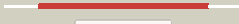



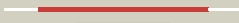



















# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2463_(lipP)_2765665_2766849
Date	Wed Aug 7 12:50:09 BST 2019
Unique Job ID	d00143b59bb3df5f

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c5gkvA_</a>	 Alignment		100.0	38	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> esterase a; <b>PDBTitle:</b> crystal structure of a novel penicillin-binding protein (pbp) homolog2 from caulobacter crescentus
2	<a href="#">c3zytA_</a>	 Alignment		100.0	29	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> esterase a; <b>PDBTitle:</b> structure determination of esta from arthrobacter nitroguajacolicus2 rue61a
3	<a href="#">c5gmxA_</a>	 Alignment		100.0	40	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> carboxylesterase; <b>PDBTitle:</b> crystal structure of a family viii carboxylesterase
4	<a href="#">c4ivkA_</a>	 Alignment		100.0	21	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> carboxylesterases; <b>PDBTitle:</b> crystal structure of a fammily viii carboxylesterase in a complex with2 cephalothin.
5	<a href="#">c4p6bB_</a>	 Alignment		100.0	18	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> est-y29; <b>PDBTitle:</b> crystal structure of est-y29,a novel penicillin-binding protein/beta-2 lactamase homolog from a metagenomic library
6	<a href="#">c3hleA_</a>	 Alignment		100.0	22	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> transesterase; <b>PDBTitle:</b> simvastatin synthase (lovd), from aspergillus terreus, s5 mutant, s76a2 mutant, complex with monacolin j acid
7	<a href="#">c2qmiH_</a>	 Alignment		100.0	21	<b>PDB header:</b> hydrolase <b>Chain:</b> H: <b>PDB Molecule:</b> pbp related beta-lactamase; <b>PDBTitle:</b> structure of the octameric penicillin-binding protein2 homologue from pyrococcus abyssi
8	<a href="#">d1ci9a_</a>	 Alignment		100.0	24	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
9	<a href="#">d2drwa1</a>	 Alignment		100.0	20	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
10	<a href="#">c1ei5A_</a>	 Alignment		100.0	20	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> d-aminopeptidase; <b>PDBTitle:</b> crystal structure of a d-aminopeptidase from ochrobactrum2 anthropi
11	<a href="#">c5tgfB_</a>	 Alignment		100.0	19	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of putative beta-lactamase from bacteroides dorei2 dsm 17855

12	<a href="#">d1onha_</a>	Alignment		100.0	22	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
13	<a href="#">d1rgya_</a>	Alignment		100.0	20	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
14	<a href="#">c2qz6A_</a>	Alignment		100.0	18	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> first crystal structure of a psychrophile class c beta-2 lactamase
15	<a href="#">c3ws1A_</a>	Alignment		100.0	20	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> n288q-n321q mutant beta-lactamase derived from chromohalobacter sp.5602 (condition-1b)
16	<a href="#">c5e2hB_</a>	Alignment		100.0	21	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of d-alanine carboxypeptidase ampC from2 mycobacterium smegmatis
17	<a href="#">c2wzzA_</a>	Alignment		100.0	20	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> amp-c beta-lactamase (pseudomonas aeruginosa)in complex2 with compound m-03
18	<a href="#">c3o3vB_</a>	Alignment		100.0	19	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of clbp peptidase domain
19	<a href="#">c4y7pA_</a>	Alignment		100.0	21	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> alkaline d-peptidase; <b>PDBTitle:</b> structure of alkaline d-peptidase from bacillus cereus
20	<a href="#">c5zh8B_</a>	Alignment		100.0	17	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> protein fmta; <b>PDBTitle:</b> crystal structure of fmta from staphylococcus aureus at 2.58 a
21	<a href="#">c4netA_</a>	Alignment	not modelled	100.0	15	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> ampc; <b>PDBTitle:</b> crystal structure of adc-1 beta-lactamase
22	<a href="#">c3ozhA_</a>	Alignment	not modelled	100.0	23	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase/d-alanine carboxypeptidase; <b>PDBTitle:</b> crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 yersinia pestis
23	<a href="#">d1yqsa1</a>	Alignment	not modelled	100.0	24	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
24	<a href="#">d2hdsa1</a>	Alignment	not modelled	100.0	19	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
25	<a href="#">c4gdnB_</a>	Alignment	not modelled	100.0	17	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> protein flp; <b>PDBTitle:</b> structure of fmta-like protein
26	<a href="#">c3tg9A_</a>	Alignment	not modelled	100.0	17	<b>PDB header:</b> penicillin binding protein <b>Chain:</b> A: <b>PDB Molecule:</b> penicillin-binding protein; <b>PDBTitle:</b> the crystal structure of penicillin binding protein from bacillus2 halodurans
27	<a href="#">c1zkjA_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> extended-spectrum beta-lactamase; <b>PDBTitle:</b> structural basis for the extended substrate spectrum of cmY-2 10, a plasmid-encoded class c beta-lactamase
28	<a href="#">d1ei5a3</a>	Alignment	not modelled	100.0	20	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
						<b>PDB header:</b> hydrolase

29	<a href="#">c6njka</a>	Alignment	not modelled	100.0	18	<b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of beta-lactamase from sulfitolbacter sp. ee-36
30	<a href="#">c5e2ga</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of d-alanine carboxypeptidase ampcc from burkholderia2 cenocepacia
31	<a href="#">c3wwxA</a>	Alignment	not modelled	100.0	26	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> s12 family peptidase; <b>PDBTitle:</b> crystal structure of d-stereospecific amidohydrolase from streptomyces2 sp. 82f2
32	<a href="#">c5evlA</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 chromobacterium violaceum
33	<a href="#">c5eviC</a>	Alignment	not modelled	100.0	17	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> beta-lactamase/d-alanine carboxypeptidase; <b>PDBTitle:</b> crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 pseudomonas syringae
34	<a href="#">d2dcfa1</a>	Alignment	not modelled	100.0	17	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
35	<a href="#">c4gb7A</a>	Alignment	not modelled	100.0	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> 6-aminohexanoate-dimer hydrolase; <b>PDBTitle:</b> putative 6-aminohexanoate-dimer hydrolase from bacillus anthracis
36	<a href="#">c3i7jB</a>	Alignment	not modelled	100.0	28	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> beta-lactamase mb2281c; <b>PDBTitle:</b> crystal structure of a beta-lactamase (mb2281c) from mycobacterium2 bovis, northeast structural genomics consortium target mbr246
37	<a href="#">d1hzoa</a>	Alignment	not modelled	99.5	12	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
38	<a href="#">d1buea</a>	Alignment	not modelled	99.5	15	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
39	<a href="#">c2ov5A</a>	Alignment	not modelled	99.5	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> carbapenemase; <b>PDBTitle:</b> crystal structure of the kpc-2 carbapenemase
40	<a href="#">d1m40a</a>	Alignment	not modelled	99.5	14	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
41	<a href="#">c4hesA</a>	Alignment	not modelled	99.4	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase class a-like protein; <b>PDBTitle:</b> structure of a beta-lactamase class a-like protein from veillonella2 parvula.
42	<a href="#">c4ewfA</a>	Alignment	not modelled	99.4	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> the crystal structure of beta-lactamase from sphaerobacter2 thermophilus dsm 20745
43	<a href="#">c1i2sA</a>	Alignment	not modelled	99.4	19	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> beta-lactamase from bacillus licheniformis bs3
44	<a href="#">d1i2sa</a>	Alignment	not modelled	99.4	19	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
45	<a href="#">d1g6aa</a>	Alignment	not modelled	99.4	16	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
46	<a href="#">c5tfqA</a>	Alignment	not modelled	99.4	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of a representative of class a beta-lactamase from2 bacteroides cellulolyticus dsm 14838
47	<a href="#">d1iysa</a>	Alignment	not modelled	99.4	16	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
48	<a href="#">d1n9ba</a>	Alignment	not modelled	99.4	14	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
49	<a href="#">c4b88A</a>	Alignment	not modelled	99.4	16	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> ancestral (gnca) beta-lactamase class a
50	<a href="#">c4yfmA</a>	Alignment	not modelled	99.4	19	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> class a beta-lactamase from mycobacterium abscessus
51	<a href="#">c2j7vA</a>	Alignment	not modelled	99.4	19	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> tl12115 protein; <b>PDBTitle:</b> structure of pbp-a
52	<a href="#">d1dy6a</a>	Alignment	not modelled	99.3	16	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
53	<a href="#">d1e25a</a>	Alignment	not modelled	99.3	15	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
54	<a href="#">c2qpnA</a>	Alignment	not modelled	99.3	14	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase ges-1; <b>PDBTitle:</b> ges-1 beta-lactamase
55	<a href="#">c5e2eB</a>	Alignment	not modelled	99.3	15	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of beta-lactamase precursor blaA from

						yersinia2 enterocolitica
56	<a href="#">c2v20A_</a>	Alignment	not modelled	99.3	14	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase tem; <b>PDBTitle:</b> structure of a tem-1 beta-lactamase insertant allosterically regulated2 by kanamycin and anions. complex with sulfate.
57	<a href="#">c6mk6C_</a>	Alignment	not modelled	99.3	15	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> carbapenemase vcc-1 from vibrio cholerae n14-02106
58	<a href="#">d1bsga_</a>	Alignment	not modelled	99.3	18	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
59	<a href="#">c3p09A_</a>	Alignment	not modelled	99.3	12	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of beta-lactamase from francisella tularensis
60	<a href="#">c3w4pA_</a>	Alignment	not modelled	99.3	15	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of peni beta-lactamase from burkholderia2 pseudomallei at ph7.5
61	<a href="#">c4eqiA_</a>	Alignment	not modelled	99.3	14	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> carbapenem-hydrolyzing beta-lactamase sfc-1; <b>PDBTitle:</b> crystal structure of serratia fonticola carbapenemase sfc-1
62	<a href="#">c5gs8A_</a>	Alignment	not modelled	99.3	13	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of tla-3 extended-spectrum beta-lactamase
63	<a href="#">c4mxbB_</a>	Alignment	not modelled	99.3	16	<b>PDB header:</b> hydrolase/antibiotic <b>Chain:</b> B: <b>PDB Molecule:</b> bel-1; <b>PDBTitle:</b> crystal structure of extended-spectrum beta-lactamase bel-1 in complex2 with imipenem
64	<a href="#">c5hw3A_</a>	Alignment	not modelled	99.3	13	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of a beta lactamase from burkholderia vietnamiensis
65	<a href="#">c6niqB_</a>	Alignment	not modelled	99.3	19	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of the putative class a beta-lactamase penp from2 rhodopseudomonas palustris
66	<a href="#">c5e43A_</a>	Alignment	not modelled	99.3	20	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of beta-lactamase sros_5706 from streptosporangium2 roseum
67	<a href="#">c3dw0B_</a>	Alignment	not modelled	99.2	15	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> class a carbapenemase kpc-2; <b>PDBTitle:</b> crystal structure of the class a carbapenemase kpc-2 at 1.62 angstrom resolution
68	<a href="#">c3p09B_</a>	Alignment	not modelled	99.2	14	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of beta-lactamase from francisella tularensis
69	<a href="#">d2cc1a1</a>	Alignment	not modelled	99.2	17	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
70	<a href="#">c5hx9A_</a>	Alignment	not modelled	99.2	16	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of beta-lactamase from burkholderia vietnamiensis
71	<a href="#">c1w7fB_</a>	Alignment	not modelled	99.2	21	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of the class a beta-lactamase bs32 inhibited with isocitrate
72	<a href="#">d1o7ea_</a>	Alignment	not modelled	99.2	16	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
73	<a href="#">c2wuqB_</a>	Alignment	not modelled	99.2	16	<b>PDB header:</b> transcription <b>Chain:</b> B: <b>PDB Molecule:</b> beta-lactamase regulatory protein blab; <b>PDBTitle:</b> crystal structure of blab protein from streptomyces cacaio
74	<a href="#">c6bn3A_</a>	Alignment	not modelled	99.1	18	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> ctx-m-151 class a extended-spectrum beta-lactamase apo crystal2 structure at 1.3 angstrom resolution.
75	<a href="#">c3w4qC_</a>	Alignment	not modelled	99.1	17	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of pena beta-lactamase from burkholderia multivorans2 at ph4.2
76	<a href="#">c3cjmA_</a>	Alignment	not modelled	99.1	13	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> putative beta-lactamase; <b>PDBTitle:</b> crystal structure of putative beta-lactamase (np_815223.1) from2 enterococcus faecalis v583 at 1.50 a resolution
77	<a href="#">d1tvfa2</a>	Alignment	not modelled	99.1	14	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
78	<a href="#">c2wuqA_</a>	Alignment	not modelled	99.1	15	<b>PDB header:</b> transcription <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase regulatory protein blab; <b>PDBTitle:</b> crystal structure of blab protein from streptomyces cacaio
79	<a href="#">c4dxbB_</a>	Alignment	not modelled	99.1	22	<b>PDB header:</b> sugar binding protein, hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> maltose-binding periplasmic protein, beta-lactamase tem <b>PDBTitle:</b> 2.29a structure of the engineered mbp tem-1 fusion protein rg13 in2 complex with zinc, p1 space group
80	<a href="#">c6nj1A_</a>	Alignment	not modelled	99.1	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of class a beta-lactamase from clostridium kluyveri2 dsm 555

81	<a href="#">c5tr7A</a>	Alignment	not modelled	99.1	16	<b>PDB header:</b> penicillin-binding protein <b>Chain:</b> A: <b>PDB Molecule:</b> d-alanyl-d-alanine carboxypeptidase; <b>PDBTitle:</b> crystal structure of a putative d-alanyl-d-alanine carboxypeptidase2 from vibrio cholerae o1 biovar eltor str. n16961
82	<a href="#">c5vpqA</a>	Alignment	not modelled	99.1	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of beta-lactamase from burkholderia phymatum
83	<a href="#">c1tvfA</a>	Alignment	not modelled	99.1	18	<b>PDB header:</b> penicillin binding <b>Chain:</b> A: <b>PDB Molecule:</b> penicillin binding protein 4; <b>PDBTitle:</b> crystal structure of penicillin-binding protein 4 (pbp4)2 from staphylococcus aureus
84	<a href="#">c1z6fA</a>	Alignment	not modelled	99.0	13	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> penicillin-binding protein 5; <b>PDBTitle:</b> crystal structure of penicillin-binding protein 5 from e. coli in2 complex with a boronic acid inhibitor
85	<a href="#">c3qhyA</a>	Alignment	not modelled	99.0	17	<b>PDB header:</b> hydrolase/hydrolase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> 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
86	<a href="#">c3lezA</a>	Alignment	not modelled	99.0	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of a halotolerant bacterial beta-lactamase
87	<a href="#">c3cg5A</a>	Alignment	not modelled	99.0	16	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of the covalent adduct formed between tb2 b-lactamase and clavulanate
88	<a href="#">c5fsrB</a>	Alignment	not modelled	98.9	16	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> d-alanyl-d-alanine carboxypeptidase dacc; <b>PDBTitle:</b> crystal structure of penicillin binding protein 6b from2 escherichia coli
89	<a href="#">c3humB</a>	Alignment	not modelled	98.9	18	<b>PDB header:</b> hydrolase/antibiotics <b>Chain:</b> B: <b>PDB Molecule:</b> penicillin-binding protein 4; <b>PDBTitle:</b> crystal structure of penicillin binding protein 4 from staphylococcus2 aureus col in complex with cefotaxime
90	<a href="#">d1djaa</a>	Alignment	not modelled	98.9	12	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
91	<a href="#">c6osuA</a>	Alignment	not modelled	98.9	19	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> d-alanyl-d-alanine carboxypeptidase (penicillin binding) <b>PDBTitle:</b> crystal structure of the d-alanyl-d-alanine carboxypeptidase dacc from2 francisella tularensis
92	<a href="#">c3a3jA</a>	Alignment	not modelled	98.9	18	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> pbp5; <b>PDBTitle:</b> crystal structures of penicillin binding protein 5 from haemophilus2 influenzae
93	<a href="#">d1xp4a2</a>	Alignment	not modelled	98.8	11	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
94	<a href="#">c3it9B</a>	Alignment	not modelled	98.8	15	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> d-alanyl-d-alanine carboxypeptidase dacc; <b>PDBTitle:</b> crystal structure of penicillin-binding protein 6 (pbp6) from e. coli2 in apo state
95	<a href="#">c4k91A</a>	Alignment	not modelled	98.7	19	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> d-ala-d-ala-carboxypeptidase; <b>PDBTitle:</b> crystal structure of penicillin-binding protein 5 (pbp5) from2 pseudomonas aeruginosa in apo state
96	<a href="#">c1xp4C</a>	Alignment	not modelled	98.7	13	<b>PDB header:</b> hydrolase <b>Chain:</b> C: <b>PDB Molecule:</b> d-alanyl-d-alanine carboxypeptidase; <b>PDBTitle:</b> crystal structure of a peptidoglycan synthesis regulatory2 factor (pbp3) from streptococcus pneumoniae
97	<a href="#">d3beca2</a>	Alignment	not modelled	98.7	13	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
98	<a href="#">c5aq7B</a>	Alignment	not modelled	98.6	15	<b>PDB header:</b> chaperone <b>Chain:</b> B: <b>PDB Molecule:</b> d12_db04v3; <b>PDBTitle:</b> darpin-based crystallization chaperones exploit molecular geometry as2 a screening dimension in protein crystallography
99	<a href="#">d1es5a</a>	Alignment	not modelled	98.6	19	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
100	<a href="#">d1alqa</a>	Alignment	not modelled	98.3	18	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
101	<a href="#">c4pprA</a>	Alignment	not modelled	98.1	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> penicillin-binding protein daccb1; <b>PDBTitle:</b> crystal structure of mycobacterium tuberculosis d,d-peptidase rv33302 in complex with meropenem
102	<a href="#">c5zqcC</a>	Alignment	not modelled	98.1	21	<b>PDB header:</b> antibiotic <b>Chain:</b> C: <b>PDB Molecule:</b> lmo2812 protein; <b>PDBTitle:</b> crystal structure of penicillin-binding protein d2 from listeria2 monocytogenes in the cefuroxime bound form
103	<a href="#">c2bcfA</a>	Alignment	not modelled	98.0	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> probable d-alanyl-d-alanine carboxypeptidase dacc2; <b>PDBTitle:</b> crystal structure of a evolved putative penicillin-binding protein2 homolog, rv2911, from mycobacterium tuberculosis.
104	<a href="#">c3mfdB</a>	Alignment	not modelled	98.0	21	<b>PDB header:</b> hydrolase <b>Chain:</b> B: <b>PDB Molecule:</b> d-alanyl-d-alanine carboxypeptidase dacc; <b>PDBTitle:</b> the structure of the beta-lactamase superfamily domain of d-alanyl-d-2 alanine carboxypeptidase from bacillus subtilis
105	<a href="#">c2xftA</a>	Alignment	not modelled	97.8	10	<b>PDB header:</b> hydrolase <b>Chain:</b> A: <b>PDB Molecule:</b> orf12; <b>PDBTitle:</b> structural and mechanistic studies on a cephalosporin esterase from2 the clavulanic acid biosynthesis pathway
						<b>PDB header:</b> hydrolase

106	<a href="#">c6aziA_</a>	Alignment	not modelled	97.5	14	<b>Chain:</b> A; <b>PDB Molecule:</b> d-alanyl-d-alanine endopeptidase; <b>PDBTitle:</b> 1.75 angstrom resolution crystal structure of d-alanyl-d-alanine2 endopeptidase from enterobacter cloacae in complex with covalently3 bound boronic acid
107	<a href="#">c2jc7A_</a>	Alignment	not modelled	97.2	17	<b>PDB header:</b> hydrolase <b>Chain:</b> A; <b>PDB Molecule:</b> beta-lactamase oxa-24; <b>PDBTitle:</b> the crystal structure of the carbapenemase oxa-24 reveals2 new insights into the mechanism of carbapenem-hydrolysis
108	<a href="#">c5uy7A_</a>	Alignment	not modelled	96.4	17	<b>PDB header:</b> transferase <b>Chain:</b> A; <b>PDB Molecule:</b> peptidoglycan glycosyltransferase; <b>PDBTitle:</b> crystal structure of a peptidoglycan glycosyltransferase from2 burkholderia ambifaria
109	<a href="#">d1w79a1</a>	Alignment	not modelled	96.1	24	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> Dac-like
110	<a href="#">d1u60a_</a>	Alignment	not modelled	95.7	22	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> Glutaminase
111	<a href="#">c2dfwA_</a>	Alignment	not modelled	95.7	19	<b>PDB header:</b> hydrolase <b>Chain:</b> A; <b>PDB Molecule:</b> salt-tolerant glutaminase; <b>PDBTitle:</b> crystal structure of a major fragment of the salt-tolerant2 glutaminase from micrococcus luteus k-3
112	<a href="#">d1rp5a4</a>	Alignment	not modelled	95.5	11	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
113	<a href="#">c6n1nA_</a>	Alignment	not modelled	95.4	15	<b>PDB header:</b> hydrolase <b>Chain:</b> A; <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> crystal structure of class d beta-lactamase from sebalidella termitidis2 atcc 33386
114	<a href="#">d1pyya4</a>	Alignment	not modelled	95.4	11	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
115	<a href="#">c4zdxA_</a>	Alignment	not modelled	95.4	14	<b>PDB header:</b> hydrolase <b>Chain:</b> A; <b>PDB Molecule:</b> beta-lactamase; <b>PDBTitle:</b> structure of oxa-51 beta-lactamase
116	<a href="#">c1qmfA_</a>	Alignment	not modelled	95.2	12	<b>PDB header:</b> cell cycle <b>Chain:</b> A; <b>PDB Molecule:</b> penicillin-binding protein 2x; <b>PDBTitle:</b> penicillin-binding protein 2x (pbp-2x) acyl-enzyme complex
117	<a href="#">d1w5da1</a>	Alignment	not modelled	95.2	19	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> Dac-like
118	<a href="#">c3pbnA_</a>	Alignment	not modelled	94.9	12	<b>PDB header:</b> hydrolase/antibiotic <b>Chain:</b> A; <b>PDB Molecule:</b> penicillin-binding protein 3; <b>PDBTitle:</b> crystal structure of apo pbp3 from pseudomonas aeruginosa
119	<a href="#">d1nrfa_</a>	Alignment	not modelled	94.8	17	<b>Fold:</b> beta-lactamase/transpeptidase-like <b>Superfamily:</b> beta-lactamase/transpeptidase-like <b>Family:</b> beta-Lactamase/D-ala carboxypeptidase
120	<a href="#">c3pbqA_</a>	Alignment	not modelled	94.4	12	<b>PDB header:</b> hydrolase/antibiotic <b>Chain:</b> A; <b>PDB Molecule:</b> penicillin-binding protein 3; <b>PDBTitle:</b> crystal structure of pbp3 complexed with imipenem