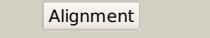
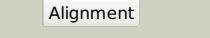
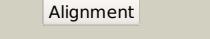
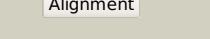
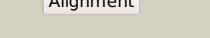
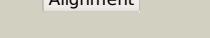
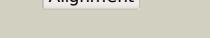
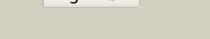


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD0951_(sucC)_1061968_1063131
Date	Fri Jul 26 01:50:54 BST 2019
Unique Job ID	c952ffc6639ed991

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6melB_			100.0	40	PDB header: ligase Chain: B; PDB Molecule: succinate--coa ligase [adp-forming] subunit beta; PDBTitle: succinyl-coa synthase from campylobacter jejuni
2	c2nu9E_			100.0	42	PDB header: ligase Chain: E; PDB Molecule: succinyl-coa synthetase beta chain; PDBTitle: c123at mutant of e. coli succinyl-coa synthetase2 orthorhombic crystal form
3	c1eucB_			100.0	40	PDB header: ligase Chain: B; PDB Molecule: succinyl-coa synthetase, beta chain; PDBTitle: crystal structure of dephosphorylated pig heart, gtp-2 specific succinyl-coa synthetase
4	c6g4qB_			100.0	37	PDB header: ligase Chain: B; PDB Molecule: succinate--coa ligase [adp-forming] subunit beta, PDBTitle: structure of human adp-forming succinyl-coa ligase complex suclg1-2 sucla2
5	c6hxqB_			100.0	30	PDB header: lyase Chain: B; PDB Molecule: citryl-coa synthetase large subunit; PDBTitle: structure of citryl-coa synthetase from hydrogenobacter thermophilus
6	c6mggD_			100.0	39	PDB header: ligase Chain: D; PDB Molecule: succinate--coa ligase [adp-forming] subunit beta; PDBTitle: succinyl-coa synthase from francisella tularensis, phosphorylated, in2 complex with coa
7	c3ufxG_			100.0	51	PDB header: ligase Chain: G; PDB Molecule: succinyl-coa synthetase beta subunit; PDBTitle: thermus aquaticus succinyl-coa synthetase in complex with gdp-mn2+
8	c3mwda_			100.0	25	PDB header: transferase Chain: A; PDB Molecule: atp-citrate synthase; PDBTitle: truncated human atp-citrate lyase with citrate bound
9	c6hxIC_			100.0	23	PDB header: lyase Chain: C; PDB Molecule: citrate lyase, subunit 1; PDBTitle: structure of atp citrate lyase from methanothrix soehngenii in complex2 with citrate and coenzyme a
10	c6qfbB_			100.0	24	PDB header: lyase Chain: B; PDB Molecule: atp-citrate synthase; PDBTitle: structure of the human atp citrate lyase holoenzyme in complex with2 citrate, coenzyme a and mg.adp
11	c6hxJA_			100.0	23	PDB header: lyase Chain: A; PDB Molecule: atp-citrate lyase beta-subunit; PDBTitle: structure of atp citrate lyase from chlorobium limicola in complex2 with citrate and coenzyme a.

12	d1eucb2			100.0	38	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: Succinyl-CoA synthetase, beta-chain, N-terminal domain
13	d2nu7b2			100.0	40	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: Succinyl-CoA synthetase, beta-chain, N-terminal domain
14	c6no2B			100.0	36	PDB header: ligase Chain: B: PDB Molecule: succinate--coa ligase [adp-forming] subunit beta; PDBTitle: adp bound to k114bd mutant atp-grasp fold of blastocystis hominis2 succinyl-coa synthetase
15	c1wr2A			100.0	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein ph1789; PDBTitle: crystal structure of ph1788 from pyrococcus horikoshii ot3
16	d2nu7b1			100.0	44	Fold: Flavodoxin-like Superfamily: Succinyl-CoA synthetase domains Family: Succinyl-CoA synthetase domains
17	c4yakD			100.0	18	PDB header: ligase Chain: D: PDB Molecule: beta subunit of acyl-coa synthetase (ndp forming); PDBTitle: ca. korarchaeum cryptofilum dinucleotide forming acetyl-coenzyme a2 synthetase 1 in complex with coenzyme a, acetyl-coenzyme a and with3 phosphorylated phosphohistidine segment (site i orientation)
18	d1eucb1			100.0	43	Fold: Flavodoxin-like Superfamily: Succinyl-CoA synthetase domains Family: Succinyl-CoA synthetase domains
19	c4yajA			99.8	24	PDB header: ligase Chain: A: PDB Molecule: alpha subunit of acetyl-coenzyme a synthetase PDBTitle: ca. korarchaeum cryptofilum dinucleotide forming acetyl-coenzyme a2 synthetase 1 (apo form)
20	d2csua3			99.8	20	Fold: Flavodoxin-like Superfamily: Succinyl-CoA synthetase domains Family: Succinyl-CoA synthetase domains
21	c2csuB		not modelled	99.7	22	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: 457aa long hypothetical protein; PDBTitle: crystal structure of ph0766 from pyrococcus horikoshii ot3
22	c1m6vE		not modelled	99.5	20	PDB header: ligase Chain: E: PDB Molecule: carbamoyl phosphate synthetase large chain; PDBTitle: crystal structure of the g359f (small subunit) point mutant of2 carbamoyl phosphate synthetase
23	d1a9xa5		not modelled	99.4	19	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
24	c3bg5C		not modelled	99.4	21	PDB header: ligase Chain: C: PDB Molecule: pyruvate carboxylase; PDBTitle: crystal structure of staphylococcus aureus pyruvate carboxylase
25	c1w96B		not modelled	99.4	21	PDB header: ligase Chain: B: PDB Molecule: acetyl-coenzyme a carboxylase; PDBTitle: crystal structure of biotin carboxylase domain of acetyl-2 coenzyme a carboxylase from saccharomyces cerevisiae in3 complex with soraphen a
26	c1ulzA		not modelled	99.3	23	PDB header: ligase Chain: A: PDB Molecule: pyruvate carboxylase n-terminal domain; PDBTitle: crystal structure of the biotin carboxylase subunit of pyruvate2 carboxylase
27	c1vkzA		not modelled	99.3	16	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylamine--glycine ligase; PDBTitle: crystal structure of phosphoribosylamine--glycine ligase (tm1250) from2 thermotoga maritima at 2.30 a resolution
28	c3g8cB		not modelled	99.3	20	PDB header: ligase Chain: B: PDB Molecule: biotin carboxylase; PDBTitle: crystal structure of biotin carboxylase in complex with

						biotin,2 bicarbonate, adp and mg ion
29	c2hjwA	Alignment	not modelled	99.3	18	PDB header: ligase Chain: A: PDB Molecule: acetyl-coa carboxylase 2; PDBTitle: crystal structure of the bc domain of acc2
30	c2xd4A	Alignment	not modelled	99.3	26	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylamine--glycine ligase; PDBTitle: nucleotide-bound structures of bacillus subtilis glycaminamide2 ribonucleotide synthetase
31	c2yyaB	Alignment	not modelled	99.3	25	PDB header: ligase Chain: B: PDB Molecule: phosphoribosylamine--glycine ligase; PDBTitle: crystal structure of gar synthetase from aquifex aeolicus
32	c3lp8A	Alignment	not modelled	99.3	21	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylamine-glycine ligase; PDBTitle: crystal structure of phosphoribosylamine-glycine ligase from ehrlichia chaffeensis
33	c3tw6B	Alignment	not modelled	99.3	20	PDB header: ligase/activator Chain: B: PDB Molecule: pyruvate carboxylase protein; PDBTitle: structure of rhizobium etli pyruvate carboxylase t882a with the2 allosteric activator, acetyl coenzyme-a
34	c3ouzA	Alignment	not modelled	99.3	23	PDB header: ligase Chain: A: PDB Molecule: biotin carboxylase; PDBTitle: crystal structure of biotin carboxylase-adp complex from campylobacter2 jejuni
35	c2dzdB	Alignment	not modelled	99.3	22	PDB header: ligase Chain: B: PDB Molecule: pyruvate carboxylase; PDBTitle: crystal structure of the biotin carboxylase domain of pyruvate2 carboxylase
36	d1w96a3	Alignment	not modelled	99.2	21	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
37	c5cskB	Alignment	not modelled	99.2	22	PDB header: ligase Chain: B: PDB Molecule: acetyl-coa carboxylase; PDBTitle: crystal structure of yeast acetyl-coa carboxylase, unbiotinylated
38	c2ip4A	Alignment	not modelled	99.2	31	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylamine--glycine ligase; PDBTitle: crystal structure of glycaminamide ribonucleotide synthetase from2 thermus thermophilus hb8
39	c3vmmA	Alignment	not modelled	99.2	17	PDB header: ligase Chain: A: PDB Molecule: alanine-anticapsin ligase bacd; PDBTitle: crystal structure of bacd, an l-amino acid dipeptide ligase from2 bacillus subtilis
40	d1ulza3	Alignment	not modelled	99.2	23	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
41	c5douC	Alignment	not modelled	99.2	19	PDB header: ligase Chain: C: PDB Molecule: carbamoyl-phosphate synthase [ammonia], mitochondrial; PDBTitle: crystal structure of human carbamoyl phosphate synthetase i (cps1),2 ligand-bound form
42	c6g2dC	Alignment	not modelled	99.1	18	PDB header: ligase Chain: C: PDB Molecule: acetyl-coa carboxylase 1; PDBTitle: citrate-induced acetyl-coa carboxylase (acc-cit) filament at 5.4 a2 resolution
43	d1a9xa6	Alignment	not modelled	99.1	22	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
44	d1vkza3	Alignment	not modelled	99.1	16	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
45	c4wd3B	Alignment	not modelled	99.1	15	PDB header: ligase Chain: B: PDB Molecule: l-amino acid ligase; PDBTitle: crystal structure of an l-amino acid ligase riza
46	c2vpqA	Alignment	not modelled	99.1	24	PDB header: ligase Chain: A: PDB Molecule: acetyl-coa carboxylase; PDBTitle: crystal structure of biotin carboxylase from s. aureus2 complexed with amppnp
47	c1ehiB	Alignment	not modelled	99.1	17	PDB header: ligase Chain: B: PDB Molecule: d-alanine:d-lactate ligase; PDBTitle: d-alanine:d-lactate ligase (lmddl2) of vancomycin-resistant2 leuconostoc mesenteroides
48	c3gidB	Alignment	not modelled	99.1	18	PDB header: ligase Chain: B: PDB Molecule: acetyl-coa carboxylase 2; PDBTitle: the biotin carboxylase (bc) domain of human acetyl-coa carboxylase 22 (acc2) in complex with soraphen a
49	c5vz0D	Alignment	not modelled	99.1	20	PDB header: ligase Chain: D: PDB Molecule: pyruvate carboxylase; PDBTitle: crystal structure of lactococcus lactis pyruvate carboxylase g746a2 mutant in complex with cyclic-di-amp
50	d2j9ga3	Alignment	not modelled	99.1	20	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
51	c2ys6A	Alignment	not modelled	99.1	28	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylglycaminamide synthetase; PDBTitle: crystal structure of gar synthetase from geobacillus kaustophilus
52	c3ln7A	Alignment	not modelled	99.1	20	PDB header: ligase Chain: A: PDB Molecule: glutathione biosynthesis bifunctional protein gshab; PDBTitle: crystal structure of a bifunctional glutathione synthetase from2 pasteurella multocida
53	c3n6rK	Alignment	not modelled	99.0	19	PDB header: ligase Chain: K: PDB Molecule: propionyl-coa carboxylase, alpha subunit; PDBTitle: crystal structure of the holoenzyme of propionyl-coa carboxylase (pcc)
54	c3wvqA	Alignment	not modelled	99.0	17	PDB header: biosynthetic protein Chain: A: PDB Molecule: pgm1;

						PDBTitle: structure of atp grasp protein
55	c2cqyA	Alignment	not modelled	99.0	30	PDB header: ligase Chain: A: PDB Molecule: propionyl-coa carboxylase alpha chain, PDBTitle: solution structure of b domain from human propionyl-coa2 carboxylase alpha subunit
56	c4qslE	Alignment	not modelled	99.0	19	PDB header: ligase Chain: E: PDB Molecule: pyruvate carboxylase; PDBTitle: crystal structure of listeria monocytogenes pyruvate carboxylase
57	c3ln6A	Alignment	not modelled	99.0	20	PDB header: ligase Chain: A: PDB Molecule: glutathione biosynthesis bifunctional protein gshab; PDBTitle: crystal structure of a bifunctional glutathione synthetase from2 streptococcus agalactiae
58	c1kjA	Alignment	not modelled	99.0	17	PDB header: transferase Chain: A: PDB Molecule: phosphoribosylglycinamide formyltransferase 2; PDBTitle: crystal structure of glycnamide ribonucleotide transformylase in2 complex with mg-atp-gamma-s
59	c3i12A	Alignment	not modelled	99.0	17	PDB header: ligase Chain: A: PDB Molecule: d-alanine-d-alanine ligase a; PDBTitle: the crystal structure of the d-alanyl-alanine synthetase a from2 salmonella enterica subsp. enterica serovar typhimurium str. lt2
60	c3dmvA	Alignment	not modelled	99.0	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: protein fdra; PDBTitle: crystal structure of a predicated acyl-coa synthetase from e.coli
61	c2pvpB	Alignment	not modelled	99.0	19	PDB header: ligase Chain: B: PDB Molecule: d-alanine-d-alanine ligase; PDBTitle: crystal structure of d-alanine-d-alanine ligase from helicobacter pylori
62	c5mlkA	Alignment	not modelled	99.0	19	PDB header: ligase Chain: A: PDB Molecule: acetyl-coa carboxylase; PDBTitle: biotin dependent carboxylase acca3 dimer from mycobacterium2 tuberculosis (rv3285)
63	d1iowa2	Alignment	not modelled	98.9	19	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: ATP-binding domain of peptide synthetases
64	c3u9sE	Alignment	not modelled	98.9	20	PDB header: ligase Chain: E: PDB Molecule: methylcrotonyl-coa carboxylase, alpha-subunit; PDBTitle: crystal structure of p. aeruginosa 3-methylcrotonyl-coa carboxylase2 (mcc) 750 kd holoenzyme, coa complex
65	c2dlnA	Alignment	not modelled	98.9	20	PDB header: ligase(peptidoglycan synthesis) Chain: A: PDB Molecule: d-alanine-d-alanine ligase; PDBTitle: vancomycin resistance: structure of d-alanine:d-alanine ligase at 2.32 angstroms resolution
66	c4mamB	Alignment	not modelled	98.9	15	PDB header: lyase Chain: B: PDB Molecule: phosphoribosylaminoimidazole carboxylase, atpase subunit; PDBTitle: the crystal structure of phosphoribosylaminoimidazole carboxylase2 atpase subunit of francisella tularensis subsp. tularensis schu s4 in3 complex with an adp analog, amp-cp
67	c3u9sA	Alignment	not modelled	98.9	20	PDB header: ligase Chain: A: PDB Molecule: methylcrotonyl-coa carboxylase, alpha-subunit; PDBTitle: crystal structure of p. aeruginosa 3-methylcrotonyl-coa carboxylase2 (mcc) 750 kd holoenzyme, coa complex
68	c5csIA	Alignment	not modelled	98.9	20	PDB header: ligase Chain: A: PDB Molecule: acetyl-coa carboxylase; PDBTitle: crystal structure of the 500 kd yeast acetyl-coa carboxylase2 holoenzyme dimer
69	c3lwba	Alignment	not modelled	98.9	19	PDB header: ligase Chain: A: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: crystal structure of apo d-alanine:d-alanine ligase (ddl) from2 mycobacterium tuberculosis
70	d1ehia2	Alignment	not modelled	98.8	17	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: ATP-binding domain of peptide synthetases
71	c2i80B	Alignment	not modelled	98.8	17	PDB header: ligase Chain: B: PDB Molecule: d-alanine-d-alanine ligase; PDBTitle: allosteric inhibition of staphylococcus aureus d-alanine:d-alanine2 ligase revealed by crystallographic studies
72	c2qk4A	Alignment	not modelled	98.8	23	PDB header: ligase Chain: A: PDB Molecule: trifunctional purine biosynthetic protein adenosine-3'; PDBTitle: human glycaminamide ribonucleotide synthetase
73	c2gpwC	Alignment	not modelled	98.8	19	PDB header: ligase Chain: C: PDB Molecule: biotin carboxylase; PDBTitle: crystal structure of the biotin carboxylase subunit, f363a2 mutant, of acetyl-coa carboxylase from escherichia coli.
74	c4fu0B	Alignment	not modelled	98.8	12	PDB header: ligase Chain: B: PDB Molecule: d-alanine--d-alanine ligase 7; PDBTitle: crystal structure of vang d-ala:d-ser ligase from enterococcus2 faecalis
75	c3hb1A	Alignment	not modelled	98.8	20	PDB header: ligase Chain: A: PDB Molecule: pyruvate carboxylase; PDBTitle: crystal structure of s. aureus pyruvate carboxylase t908a mutant
76	d3etja3	Alignment	not modelled	98.8	15	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
77	c6dgIA	Alignment	not modelled	98.8	14	PDB header: ligase Chain: A: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: the crystal structure of d-alanyl-alanine synthetase a from vibrio2 cholerae o1 biovar eltor str. n16961
78	c3e5nA	Alignment	not modelled	98.8	21	PDB header: ligase Chain: A: PDB Molecule: d-alanine-d-alanine ligase a; PDBTitle: crystal strucuture of d-alanine-d-alanine ligase from2

					xanthomonas oryzae pv. oryzae kacc10331
79	c1gsoA_	Alignment	not modelled	98.7	PDB header: ligase Chain: A: PDB Molecule: protein (glycinamide ribonucleotide synthetase); PDBTitle: glycinamide ribonucleotide synthetase (gar-syn) from e.2 coli.
80	c2zdqA_	Alignment	not modelled	98.7	PDB header: ligase Chain: D: PDB Molecule: d-alanine-d-alanine ligase; PDBTitle: crystal structure of d-alanine:d-alanine ligase with atp2 and d-alanine:d-alanine from thermus thermophilus hb8
81	c3tgtB_	Alignment	not modelled	98.7	PDB header: ligase Chain: B: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: structure of the d-alanine-d-alanine ligase from coxiella burnetii
82	c1e4eB_	Alignment	not modelled	98.7	PDB header: ligase Chain: B: PDB Molecule: vancomycin/teicoplanin a-type resistance protein vana; PDBTitle: d-alanyl-d-lactate ligase
83	d1e4ea2	Alignment	not modelled	98.7	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: ATP-binding domain of peptide synthetases
84	c4dimA_	Alignment	not modelled	98.7	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylglycinamide synthetase; PDBTitle: crystal structure of phosphoribosylglycinamide synthetase from2 anaerococcus prevotii
85	c3q2oB_	Alignment	not modelled	98.7	PDB header: lyase Chain: B: PDB Molecule: phosphoribosylaminoimidazole carboxylase, atpase subunit; PDBTitle: crystal structure of purk: n5-carboxyaminoimidazole ribonucleotide2 synthetase
86	c2dwcB_	Alignment	not modelled	98.7	PDB header: transferase Chain: B: PDB Molecule: 433aa long hypothetical phosphoribosylglycinamide formyl transferase from pyrococcus horikoshii ot3 complexed with adp
87	c3orgA_	Alignment	not modelled	98.6	PDB header: ligase,biosynthetic protein Chain: A: PDB Molecule: n5-carboxyaminoimidazole ribonucleotide synthetase; PDBTitle: crystal structure of n5-carboxyaminoimidazole synthetase from2 staphylococcus aureus complexed with adp
88	d2r7ka2	Alignment	not modelled	98.6	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: PurP ATP-binding domain-like
89	d1kjqa3	Alignment	not modelled	98.6	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
90	d2r85a2	Alignment	not modelled	98.6	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: PurP ATP-binding domain-like
91	c5vevB_	Alignment	not modelled	98.6	PDB header: ligase Chain: B: PDB Molecule: phosphoribosylamine--glycine ligase; PDBTitle: crystal structure of phosphoribosylamine-glycine ligase from neisseria2 gonorrhoeae
92	c3se7A_	Alignment	not modelled	98.5	PDB header: ligase Chain: A: PDB Molecule: vana; PDBTitle: ancient vana
93	d1oi7a2	Alignment	not modelled	98.5	Fold: Flavodoxin-like Superfamily: Succinyl-CoA synthetase domains Family: Succinyl-CoA synthetase domains
94	d1gsoa3	Alignment	not modelled	98.5	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
95	c5dotA_	Alignment	not modelled	98.5	PDB header: ligase Chain: A: PDB Molecule: carbamoyl-phosphate synthase [ammonia], mitochondrial; PDBTitle: crystal structure of human carbamoyl phosphate synthetase i (cps1),2 apo form
96	c5i47A_	Alignment	not modelled	98.5	PDB header: biosynthetic protein Chain: A: PDB Molecule: rimk domain protein atp-grasp; PDBTitle: crystal structure of rimk domain protein atp-grasp from sphaerobacter2 thermophilus dsm 20745
97	c5ig8A_	Alignment	not modelled	98.5	PDB header: ligase Chain: A: PDB Molecule: atp grasp ligase; PDBTitle: crystal structure of macrocyclase mdnb from microcystis aeruginosa mrc
98	c5ig9H_	Alignment	not modelled	98.4	PDB header: ligase Chain: H: PDB Molecule: atp grasp ligase; PDBTitle: crystal structure of macrocyclase mdnc bound with precursor peptide2 mdna from microcystis aeruginosa mrc
99	c3etjB_	Alignment	not modelled	98.4	PDB header: lyase Chain: B: PDB Molecule: phosphoribosylaminoimidazole carboxylase atpase PDBTitle: crystal structure e. coli purk in complex with mg, adp, and2 pi
100	c5k2mG_	Alignment	not modelled	98.4	PDB header: biosynthetic protein Chain: G: PDB Molecule: rimk-related lysine biosynthesis protein; PDBTitle: bifunctional lysx/argx from thermococcus kodakarensis with lysw-gamma-2 aaa
101	c6hxid_	Alignment	not modelled	98.4	PDB header: lyase Chain: D: PDB Molecule: succinyl-coa ligase (adp-forming) subunit alpha; PDBTitle: structure of atp citrate lyase from methanothrix soehngenii in complex2 with citrate and coenzyme a
102	c6hxjB_	Alignment	not modelled	98.4	PDB header: lyase Chain: B: PDB Molecule: atp-citrate lyase alpha-subunit; PDBTitle: structure of atp citrate lyase from chlorobium limicola in complex2 with citrate and coenzyme a.

103	c1i7nA_		Alignment	not modelled	98.4	13	PDB header: neuropeptide Chain: A: PDB Molecule: synapsin ii; PDBTitle: crystal structure analysis of the c domain of synapsin ii2 from rat brain
104	c3aw8A_		Alignment	not modelled	98.3	23	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylaminoimidazole carboxylase, atpase subunit; PDBTitle: crystal structure of n5-carboxyaminoimidazole ribonucleotide2 synthetase from thermus thermophilus hb8
105	d1uc8a2		Alignment	not modelled	98.3	13	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: Lysine biosynthesis enzyme LysX ATP-binding domain
106	c3vpbC_		Alignment	not modelled	98.3	13	PDB header: ligase Chain: C: PDB Molecule: putative acetylornithine deacetylase; PDBTitle: argx from sulfolobus tokodaii complexed with2 lysw/glu/adp/mg/zn/sulfate
107	d1euca2		Alignment	not modelled	98.3	23	Fold: Flavodoxin-like Superfamily: Succinyl-CoA synthetase domains Family: Succinyl-CoA synthetase domains
108	c5dmxC_		Alignment	not modelled	98.3	19	PDB header: ligase Chain: C: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: crystal structure of d-alanine-d-alanine ligase from acinetobacter2 baumannii, space group p212121
109	c4qslC_		Alignment	not modelled	98.3	17	PDB header: ligase Chain: C: PDB Molecule: pyruvate carboxylase; PDBTitle: crystal structure of listeria monocytogenes pyruvate carboxylase
110	c3votB_		Alignment	not modelled	98.2	14	PDB header: ligase Chain: B: PDB Molecule: l-amino acid ligase, bl00235; PDBTitle: crystal structure of l-amino acid ligase from bacillus licheniformis
111	c3r23B_		Alignment	not modelled	98.2	14	PDB header: ligase Chain: B: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: crystal structure of d-alanine--d-alanine ligase from bacillus2 anthracis
112	c4eggD_		Alignment	not modelled	98.2	18	PDB header: ligase Chain: D: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: crystal structure of d-alanine-d-alanine ligase b from burkholderia2 pseudomallei
113	c3k5iB_		Alignment	not modelled	98.2	20	PDB header: lyase Chain: B: PDB Molecule: phosphoribosyl-aminoimidazole carboxylase; PDBTitle: crystal structure of n5-carboxyaminoimidazole synthase from2 aspergillus clavatus in complex with adp and 5-aminoimidazole3 ribonucleotide
114	c3k3pA_		Alignment	not modelled	98.2	19	PDB header: ligase Chain: A: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: crystal structure of the apo form of d-alanine:d-alanine ligase (ddi)2 from streptococcus mutans
115	c1oi7A_		Alignment	not modelled	98.1	25	PDB header: synthetase Chain: A: PDB Molecule: succinyl-coa synthetase alpha chain; PDBTitle: the crystal structure of succinyl-coa synthetase alpha2 subunit from thermus thermophilus
116	c2r85B_		Alignment	not modelled	98.1	16	PDB header: unknown function Chain: B: PDB Molecule: purp protein pf1517; PDBTitle: crystal structure of purp from pyrococcus furiosus complexed with amp
117	c3ax6C_		Alignment	not modelled	98.1	20	PDB header: ligase Chain: C: PDB Molecule: phosphoribosylaminoimidazole carboxylase, atpase subunit; PDBTitle: crystal structure of n5-carboxyaminoimidazole ribonucleotide2 synthetase from thermotoga maritima
118	c1z2pX_		Alignment	not modelled	98.1	11	PDB header: transferase Chain: X: PDB Molecule: inositol 1,3,4-trisphosphate 5/6-kinase; PDBTitle: inositol 1,3,4-trisphosphate 5/6-kinase in complex with mg2+/amp-2 pcp/ins(1,3)p3
119	c4iwyA_		Alignment	not modelled	98.0	20	PDB header: ligase Chain: A: PDB Molecule: ribosomal protein s6 modification protein; PDBTitle: semet-substituted rimk structure
120	c3uvzb_		Alignment	not modelled	98.0	16	PDB header: lyase Chain: B: PDB Molecule: phosphoribosylaminoimidazole carboxylase, atpase2 subunit from burkholderia ambifaria