PDBTitle: crystal structure of beta-lactamase class d from bacillus subtilis
94	c3if6C	Alignment	not modelled	99.6	14	PDB header: hydrolase Chain: C: PDB Molecule: oxa-46 oxacillinase; PDBTitle: crystal structure of oxa-46 beta-lactamase from p. aeruginosa
95	c4k0xA	Alignment	not modelled	99.6	15	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: x-ray crystal structure of oxa-23 from acinetobacter baumannii
96	c5uy7A	Alignment	not modelled	99.6	19	PDB header: transferase Chain: A: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of a peptidoglycan glycosyltransferase from2 burkholderia ambifaria
97	c3pbnA	Alignment	not modelled	99.5	21	PDB header: hydrolase/antibiotic Chain: A: PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of apo pbp3 from pseudomonas aeruginosa
98	d1m6ka	Alignment	not modelled	99.5	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
99	c3oc2A	Alignment	not modelled	99.4	20	PDB header: penicillin-binding protein Chain: A: PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of penicillin-binding protein 3 from pseudomonas2 aeruginosa
100	c5lp4A	Alignment	not modelled	99.4	16	PDB header: hydrolase/antibiotic Chain: A: PDB Molecule: penicillin-binding protein 2 (pbp2); PDBTitle: penicillin-binding protein (pbp2) from helicobacter pylori
101	c4bjpA	Alignment	not modelled	99.4	16	PDB header: transferase Chain: A: PDB Molecule: penicillin binding protein transpeptidase domain protein; PDBTitle: crystal structure of e. coli penicillin binding protein 3
102	c3ue3A	Alignment	not modelled	99.4	21	PDB header: transferase Chain: A: PDB Molecule: septum formation, penicillin binding protein 3, PDBTitle: crystal structure of acinetobacter baumannii pbp3
103	d1vqqa3	Alignment	not modelled	99.4	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
104	c2wadB	Alignment	not modelled	99.4	20	PDB header: peptide binding protein Chain: B: PDB Molecule: penicillin-binding protein 2b; PDBTitle: penicillin-binding protein 2b (pbp-2b) from streptococcus2 pneumoniae (strain 5204)
105	c3pbqA	Alignment	not modelled	99.3	24	PDB header: hydrolase/antibiotic Chain: A: PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of pbp3 complexed with imipenem
106	c3lo7B	Alignment	not modelled	99.3	21	PDB header: transferase Chain: B: PDB Molecule: penicillin-binding protein a; PDBTitle: crystal structure of pbpa from mycobacterium tuberculosis
107	c4jfbB	Alignment	not modelled	99.3	22	PDB header: transferase Chain: B: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of peptidoglycan glycosyltransferase from atopobium2 parvulum dsm 20469.

108	c3lo7A_	Alignment	not modelled	99.3	20	PDB header: transferase Chain: A: PDB Molecule: penicillin-binding protein a; PDBTitle: crystal structure of pbpa from mycobacterium tuberculosis
109	c3equB_	Alignment	not modelled	99.2	21	PDB header: biosynthetic protein Chain: B: PDB Molecule: penicillin-binding protein 2; PDBTitle: crystal structure of penicillin-binding protein 2 from neisseria2 gonorrhoeae
110	c3vslB_	Alignment	not modelled	99.2	20	PDB header: penicillin-binding protein Chain: B: PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of penicillin-binding protein 3 (pbp3) from2 methicilin-resistant staphylococcus aureus in the cefotaxime bound3 form.
111	c1qmfA_	Alignment	not modelled	99.2	18	PDB header: cell cycle Chain: A: PDB Molecule: penicillin-binding protein 2x; PDBTitle: penicillin-binding protein 2x (pbp-2x) acyl-enzyme complex
112	c4mnrA_	Alignment	not modelled	99.2	27	PDB header: transferase Chain: A: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of d,d-transpeptidase domain of peptidoglycan2 glycosyltransferase from eggertella lenta
113	d1rp5a4	Alignment	not modelled	99.2	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
114	c4ovdA_	Alignment	not modelled	99.2	16	PDB header: transferase Chain: A: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of a putative peptidoglycan glycosyltransferase from2 atopobium parvulum dsm 20469
115	d1pyya4	Alignment	not modelled	99.2	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
116	c4ye5A_	Alignment	not modelled	99.2	15	PDB header: penicillin binding protein Chain: A: PDB Molecule: peptidoglycan synthetase penicillin-binding protein 3; PDBTitle: the crystal structure of a peptidoglycan synthetase from2 bifidobacterium adolescentis atcc 15703
117	c5troA_	Alignment	not modelled	99.1	20	PDB header: hydrolase Chain: A: PDB Molecule: penicillin-binding protein 1; PDBTitle: 1.8 angstrom resolution crystal structure of dimerization and2 transpeptidase domains (residues 39-608) of penicillin-binding3 protein 1 from staphylococcus aureus.
118	c6g9fA_	Alignment	not modelled	99.1	20	PDB header: hydrolase/antibiotic Chain: A: PDB Molecule: peptidoglycan d,d-transpeptidase mrda; PDBTitle: structural basis for the inhibition of e. coli pbp2
119	c3i7jB_	Alignment	not modelled	99.1	20	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase mb2281c; PDBTitle: crystal structure of a beta-lactamase (mb2281c) from mycobacterium2 bovis, northeast structural genomics consortium target mbr246
120	c3udiA_	Alignment	not modelled	99.1	19	PDB header: penicillin-binding protein/antibiotic Chain: A: PDB Molecule: penicillin-binding protein 1a; PDBTitle: crystal structure of acinetobacter baumannii pbp1a in complex with2 penicillin g