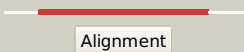

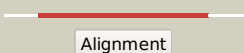

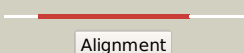

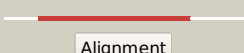





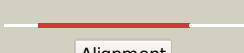

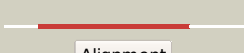









Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1730c_(-)_1955699_1957252
Date	Fri Aug 2 13:30:33 BST 2019
Unique Job ID	a406e91c5d72def0

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2qmiH_	 Alignment		100.0	23	PDB header: hydrolase Chain: H: PDB Molecule: pbp related beta-lactamase; PDBTitle: structure of the octameric penicillin-binding protein2 homologue from pyrococcus abyssii
2	c1ei5A_	 Alignment		100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: d-aminopeptidase; PDBTitle: crystal structure of a d-aminopeptidase from ochrobactrum2 anthropi
3	c3ozhA_	 Alignment		100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase/d-alanine carboxypeptidase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 yersinia pestis
4	c4ivkA_	 Alignment		100.0	24	PDB header: hydrolase Chain: A: PDB Molecule: carboxylesterases; PDBTitle: crystal structure of a fammily viii carboxylesterase in a complex with2 cephalothin.
5	c3o3vB_	 Alignment		100.0	22	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of clbp peptidase domain
6	d1onha_	 Alignment		100.0	22	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
7	d1rgya_	 Alignment		100.0	24	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
8	c4y7pA_	 Alignment		100.0	26	PDB header: hydrolase Chain: A: PDB Molecule: alkaline d-peptidase; PDBTitle: structure of alkaline d-peptidase from bacillus cereus
9	c2wzzA_	 Alignment		100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: amp-c beta-lactamase (pseudomonas aeruginosa)in complex2 with compound m-03
10	d2hdsa1	 Alignment		100.0	23	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
11	d1yqsa1	 Alignment		100.0	23	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase

12	c4p6bB_	Alignment		100.0	23	PDB header: hydrolase Chain: B: PDB Molecule: est-y29; PDBTitle: crystal structure of est-y29,a novel penicillin-binding protein/beta-2 lactamase homolog from a metagenomic library
13	d2drwa1	Alignment		100.0	24	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
14	c4gdnB_	Alignment		100.0	22	PDB header: hydrolase Chain: B: PDB Molecule: protein flp; PDBTitle: structure of fmta-like protein
15	c3tg9A_	Alignment		100.0	20	PDB header: penicillin binding protein Chain: A: PDB Molecule: penicillin-binding protein; PDBTitle: the crystal structure of penicillin binding protein from bacillus2 halodurans
16	c5gkvA_	Alignment		100.0	20	PDB header: hydrolase Chain: A: PDB Molecule: esterase a; PDBTitle: crystal structure of a novel penicillin-binding protein (pbp) homolog2 from caulobacter crescentus
17	c5e2hB_	Alignment		100.0	22	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of d-alanine carboxypeptidase ampC from2 mycobacterium smegmatis
18	c2qz6A_	Alignment		100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: first crystal structure of a psychrophile class c beta-2 lactamase
19	c3ws1A_	Alignment		100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: n288q-n321q mutant beta-lactamase derived from chromohalobacter sp.5602 (condition-1b)
20	c1zkiA_	Alignment		100.0	23	PDB header: hydrolase Chain: A: PDB Molecule: extended-spectrum beta-lactamase; PDBTitle: structural basis for the extended substrate spectrum of cmY-2 10, a plasmid-encoded class c beta-lactamase
21	c5e2gA_	Alignment	not modelled	100.0	24	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of d-alanine carboxypeptidase ampC from burkholderia2 cenocepacia
22	c3wvxA_	Alignment	not modelled	100.0	25	PDB header: hydrolase Chain: A: PDB Molecule: s12 family peptidase; PDBTitle: crystal structure of d-stereospecific amidohydrolase from streptomyces2 sp. 82f2
23	c4netA_	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: ampC; PDBTitle: crystal structure of adc-1 beta-lactamase
24	d1ei5a3	Alignment	not modelled	100.0	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
25	c5zh8B_	Alignment	not modelled	100.0	20	PDB header: hydrolase Chain: B: PDB Molecule: protein fmta; PDBTitle: crystal structure of fmta from staphylococcus aureus at 2.58 a
26	c3hleA_	Alignment	not modelled	100.0	19	PDB header: transferase Chain: A: PDB Molecule: transesterase; PDBTitle: simvastatin synthase (lovD), from aspergillus terreus, s5 mutant, s76a2 mutant, complex with monacolin j acid
27	c5eviA_	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 chromobacterium violaceum
28	c5eviC_	Alignment	not modelled	100.0	21	PDB header: hydrolase Chain: C: PDB Molecule: beta-lactamase/d-alanine carboxypeptidase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 pseudomonas syringae

29	d1ci9a_	Alignment	not modelled	100.0	22	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
30	c3zytA_	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: esterase a; PDBTitle: structure determination of esta from arthrobacter nitroguajacolicus2 rue61a
31	c6njka_	Alignment	not modelled	100.0	21	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from sulfitobacter sp. ee-36
32	c5gmxA_	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: carboxylesterase; PDBTitle: crystal structure of a family viii carboxylesterase
33	c5tgfB_	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of putative beta-lactamase from bacteroides dorei2 dsm 17855
34	c4gb7A_	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: 6-aminohexanoate-dimer hydrolase; PDBTitle: putative 6-aminohexanoate-dimer hydrolase from bacillus anthracis
35	d2dcfa1	Alignment	not modelled	100.0	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
36	c3i7jB_	Alignment	not modelled	100.0	26	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
37	c2wuqB_	Alignment	not modelled	99.6	17	PDB header: transcription Chain: B: PDB Molecule: beta-lactamase regulatory protein blab; PDBTitle: crystal structure of blab protein from streptomyces cacaoi
38	c4ewfA_	Alignment	not modelled	99.6	18	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: the crystal structure of beta-lactamase from sphaerobacter2 thermophilus dsm 20745
39	c2j7vA_	Alignment	not modelled	99.5	19	PDB header: hydrolase Chain: A: PDB Molecule: tlI2115 protein; PDBTitle: structure of pbp-a
40	d1hzoa_	Alignment	not modelled	99.5	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
41	c2wuqA_	Alignment	not modelled	99.5	19	PDB header: transcription Chain: A: PDB Molecule: beta-lactamase regulatory protein blab; PDBTitle: crystal structure of blab protein from streptomyces cacaoi
42	d1m40a_	Alignment	not modelled	99.4	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
43	c4b88A_	Alignment	not modelled	99.4	20	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: ancestral (gnca) beta-lactamase class a
44	d1iysa_	Alignment	not modelled	99.4	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
45	d1g6aa_	Alignment	not modelled	99.4	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
46	d1n9ba_	Alignment	not modelled	99.4	12	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
47	d2cc1a1	Alignment	not modelled	99.4	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
48	d1buea_	Alignment	not modelled	99.4	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
49	c2qpnA_	Alignment	not modelled	99.4	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase ges-1; PDBTitle: ges-1 beta-lactamase
50	c2ov5A_	Alignment	not modelled	99.4	14	PDB header: hydrolase Chain: A: PDB Molecule: carbapenemase; PDBTitle: crystal structure of the kpc-2 carbapenemase
51	c4mxbB_	Alignment	not modelled	99.4	17	PDB header: hydrolase/antibiotic Chain: B: PDB Molecule: bel-1; PDBTitle: crystal structure of extended-spectrum beta-lactamase bel-1 in complex2 with imipenem
52	c2v20A_	Alignment	not modelled	99.4	13	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.
53	c6bn3A_	Alignment	not modelled	99.4	16	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.
54	c6niqB_	Alignment	not modelled	99.4	18	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the putative class a beta-lactamase penp from2 rhodopseudomonas palustris
						PDB header: hydrolase

55	c4hesA	Alignment	not modelled	99.4	13	Chain: A; PDB Molecule: beta-lactamase class a-like protein; PDBTitle: structure of a beta-lactamase class a-like protein from veillonella2 parvula.
56	c1tvfA	Alignment	not modelled	99.4	22	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
57	d1bsga	Alignment	not modelled	99.3	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
58	c3w4pA	Alignment	not modelled	99.3	17	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of peni beta-lactamase from burkholderia2 pseudomallei at pH7.5
59	c6mk6C	Alignment	not modelled	99.3	14	PDB header: hydrolase Chain: C; PDB Molecule: beta-lactamase; PDBTitle: carbapenemase vcc-1 from vibrio cholerae n14-02106
60	d1o7ea	Alignment	not modelled	99.3	21	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
61	c5vpqA	Alignment	not modelled	99.3	14	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from burkholderia phymatum
62	d1tvfa2	Alignment	not modelled	99.3	22	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
63	c3p09A	Alignment	not modelled	99.3	12	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from francisella tularensis
64	c5e43A	Alignment	not modelled	99.3	16	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase sros_5706 from streptosporangium2 roseum
65	d1dy6a	Alignment	not modelled	99.3	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
66	c5hw3A	Alignment	not modelled	99.3	17	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a beta lactamase from burkholderia vietnamiensis
67	c3w4qC	Alignment	not modelled	99.3	16	PDB header: hydrolase Chain: C; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of pena beta-lactamase from burkholderia multivorans2 at pH4.2
68	c3p09B	Alignment	not modelled	99.2	14	PDB header: hydrolase Chain: B; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from francisella tularensis
69	c5hx9A	Alignment	not modelled	99.2	14	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from burkholderia vietnamiensis
70	c3dw0B	Alignment	not modelled	99.2	15	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
71	c3humB	Alignment	not modelled	99.2	24	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
72	c5tfqA	Alignment	not modelled	99.2	19	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
73	c5e2eB	Alignment	not modelled	99.2	13	PDB header: hydrolase Chain: B; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase precursor bla _a from yersinia2 enterocolitica
74	c5tr7A	Alignment	not modelled	99.2	20	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
75	c4yfmA	Alignment	not modelled	99.1	21	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: class a beta-lactamase from mycobacterium abscessus
76	c3cjmA	Alignment	not modelled	99.1	15	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
77	c4eqiA	Alignment	not modelled	99.1	16	PDB header: hydrolase Chain: A; PDB Molecule: carbapenem-hydrolyzing beta-lactamase sfc-1; PDBTitle: crystal structure of serratia fonticola carbapenemase sfc-1
78	c1i2sA	Alignment	not modelled	99.1	14	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: beta-lactamase from bacillus licheniformis bs3
79	d1i2sa	Alignment	not modelled	99.1	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
80	d1e25a	Alignment	not modelled	99.0	13	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
						PDB header: hydrolase

81	c3a3jA_	Alignment	not modelled	99.0	22	Chain: A: PDB Molecule: ppp5; PDBTitle: crystal structures of penicillin binding protein 5 from haemophilus2 influenzae
82	c5fsrB_	Alignment	not modelled	99.0	19	PDB header: hydrolase Chain: B: PDB Molecule: d-alanyl-d-alanine carboxypeptidase dacc; PDBTitle: crystal structure of penicillin binding protein 6b from2 escherichia coli
83	c5gs8A_	Alignment	not modelled	99.0	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of tla-3 extended-spectrum beta-lactamase
84	c1z6fA_	Alignment	not modelled	99.0	21	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
85	c2xftA_	Alignment	not modelled	99.0	12	PDB header: hydrolase Chain: A: PDB Molecule: orf12; PDBTitle: structural and mechanistic studies on a cephalosporin esterase from2 the clavulanic acid biosynthesis pathway
86	c3it9B_	Alignment	not modelled	99.0	21	PDB header: hydrolase Chain: B: PDB Molecule: d-alanyl-d-alanine carboxypeptidase dacc; PDBTitle: crystal structure of penicillin-binding protein 6 (ppb6) from e. coli2 in apo state
87	c3qhyA_	Alignment	not modelled	99.0	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
88	d3beca2	Alignment	not modelled	98.9	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
89	c6nj1A_	Alignment	not modelled	98.9	18	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of class a beta-lactamase from clostridium kluveri2 dsm 555
90	c3lezA_	Alignment	not modelled	98.9	11	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a halotolerant bacterial beta-lactamase
91	c1w7fB_	Alignment	not modelled	98.9	16	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the class a beta-lactamase bs32 inhibited with isocitrate
92	c4k91A_	Alignment	not modelled	98.9	24	PDB header: hydrolase Chain: A: PDB Molecule: d-ala-d-ala-carboxypeptidase; PDBTitle: crystal structure of penicillin-binding protein 5 (ppb5) from2 pseudomonas aeruginosa in apo state
93	c4dxbB_	Alignment	not modelled	98.9	13	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
94	d1xp4a2	Alignment	not modelled	98.9	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
95	c1xp4C_	Alignment	not modelled	98.9	16	PDB header: hydrolase Chain: C: PDB Molecule: d-alanyl-d-alanine carboxypeptidase; PDBTitle: crystal structure of a peptidoglycan synthesis regulatory2 factor (ppb3) from streptococcus pneumoniae
96	c3cg5A_	Alignment	not modelled	98.9	15	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the covalent adduct formed between tb2 b-lactamase and clavulanate
97	d1alqa_	Alignment	not modelled	98.9	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
98	d1es5a_	Alignment	not modelled	98.8	20	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
99	d1djaa_	Alignment	not modelled	98.8	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
100	c6osuA_	Alignment	not modelled	98.8	15	PDB header: hydrolase Chain: A: PDB Molecule: d-alanyl-d-alanine carboxypeptidase (penicillin binding PDBTitle: crystal structure of the d-alanyl-d-alanine carboxypeptidase dacc from2 francisella tularensis
101	c5aq7B_	Alignment	not modelled	98.6	17	PDB header: chaperone Chain: B: PDB Molecule: d12_db04v3; PDBTitle: darpin-based crystallization chaperones exploit molecular geometry as2 a screening dimension in protein crystallography
102	d1pyya4	Alignment	not modelled	98.5	13	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
103	c4zdxA_	Alignment	not modelled	98.5	15	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: structure of oxa-51 beta-lactamase
104	c2jc7A_	Alignment	not modelled	98.5	12	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
105	c5uy7A_	Alignment	not modelled	98.4	18	PDB header: transferase Chain: A: PDB Molecule: peptidoglycan glycosyltransferase; PDBTitle: crystal structure of a peptidoglycan glycosyltransferase from2 burkholderia ambifaria
106	c3ue3A_	Alignment	not modelled	98.3	15	PDB header: transferase Chain: A: PDB Molecule: septum formation, penicillin binding protein 3,

						PDBTitle: crystal structure of acinetobacter baumannii pbp3
107	d1rp5a4	Alignment	not modelled	98.3	13	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
108	c6aziA	Alignment	not modelled	98.3	22	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
109	c3oc2A	Alignment	not modelled	98.3	17	PDB header: penicillin-binding protein Chain: A; PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of penicillin-binding protein 3 from pseudomonas2 aeruginosa
110	c3mfdB	Alignment	not modelled	98.3	21	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
111	c3pbqA	Alignment	not modelled	98.2	16	PDB header: hydrolase/antibiotic Chain: A; PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of pbp3 complexed with imipenem
112	c4bjpA	Alignment	not modelled	98.1	14	PDB header: transferase Chain: A; PDB Molecule: penicillin binding protein transpeptidase domain protein; PDBTitle: crystal structure of e. coli penicillin binding protein 3
113	c5zqcC	Alignment	not modelled	98.1	20	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
114	c4pprA	Alignment	not modelled	98.0	15	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
115	d1nrfa	Alignment	not modelled	98.0	11	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
116	c2bcfA	Alignment	not modelled	98.0	21	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.
117	c3pbnA	Alignment	not modelled	97.9	16	PDB header: hydrolase/antibiotic Chain: A; PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of apo pbp3 from pseudomonas aeruginosa
118	c4k0xA	Alignment	not modelled	97.8	15	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: x-ray crystal structure of oxa-23 from acinetobacter baumannii
119	c6nhsA	Alignment	not modelled	97.7	18	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the beta lactamase class d ybxi from nostoc
120	c5u47A	Alignment	not modelled	97.7	19	PDB header: lipid-binding protein Chain: A; PDB Molecule: penicillin binding protein 2x; PDBTitle: 1.95 angstrom resolution crystal structure of penicillin binding2 protein 2x from streptococcus thermophilus