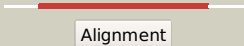

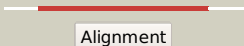

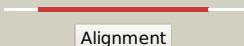







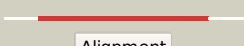











Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1923_(lipD)_2175180_2176520
Date	Fri Aug 2 13:30:54 BST 2019
Unique Job ID	5b35f534e345cc0d

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5gkvA_	 Alignment		100.0	32	PDB header: hydrolase Chain: A: PDB Molecule: esterase a; PDBTitle: crystal structure of a novel penicillin-binding protein (pbp) homolog2 from caulobacter crescentus
2	c5gmxA_	 Alignment		100.0	33	PDB header: hydrolase Chain: A: PDB Molecule: carboxylesterase; PDBTitle: crystal structure of a family viii carboxylesterase
3	c3zytA_	 Alignment		100.0	25	PDB header: hydrolase Chain: A: PDB Molecule: esterase a; PDBTitle: structure determination of esta from arthrobacter nitroguajacolicus2 rue61a
4	c4p6bB_	 Alignment		100.0	15	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
5	c4ivkA_	 Alignment		100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: carboxylesterases; PDBTitle: crystal structure of a fammily viii carboxylesterase in a complex with2 cephalothin.
6	c3hleA_	 Alignment		100.0	17	PDB header: transferase Chain: A: PDB Molecule: transesterase; PDBTitle: simvastatin synthase (lovd), from aspergillus terreus, s5 mutant, s76a2 mutant, complex with monacolin j acid
7	c2qmiH_	 Alignment		100.0	20	PDB header: hydrolase Chain: H: PDB Molecule: pbp related beta-lactamase; PDBTitle: structure of the octameric penicillin-binding protein2 homologue from pyrococcus abyssi
8	d1ci9a_	 Alignment		100.0	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
9	d1rgya_	 Alignment		100.0	18	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
10	c5tgfB_	 Alignment		100.0	20	PDB header: hydrolase Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of putative beta-lactamase from bacteroides dorei2 dsm 17855
11	d2hdsa1	 Alignment		100.0	20	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase

12	c1ei5A_	Alignment		100.0	21	PDB header: hydrolase Chain: A: PDB Molecule: d-aminopeptidase; PDBTitle: crystal structure of a d-aminopeptidase from ochrobactrum2 anthropi
13	c3ws1A_	Alignment		100.0	21	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: n288q-n321q mutant beta-lactamase derived from chromohalobacter sp.5602 (condition-1b)
14	d1onha_	Alignment		100.0	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
15	c2wzzA_	Alignment		100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: amp-c beta-lactamase (pseudomonas aeruginosa)in complex2 with compound m-03
16	c5e2hB_	Alignment		100.0	20	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of d-alanine carboxypeptidase ampc from2 mycobacterium smegmatis
17	c2qz6A_	Alignment		100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: first crystal structure of a psychrophile class c beta-2 lactamase
18	c3ozhA_	Alignment		100.0	17	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase/d-alanine carboxypeptidase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 yersinia pestis
19	d2drwa1	Alignment		100.0	21	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
20	c6njka_	Alignment		100.0	19	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from sulfitobacter sp. ee-36
21	c4y7pA_	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: alkaline d-peptidase; PDBTitle: structure of alkaline d-peptidase from bacillus cereus
22	c4netA_	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: ampc; PDBTitle: crystal structure of adc-1 beta-lactamase
23	c1zkjA_	Alignment	not modelled	100.0	18	PDB header: hydrolase Chain: A: PDB Molecule: extended-spectrum beta-lactamase; PDBTitle: structural basis for the extended substrate spectrum of cmv-2 10, a plasmid-encoded class c beta-lactamase
24	d1yqsa1	Alignment	not modelled	100.0	22	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	c5e2gA_	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of d-alanine carboxypeptidase ampc from burkholderia2 cenocepacia
27	c3o3vB_	Alignment	not modelled	100.0	22	PDB header: hydrolase Chain: B: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of clbp peptidase domain
28	c3tg9A_	Alignment	not modelled	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
						PDB header: hydrolase

29	c3wwxA_	Alignment	not modelled	100.0	22	Chain: A: PDB Molecule: s12 family peptidase; PDBTitle: crystal structure of d-stereospecific amidohydrolase from streptomyces2 sp. 82f2
30	c4gdnB_	Alignment	not modelled	100.0	15	PDB header: hydrolase Chain: B: PDB Molecule: protein flp; PDBTitle: structure of fmta-like protein
31	d2dcfa1	Alignment	not modelled	100.0	21	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
32	c5eviA_	Alignment	not modelled	100.0	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 chromobacterium violaceum
33	c5eviC_	Alignment	not modelled	100.0	20	PDB header: hydrolase Chain: C: PDB Molecule: beta-lactamase/d-alanine carboxypeptidase; PDBTitle: crystal structure of beta-lactamase/d-alanine carboxypeptidase from2 pseudomonas syringae
34	d1ei5a3	Alignment	not modelled	100.0	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
35	c4gb7A_	Alignment	not modelled	100.0	15	PDB header: hydrolase Chain: A: PDB Molecule: 6-aminohexanoate-dimer hydrolase; PDBTitle: putative 6-aminohexanoate-dimer hydrolase from bacillus anthracis
36	c3i7jB_	Alignment	not modelled	100.0	25	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	c1tvfA_	Alignment	not modelled	99.2	18	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	d1tvfa2	Alignment	not modelled	99.2	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
39	d1buea_	Alignment	not modelled	99.2	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
40	c2wuqB_	Alignment	not modelled	99.2	17	PDB header: transcription Chain: B: PDB Molecule: beta-lactamase regulatory protein blab; PDBTitle: crystal structure of blab protein from streptomyces cacaoi
41	d1m40a_	Alignment	not modelled	99.2	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
42	c2j7vA_	Alignment	not modelled	99.2	17	PDB header: hydrolase Chain: A: PDB Molecule: tl12115 protein; PDBTitle: structure of pbp-a
43	d1hzoa_	Alignment	not modelled	99.1	13	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
44	d1n9ba_	Alignment	not modelled	99.1	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
45	c4ewfA_	Alignment	not modelled	99.1	16	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: the crystal structure of beta-lactamase from sphaerobacter2 thermophilus dsm 20745
46	c3humB_	Alignment	not modelled	99.1	18	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
47	c4mxbB_	Alignment	not modelled	99.1	20	PDB header: hydrolase/antibiotic Chain: B: PDB Molecule: bel-1; PDBTitle: crystal structure of extended-spectrum beta-lactamase bel-1 in complex2 with imipenem
48	d1iysa_	Alignment	not modelled	99.1	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
49	c2wuqA_	Alignment	not modelled	99.0	16	PDB header: transcription Chain: A: PDB Molecule: beta-lactamase regulatory protein blab; PDBTitle: crystal structure of blab protein from streptomyces cacaoi
50	c1z6fA_	Alignment	not modelled	99.0	24	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
51	c6mk6C_	Alignment	not modelled	99.0	11	PDB header: hydrolase Chain: C: PDB Molecule: beta-lactamase; PDBTitle: carbapenemase vcc-1 from vibrio cholerae n14-02106
52	c2v20A_	Alignment	not modelled	99.0	15	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	c3p09A_	Alignment	not modelled	99.0	15	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from francisella tularensis
54	c2qpna_	Alignment	not modelled	99.0	15	PDB header: hydrolase Chain: A: PDB Molecule: beta-lactamase ges-1; PDBTitle: ges-1 beta-lactamase
						PDB header: penicillin-binding protein

55	c5tr7A_	Alignment	not modelled	99.0	26	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
56	c5tfqA_	Alignment	not modelled	99.0	14	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
57	c3it9B_	Alignment	not modelled	99.0	22	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
58	c4b88A_	Alignment	not modelled	99.0	18	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: ancestral (gnca) beta-lactamase class a
59	d1bsga_	Alignment	not modelled	99.0	23	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
60	c4hesA_	Alignment	not modelled	98.9	18	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.
61	c1xp4C_	Alignment	not modelled	98.9	14	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
62	c5fsrB_	Alignment	not modelled	98.9	21	PDB header: hydrolase Chain: B; PDB Molecule: d-alanyl-d-alanine carboxypeptidase dacd; PDBTitle: crystal structure of penicillin binding protein 6b from2 escherichia coli
63	c2ov5A_	Alignment	not modelled	98.9	14	PDB header: hydrolase Chain: A; PDB Molecule: carbapenemase; PDBTitle: crystal structure of the kpc-2 carbapenemase
64	d1g6aa_	Alignment	not modelled	98.9	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
65	c3w4pA_	Alignment	not modelled	98.9	17	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of peni beta-lactamase from burkholderia2 pseudomallei at ph7.5
66	d1i2sa_	Alignment	not modelled	98.9	17	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
67	c1i2sA_	Alignment	not modelled	98.9	17	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: beta-lactamase from bacillus licheniformis bs3
68	c6niqB_	Alignment	not modelled	98.9	21	PDB header: hydrolase Chain: B; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the putative class a beta-lactamase penp from2 rhodopseudomonas palustris
69	c4k91A_	Alignment	not modelled	98.9	21	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
70	c4dxbB_	Alignment	not modelled	98.9	14	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
71	d1xp4a2	Alignment	not modelled	98.8	14	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
72	c5e2eB_	Alignment	not modelled	98.8	14	PDB header: hydrolase Chain: B; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase precursor blaA from yersinia2 enterocolitica
73	d1e25a_	Alignment	not modelled	98.8	12	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
74	c5hx9A_	Alignment	not modelled	98.8	16	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from burkholderia vietnamiensis
75	c5vqpA_	Alignment	not modelled	98.8	15	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from burkholderia phymatum
76	d2cc1a1	Alignment	not modelled	98.8	20	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
77	d1dy6a_	Alignment	not modelled	98.8	15	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
78	c5e43A_	Alignment	not modelled	98.8	16	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase sros_5706 from streptosporangium2 roseum
79	c3a3jA_	Alignment	not modelled	98.8	18	PDB header: hydrolase Chain: A; PDB Molecule: pbp5; PDBTitle: crystal structures of penicillin binding protein 5 from haemophilus2 influenzae
80	c3dw0B_	Alignment	not modelled	98.8	16	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
81	c6hr3A_	Alignment	not modelled	98.8	17	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase;

81	c6u13A	Alignment	not modelled	98.8	17	PDBTitle: ctx-m-151 class a extended-spectrum beta-lactamase apo crystal2 structure at 1.3 angstrom resolution. PDB header: hydrolase
82	c6osuA	Alignment	not modelled	98.8	25	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
83	c5hw3A	Alignment	not modelled	98.7	20	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a beta lactamase from burkholderia vietnamiensis
84	d1o7ea	Alignment	not modelled	98.7	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
85	c3p09B	Alignment	not modelled	98.7	14	PDB header: hydrolase Chain: B; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of beta-lactamase from francisella tularensis
86	c4yfmA	Alignment	not modelled	98.7	19	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: class a beta-lactamase from mycobacterium abscessus
87	c4eqiA	Alignment	not modelled	98.7	12	PDB header: hydrolase Chain: A; PDB Molecule: carbapenem-hydrolyzing beta-lactamase sfc-1; PDBTitle: crystal structure of serratia fonticola carbapenemase sfc-1
88	c3w4qC	Alignment	not modelled	98.7	14	PDB header: hydrolase Chain: C; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of pena beta-lactamase from burkholderia multivorans2 at ph4.2
89	d1es5a	Alignment	not modelled	98.6	26	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
90	d3beca2	Alignment	not modelled	98.6	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
91	c3qhyA	Alignment	not modelled	98.5	17	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
92	c3cg5A	Alignment	not modelled	98.5	16	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the covalent adduct formed between tb2 b-lactamase and clavulanate
93	c5gs8A	Alignment	not modelled	98.5	15	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of tla-3 extended-spectrum beta-lactamase
94	c6nj1A	Alignment	not modelled	98.4	17	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of class a beta-lactamase from clostridium kluveri2 dsm 555
95	d1alqa	Alignment	not modelled	98.4	16	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
96	c3lezA	Alignment	not modelled	98.3	15	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of a halotolerant bacterial beta-lactamase
97	c1w7fB	Alignment	not modelled	98.3	19	PDB header: hydrolase Chain: B; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the class a beta-lactamase bs32 inhibited with isocitrate
98	d1djaa	Alignment	not modelled	98.1	11	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
99	c5zqeC	Alignment	not modelled	98.1	23	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
100	c4pprA	Alignment	not modelled	98.0	22	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
101	c6aziA	Alignment	not modelled	98.0	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
102	c3cjmA	Alignment	not modelled	97.9	14	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
103	c3mfdB	Alignment	not modelled	97.9	20	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
104	c5aq7B	Alignment	not modelled	97.7	19	PDB header: chaperone Chain: B; PDB Molecule: d12_db04v3; PDBTitle: darpin-based crystallization chaperones exploit molecular geometry as2 a screening dimension in protein crystallography
105	c2bcfA	Alignment	not modelled	97.7	26	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.
106	c2czdA	Alignment	not modelled	97.6	21	PDB header: hydrolase Chain: A; PDB Molecule: glutaminase kidney isoform;

106	c3czuA_	Alignment	not modelled	97.0	21	PDBTitle: crystal structure of human glutaminase in complex with l-glutamate PDB header: hydrolase
107	c3ss4C_	Alignment	not modelled	97.5	19	Chain: C; PDB Molecule: glutaminase c; PDBTitle: crystal structure of mouse glutaminase c, phosphate-bound form
108	c3uo9B_	Alignment	not modelled	97.5	20	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
109	c5uqeB_	Alignment	not modelled	97.4	20	PDB header: hydrolase Chain: B; PDB Molecule: glutaminase kidney isoform, mitochondrial; PDBTitle: multidomain structure of human kidney-type glutaminase(kga/gls)
110	c2jc7A_	Alignment	not modelled	97.4	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
111	c2pbyB_	Alignment	not modelled	97.4	16	PDB header: hydrolase Chain: B; PDB Molecule: glutaminase; PDBTitle: probable glutaminase from geobacillus kaustophilus hta426
112	c2xftA_	Alignment	not modelled	97.3	12	PDB header: hydrolase Chain: A; PDB Molecule: orf12; PDBTitle: structural and mechanistic studies on a cephalosporin esterase from2 the clavulanic acid biosynthesis pathway
113	c3lo7B_	Alignment	not modelled	97.3	16	PDB header: transferase Chain: B; PDB Molecule: penicillin-binding protein a; PDBTitle: crystal structure of pbpa from mycobacterium tuberculosis
114	d1u60a_	Alignment	not modelled	97.2	19	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: Glutaminase
115	c3pbqA_	Alignment	not modelled	97.2	18	PDB header: hydrolase/antibiotic Chain: A; PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of pbp3 complexed with imipenem
116	c3oc2A_	Alignment	not modelled	97.2	22	PDB header: penicillin-binding protein Chain: A; PDB Molecule: penicillin-binding protein 3; PDBTitle: crystal structure of penicillin-binding protein 3 from pseudomonas2 aeruginosa
117	d1rp5a4	Alignment	not modelled	97.0	13	Fold: beta-lactamase/transpeptidase-like Superfamily: beta-lactamase/transpeptidase-like Family: beta-Lactamase/D-ala carboxypeptidase
118	c6nhsA_	Alignment	not modelled	97.0	15	PDB header: hydrolase Chain: A; PDB Molecule: beta-lactamase; PDBTitle: crystal structure of the beta lactamase class d ybxi from nostoc
119	c3ih9A_	Alignment	not modelled	96.9	21	PDB header: hydrolase Chain: A; PDB Molecule: salt-tolerant glutaminase; PDBTitle: crystal structure analysis of mglu in its tris form
120	c3lo7A_	Alignment	not modelled	96.7	18	PDB header: transferase Chain: A; PDB Molecule: penicillin-binding protein a; PDBTitle: crystal structure of pbpa from mycobacterium tuberculosis