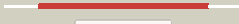



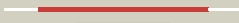



















Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2257c (-)_2530014_2530832
Date	Mon Aug 5 13:25:39 BST 2019
Unique Job ID	6d0797d855f34f09

Detailed template
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3i7jB_	 Alignment		100.0	99	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
2	c4ivkA_	 Alignment		100.0	26	PDB header: hydrolase Chain: A: PDB Molecule: carboxylesterases; PDBTitle: crystal structure of a fammily viii carboxylesterase in a complex with2 cephalothin.
3	c3zytA_	 Alignment		100.0	23	PDB header: hydrolase Chain: A: PDB Molecule: esterase a; PDBTitle: structure determination of esta from arthrobacter nitroguajacolicus2 rue61a
4	c5gkvA_	 Alignment		100.0	26	PDB header: hydrolase Chain: A: PDB Molecule: esterase a; PDBTitle: crystal structure of a novel penicillin-binding protein (pbp) homolog2 from caulobacter crescentus
5	c4p6bB_	 Alignment		100.0	24	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
6	c2qmiH_	 Alignment		100.0	27	PDB header: hydrolase Chain: H: PDB Molecule: pbp related beta-lactamase; PDBTitle: structure of the octameric penicillin-binding protein2 homologue from pyrococcus abyssi
7	c3hleA_	 Alignment		100.0	25	PDB header: transferase Chain: A: PDB Molecule: transesterase; PDBTitle: simvastatin synthase (lovd), from aspergillus terreus, s5 mutant, s76a2 mutant, complex with monacolin j acid
8	d1ci9a_	 Alignment		100.0	31	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
9	c5gmxA_	 Alignment		100.0	26	PDB header: hydrolase Chain: A: PDB Molecule: carboxylesterase; PDBTitle: crystal structure of a family viii carboxylesterase
10	d2dcfa1	 Alignment		100.0	22	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
11	c5tgfB_	 Alignment		100.0	21	PDB header: hydrolase Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of putative beta-lactamase from bacteroides dorei2 dsm 17855

12	d1rgya_	Alignment		100.0	22	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
13	c4gb7A_	Alignment		100.0	20	PDB header: hydrolase Chain: A: PDB Molecule: 6-aminohexanoate-dimer hydrolase; PDBTitle: putative 6-aminohexanoate-dimer hydrolase from bacillus anthracis
14	c1ei5A_	Alignment		100.0	20	PDB header: hydrolase Chain: A: PDB Molecule: d-aminopeptidase; PDBTitle: crystal structure of a d-aminopeptidase from ochrobactrum2 anthropi
15	c3ozhA_	Alignment		100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase/d-alanine carboxypeptidase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 yersinia pestis
16	d1onha_	Alignment		100.0	24	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
17	d2hdsA1	Alignment		100.0	24	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
18	c3ws1A_	Alignment		100.0	25	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: n288q-n321q mutant beta-lactamase derived from chromohalobacter sp.5602 (condition-1b)
19	c2wzzA_	Alignment		100.0	29	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: amp-c beta-lactamase (pseudomonas aeruginosa)in complex2 with compound m-03
20	c5e2hB_	Alignment		100.0	25	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of d-alanine carboxypeptidase ampC from2 mycobacterium smegmatis
21	d2drwa1	Alignment	not modelled	100.0	25	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
22	c4netA_	Alignment	not modelled	100.0	24	PDB header: hydrolase Chain: A: PDB Molecule: ampc; PDBTitle: crystal structure of adc-1 beta-lactamase
23	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
24	c2qz6A_	Alignment	not modelled	100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: first crystal structure of a psychrophile class c beta-2 lactamase
25	c1zkja_	Alignment	not modelled	100.0	24	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
26	c3tg9A_	Alignment	not modelled	100.0	27	PDB header: penicillin binding protein Chain: A: PDB Molecule: penicillin-binding protein; PDBTitle: the crystal structure of penicillin binding protein from bacillus2 halodurans
27	d1ei5a3	Alignment	not modelled	100.0	20	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
28	c4gdnB_	Alignment	not modelled	100.0	23	PDB header: hydrolase Chain: B: PDB Molecule: protein flp; PDBTitle: structure of fmta-like protein
						PDB header: hydrolase

29	c3o3vB_	Alignment	not modelled	100.0	23	Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of clbp peptidase domain
30	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
31	c4y7pA_	Alignment	not modelled	100.0	26	PDB header: hydrolase Chain: A: PDB Molecule: alkaline d-peptidase; PDBTitle: structure of alkaline d-peptidase from bacillus cereus
32	d1yqsa1	Alignment	not modelled	100.0	22	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
33	c5e2gA_	Alignment	not modelled	100.0	20	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of d-alanine carboxypeptidase ampc from burkholderia2 cenocepacia
34	c5zh8B_	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: B: PDB Molecule: protein fmta; PDBTitle: crystal structure of fmta from staphylococcus aureus at 2.58 a
35	c5eviC_	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: C: PDB Molecule: beta-lactamase/d-alanine carboxypeptidase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 pseudomonas syringae
36	c5evlA_	Alignment	not modelled	100.0	21	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 chromobacterium violaceum
37	c1tvfA_	Alignment	not modelled	99.8	19	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
38	c1z6fA_	Alignment	not modelled	99.8	14	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
39	d1tvfa2	Alignment	not modelled	99.8	22	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
40	c5fsrB_	Alignment	not modelled	99.8	16	PDB header: hydrolase Chain: B: PDB Molecule: d-alanyl-d-alanine carboxypeptidase dacd; PDBTitle: crystal structure of penicillin binding protein 6b from2 escherichia coli
41	c6osuA_	Alignment	not modelled	99.8	18	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
42	c3it9B_	Alignment	not modelled	99.8	19	PDB header: hydrolase Chain: B: PDB Molecule: d-alanyl-d-alanine carboxypeptidase dacd; PDBTitle: crystal structure of penicillin-binding protein 6 (pbp6) from e. coli2 in apo state
43	c3humB_	Alignment	not modelled	99.7	19	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
44	c3a3jA_	Alignment	not modelled	99.7	13	PDB header: hydrolase Chain: A: PDB Molecule: pbp5; PDBTitle: crystal structures of penicillin binding protein 5 from haemophilus2 influenzae
45	c4k91A_	Alignment	not modelled	99.7	18	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
46	c1xp4C_	Alignment	not modelled	99.7	20	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
47	d1xp4a2	Alignment	not modelled	99.7	20	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
48	c5tr7A_	Alignment	not modelled	99.7	14	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
49	c4pprA_	Alignment	not modelled	99.6	21	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
50	d3beca2	Alignment	not modelled	99.6	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
51	c6aziA_	Alignment	not modelled	99.5	17	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
52	c4ewfA_	Alignment	not modelled	99.5	18	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: the crystal structure of beta-lactamase from sphaerobacter2 thermophilus dsm 20745
53	c3mfdB_	Alignment	not modelled	99.5	19	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
54	c4hesA_	Alignment	not modelled	99.5	13	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.
55	c5zqeC_	Alignment	not modelled	99.4	18 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
56	c2j7vA_	Alignment	not modelled	99.4	15 PDB header: hydrolase Chain: A: PDB Molecule: tlI2115 protein; PDBTitle: structure of pbp-a
57	c2qpna_	Alignment	not modelled	99.4	18 PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase ges-1; PDBTitle: ges-1 beta-lactamase
58	d1m40a_	Alignment	not modelled	99.4	16 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
59	d1hzoa_	Alignment	not modelled	99.4	20 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
60	d1es5a_	Alignment	not modelled	99.4	14 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
61	c2ov5A_	Alignment	not modelled	99.4	20 PDB header: hydrolase Chain: A: PDB Molecule: carbapenemase; PDBTitle: crystal structure of the kpc-2 carbapenemase
62	d1buea_	Alignment	not modelled	99.4	19 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
63	c4mxbB_	Alignment	not modelled	99.4	18 PDB header: hydrolase/antibiotic Chain: B: PDB Molecule: bel-1; PDBTitle: crystal structure of extended-spectrum beta-lactamase bel-1 in complex2 with imipenem
64	c5tfqA_	Alignment	not modelled	99.4	12 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
65	c3p09A_	Alignment	not modelled	99.3	14 PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from francisella tularensis
66	c6mk6C_	Alignment	not modelled	99.3	19 PDB header: hydrolase Chain: C: PDB Molecule: beta-lactamase; PDBTitle: carbapenemase vcc-1 from vibrio cholerae n14-02106
67	c4b88A_	Alignment	not modelled	99.3	20 PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: ancestral (gnca) beta-lactamase class a
68	c4eqiA_	Alignment	not modelled	99.3	18 PDB header: hydrolase Chain: A: PDB Molecule: carbapenem-hydrolyzing beta-lactamase sfc-1; PDBTitle: crystal structure of serratia fonticola carbapenemase sfc-1
69	d1n9ba_	Alignment	not modelled	99.3	17 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
70	d1e25a_	Alignment	not modelled	99.3	15 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
71	c5hw3A_	Alignment	not modelled	99.3	19 PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a beta lactamase from burkholderia vietnamiensis
72	c3p09B_	Alignment	not modelled	99.3	13 PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from francisella tularensis
73	d1iysa_	Alignment	not modelled	99.2	18 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
74	c5hx9A_	Alignment	not modelled	99.2	17 PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from burkholderia vietnamiensis
75	c3w4pA_	Alignment	not modelled	99.2	20 PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of peni beta-lactamase from burkholderia2 pseudomallei at ph7.5
76	c5vpqA_	Alignment	not modelled	99.2	12 PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from burkholderia phymatum
77	c3dw0B_	Alignment	not modelled	99.2	20 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
78	d2cc1a1	Alignment	not modelled	99.2	18 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
79	c2v20A_	Alignment	not modelled	99.2	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.
80	c4yfmA_	Alignment	not modelled	99.2	19 PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: class a beta-lactamase from mycobacterium abscessus

81	d1i2sa_	Alignment	not modelled	99.2	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
82	c1i2sA_	Alignment	not modelled	99.2	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: beta-lactamase from bacillus licheniformis bs3
83	d1g6aa_	Alignment	not modelled	99.2	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
84	c5e2eB_	Alignment	not modelled	99.2	17	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase precursor blaa from yersinia2 enterocolitica
85	d1dy6a_	Alignment	not modelled	99.2	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
86	c6niqB_	Alignment	not modelled	99.2	16	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the putative class a beta-lactamase penp from2 rhodopseudomonas palustris
87	d1bsga_	Alignment	not modelled	99.2	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
88	c3w4qC_	Alignment	not modelled	99.2	14	PDB header: hydrolase Chain: C: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of pena beta-lactamase from burkholderia multivorans2 at ph4.2
89	c5gs8A_	Alignment	not modelled	99.1	11	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of tla-3 extended-spectrum beta-lactamase
90	c2wuqA_	Alignment	not modelled	99.1	12	PDB header: transcription Chain: A: PDB Molecule: beta-lactamase regulatory protein blab; PDBTitle: crystal structure of blab protein from streptomyces cacaio
91	d1djaa_	Alignment	not modelled	99.1	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
92	c2bcfA_	Alignment	not modelled	99.1	24	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.
93	c6bn3A_	Alignment	not modelled	99.1	14	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.
94	d1o7ea_	Alignment	not modelled	99.1	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
95	c4dxbB_	Alignment	not modelled	99.1	19	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
96	c2wuqB_	Alignment	not modelled	99.1	16	PDB header: transcription Chain: B: PDB Molecule: beta-lactamase regulatory protein blab; PDBTitle: crystal structure of blab protein from streptomyces cacaio
97	c3qhyA_	Alignment	not modelled	99.1	14	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
98	c5e43A_	Alignment	not modelled	99.0	15	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase sros_5706 from streptosporangium2 roseum
99	c1w7fB_	Alignment	not modelled	99.0	14	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the class a beta-lactamase bs32 inhibited with isocitrate
100	c3cjmA_	Alignment	not modelled	98.9	9	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
101	c6nj1A_	Alignment	not modelled	98.9	12	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of class a beta-lactamase from clostridium kluveri2 dsm 555
102	d1alqa_	Alignment	not modelled	98.8	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
103	c3lezA_	Alignment	not modelled	98.7	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a halotolerant bacterial beta-lactamase
104	c3cg5A_	Alignment	not modelled	98.7	14	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the covalent adduct formed between tb2 b-lactamase and clavulanate
105	c2xftA_	Alignment	not modelled	98.7	19	PDB header: hydrolase Chain: A: PDB Molecule: orf12; PDBTitle: structural and mechanistic studies on a cephalosporin esterase from2 the clavulanic acid biosynthesis pathway
106	c3uo9B_	Alignment	not modelled	98.4	17	PDB header: hydrolase/hydrolase inhibitor Chain: B: PDB Molecule: glutaminase kidney isoform, mitochondrial;

					PDBTitle: crystal structure of human gac in complex with glutamate and bptes
107	d1u60a_	Alignment	not modelled	98.4	18 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Glutaminase
108	c2dfwA_	Alignment	not modelled	98.4	18 PDB header: hydrolase Chain: A: PDB Molecule: salt-tolerant glutaminase; PDBTitle: crystal structure of a major fragment of the salt-tolerant2 glutaminase from micrococcus luteus k-3
109	c3ss4C_	Alignment	not modelled	98.3	16 PDB header: hydrolase Chain: C: PDB Molecule: glutaminase c; PDBTitle: crystal structure of mouse glutaminase c, phosphate-bound form
110	c3ih9A_	Alignment	not modelled	98.3	18 PDB header: hydrolase Chain: A: PDB Molecule: salt-tolerant glutaminase; PDBTitle: crystal structure analysis of mglu in its tris form
111	c5aq7B_	Alignment	not modelled	98.2	16 PDB header: chaperone Chain: B: PDB Molecule: d12_db04v3; PDBTitle: darpin-based crystallization chaperones exploit molecular geometry as2 a screening dimension in protein crystallography
112	c3czdA_	Alignment	not modelled	98.2	16 PDB header: hydrolase Chain: A: PDB Molecule: glutaminase kidney isoform; PDBTitle: crystal structure of human glutaminase in complex with l-glutamate
113	c5uqeB_	Alignment	not modelled	98.1	16 PDB header: hydrolase Chain: B: PDB Molecule: glutaminase kidney isoform, mitochondrial; PDBTitle: multidomain structure of human kidney-type glutaminase(kga/gls)
114	c2pbyB_	Alignment	not modelled	98.0	20 PDB header: hydrolase Chain: B: PDB Molecule: glutaminase; PDBTitle: probable glutaminase from geobacillus kaustophilus hta426
115	c6nhuD_	Alignment	not modelled	97.9	16 PDB header: hydrolase Chain: D: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the beta lactamase class d ybxi from2 agrobacterium fabrum
116	c4gn2A_	Alignment	not modelled	97.8	14 PDB header: hydrolase Chain: A: PDB Molecule: oxacillinase; PDBTitle: crystal structure of oxa-45, a class d beta-lactamase with extended2 spectrum activity
117	c3fwlA_	Alignment	not modelled	97.8	19 PDB header: transferase, hydrolase Chain: A: PDB Molecule: penicillin-binding protein 1b; PDBTitle: crystal structure of the full-length transglycosylase ppb1b from2 escherichia coli
118	d1nrfa_	Alignment	not modelled	97.7	11 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
119	c2jc7A_	Alignment	not modelled	97.7	15 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
120	d1mkia_	Alignment	not modelled	97.6	19 Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Glutaminase