



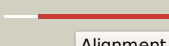






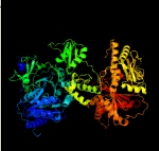

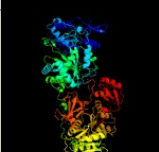










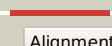

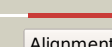

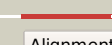











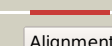

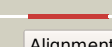
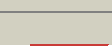
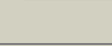
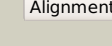
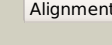


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2379c_(mbtF)_2657710_2662095
Date	Mon Aug 5 13:25:53 BST 2019
Unique Job ID	50daf3b4802d489f

Detailed template information

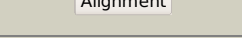
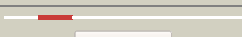
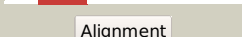





#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2vsqA_	 Alignment		100.0	27	PDB header: ligase Chain: A: PDB Molecule: surfactin synthetase subunit 3; PDBTitle: structure of surfactin a synthetase c (srfa-c), a nonribosomal peptide2 synthetase termination module
2	c6n8eA_	 Alignment		100.0	23	PDB header: hydrolase Chain: A: PDB Molecule: holo-obif1; PDBTitle: crystal structure of holo-obif1, a five domain nonribosomal peptide2 synthetase from burkholderia diffusa
3	c5ja2A_	 Alignment		100.0	26	PDB header: ligase Chain: A: PDB Molecule: enterobactin synthase component f; PDBTitle: entf, a terminal nonribosomal peptide synthetase module bound to the2 non-native mbth-like protein pa2412
4	c4zxiA_	 Alignment		100.0	22	PDB header: biosynthetic protein Chain: A: PDB Molecule: tyrocidine synthetase 3; PDBTitle: crystal structure of holo-ab3403 a four domain nonribosomal peptide2 synthetase bound to amp and glycine
5	c4zxiA_	 Alignment		100.0	26	PDB header: biosynthetic protein Chain: A: PDB Molecule: enterobactin synthase component f; PDBTitle: crystal structure of holo-entf a nonribosomal peptide synthetase in2 the thioester-forming conformation
6	c5u89A_	 Alignment		100.0	27	PDB header: hydrolase/inhibitor Chain: A: PDB Molecule: amino acid adenylation domain protein; PDBTitle: crystal structure of a cross-module fragment from the dimodular nrps2 dhbf
7	c6p1jA_	 Alignment		100.0	32	PDB header: biosynthetic protein Chain: A: PDB Molecule: txo2; PDBTitle: the structure of condensation and adenylation domains of teixobactin-2 producing nonribosomal peptide synthetase txo2 serine module
8	c6ozvA_	 Alignment		100.0	31	PDB header: biosynthetic protein Chain: A: PDB Molecule: txo1; PDBTitle: the structure of condensation and adenylation domains of teixobactin-2 producing nonribosomal peptide synthetase txo1 serine module in3 complex with amp
9	c5es8A_	 Alignment		100.0	28	PDB header: ligase Chain: A: PDB Molecule: linear gramicidin synthetase subunit a; PDBTitle: crystal structure of the initiation module of lgra in the thiolation2 state
10	c6eqoB_	 Alignment		100.0	16	PDB header: oxidoreductase Chain: B: PDB Molecule: acetyl-coenzyme a synthetase; PDBTitle: tri-functional propionyl-coa synthase of erythrobacter sp. nap1 with2 bound nadp+ and phosphomethylphosphonic acid adenylyate ester
11	c5wmmA_	 Alignment		100.0	26	PDB header: biosynthetic protein Chain: A: PDB Molecule: nrps; PDBTitle: crystal structure of an adenylation domain interrupted by a2 methylation domain (ama4) from nonribosomal peptide synthetase tios

12	c5mssA_	 Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: thioester reductase domain-containing protein; PDBTitle: structure of the a-pcp didomain of carboxylic acid reductase (car)2 from segniliparus rugosus in complex with amp
13	c5ifiA_	 Alignment		100.0	17	PDB header: ligase Chain: A: PDB Molecule: acetyl-coenzyme a synthetase; PDBTitle: crystal structure of acetyl-coa synthetase in complex with adenosine-2 5'-propylphosphate from cryptococcus neoformans h99
14	c4dg9A_	 Alignment		100.0	27	PDB header: ligase/inhibitor Chain: A: PDB Molecule: pa1221; PDBTitle: structure of holo-pa1221, an nrps protein containing adenylation and2 pcp domains bound to vinylsulfonamide inhibitor
15	d1pg4a_	 Alignment		100.0	19	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
16	c3rg2H_	 Alignment		100.0	23	PDB header: ligase Chain: H: PDB Molecule: enterobactin synthase component e (ente), 2,3-dihydro-2,3- PDBTitle: structure of a two-domain nrps fusion protein containing the ente2 adenylation domain and entb aryl-carrier protein from enterobactin3 biosynthesis
17	c4wd1A_	 Alignment		100.0	19	PDB header: ligase Chain: A: PDB Molecule: acetoacetate-coa ligase; PDBTitle: acetoacetyl-coa synthetase from streptomyces lividans
18	c5gxdA_	 Alignment		100.0	20	PDB header: lyase Chain: A: PDB Molecule: amp-dependent synthetase and ligase; PDBTitle: structure of acryloyl-coa lyase prpe from dinoroseobacter shibae dfl2 12
19	d1ry2a_	 Alignment		100.0	22	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
20	c4r0mA_	 Alignment		100.0	19	PDB header: ligase Chain: A: PDB Molecule: mcyg protein; PDBTitle: structure of mcyg a-pcp complexed with phenylalanyl-adenylate
21	c5msdA_	 Alignment	not modelled	100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: carboxylic acid reductase; PDBTitle: structure of the a domain of carboxylic acid reductase (car) from2 nocardia iowensis in complex with amp and benzoic acid
22	c3tsyA_	 Alignment	not modelled	100.0	17	PDB header: ligase, transferase Chain: A: PDB Molecule: fusion protein 4-coumarate--coa ligase 1, resveratrol PDBTitle: 4-coumaroyl-coa ligase::stilbene synthase fusion protein
23	c5mstA_	 Alignment	not modelled	100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: thioester reductase domain-containing protein; PDBTitle: structure of the a domain of carboxylic acid reductase (car) from2 segniliparus rugosus in complex with amp and a co-purified carboxylic3 acid
24	c3e7wA_	 Alignment	not modelled	100.0	24	PDB header: ligase Chain: A: PDB Molecule: d-alanine--poly(phosphoribitol) ligase subunit 1; PDBTitle: crystal structure of dlta: implications for the reaction mechanism of2 non-ribosomal peptide synthetase (nrps) adenylation domains
25	c5x8gA_	 Alignment	not modelled	100.0	23	PDB header: ligase Chain: A: PDB Molecule: 2-succinylbenzoate--coa ligase; PDBTitle: binary complex structure of a double mutant i454ra456k of o-2 succinylbenzoate coa synthetase (mene) from bacillus subtilis bound3 with its product analogue osb-ncoa at 1.90 angstrom
26	c3vngA_	 Alignment	not modelled	100.0	32	PDB header: ligase Chain: A: PDB Molecule: nrps adenylation protein cytc1; PDBTitle: co-crystal structure of nrps adenylation protein cytc1 with atp from2 streptomyces
27	d1mdba_	 Alignment	not modelled	100.0	24	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
						Fold: Acetyl-CoA synthetase-like

28	d3cw9a1	Alignment	not modelled	100.0	23	Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
29	c4gr5B_	Alignment	not modelled	100.0	33	PDB header: ligase Chain: B: PDB Molecule: non-ribosomal peptide synthetase; PDBTitle: crystal structure of slgn1deltaasub in complex with ampcpp
30	c4dg8A_	Alignment	not modelled	100.0	28	PDB header: ligase Chain: A: PDB Molecule: pa1221; PDBTitle: structure of pa1221, an nrps protein containing adenylation and pcp2 domains
31	c4wv3A_	Alignment	not modelled	100.0	20	PDB header: ligase/ligase inhibitor Chain: A: PDB Molecule: anthranilate-coa ligase; PDBTitle: crystal structure of the anthranilate coa ligase auaeii in complex2 with anthranoyl-amp
32	c5ey8D_	Alignment	not modelled	100.0	22	PDB header: ligase Chain: D: PDB Molecule: acyl-coa synthase; PDBTitle: structure of fadd32 from mycobacterium smegmatis complexed to ampc20
33	c5ie2A_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: A: PDB Molecule: oxalate--coa ligase; PDBTitle: crystal structure of a plant enzyme
34	c5aplA_	Alignment	not modelled	100.0	30	PDB header: transferase Chain: A: PDB Molecule: adenylation domain; PDBTitle: structure of the adenylation domain thr1 involved in the biosynthesis2 of 4-chlorothreonine in streptomyces sp. oh-5093, apo structure
35	d1amua_	Alignment	not modelled	100.0	27	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
36	c4eatB_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: B: PDB Molecule: benzoate-coenzyme a ligase; PDBTitle: crystal structure of a benzoate coenzyme a ligase
37	c3etcB_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: B: PDB Molecule: amp-binding protein; PDBTitle: 2.1 a structure of acyl-adenylate synthetase from methanosarcina2 acetivorans containing a link between lys256 and cys298
38	c3iteB_	Alignment	not modelled	100.0	27	PDB header: ligase Chain: B: PDB Molecule: sidn siderophore synthetase; PDBTitle: the third adenylation domain of the fungal sidn non-ribosomal peptide2 synthetase
39	c3kxwA_	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A: PDB Molecule: saframycin mx1 synthetase b; PDBTitle: the crystal structure of fatty acid amp ligase from legionella2 pneumophila
40	c3gqwB_	Alignment	not modelled	100.0	21	PDB header: ligase Chain: B: PDB Molecule: fatty acid amp ligase; PDBTitle: crystal structure of a fatty acid amp ligase from e. coli with an acyl2 adenylate product bound
41	c3ni2A_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: A: PDB Molecule: 4-coumarate:coa ligase; PDBTitle: crystal structures and enzymatic mechanisms of a populus tomentosa 4-2 coumarate:coa ligase
42	c1amuB_	Alignment	not modelled	100.0	27	PDB header: peptide synthetase Chain: B: PDB Molecule: gramicidin synthetase 1; PDBTitle: phenylalanine activating domain of gramicidin synthetase 12 in a complex with amp and phenylalanine
43	c5wm7A_	Alignment	not modelled	100.0	27	PDB header: ligase Chain: A: PDB Molecule: salicylate-amp ligase; PDBTitle: crystal structure of cahj in complex with amp
44	c4d56A_	Alignment	not modelled	100.0	34	PDB header: hydrolase Chain: A: PDB Molecule: apnaa1; PDBTitle: understanding bi-specificity of a-domains
45	c3r44A_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: A: PDB Molecule: fatty acyl coa synthetase fadd13 (fatty-acyl-coa PDBTitle: mycobacterium tuberculosis fatty acyl coa synthetase
46	c6h1bA_	Alignment	not modelled	100.0	22	PDB header: ligase Chain: A: PDB Molecule: fatty acid coa ligase; PDBTitle: structure of amide bond synthetase mcba k483a mutant from2 marinactinospora thermotolerans
47	c4oxiA_	Alignment	not modelled	100.0	22	PDB header: ligase Chain: A: PDB Molecule: enterobactin synthetase component f-related protein; PDBTitle: crystal structure of vibrio cholerae adenylation domain alme in2 complex with glycy-adenosine-5'-phosphate
48	c5u2aA_	Alignment	not modelled	100.0	22	PDB header: ligase Chain: A: PDB Molecule: amp-dependent synthetase and ligase; PDBTitle: crystal structure of brucella canis acyl-coa synthetase
49	c4r0mB_	Alignment	not modelled	100.0	17	PDB header: ligase Chain: B: PDB Molecule: mcyg protein; PDBTitle: structure of mcyg a-pcp complexed with phenylalanyl-adenylate
50	c3eynB_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: B: PDB Molecule: acyl-coenzyme a synthetase acsm2a; PDBTitle: crystal structure of human acyl-coa synthetase medium-chain2 family member 2a (l64p mutation) in a complex with coa
51	c5keiA_	Alignment	not modelled	100.0	26	PDB header: ligase Chain: A: PDB Molecule: 2,3-dihydroxybenzoate-amp ligase; PDBTitle: mycobacterium smegmatis mbta apo structure
52	c2v7bB_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: B: PDB Molecule: benzoate-coenzyme a ligase; PDBTitle: crystal structures of a benzoate coa ligase from2 burkholderia xenovorans lb400
53	c4ir7A_	Alignment	not modelled	100.0	22	PDB header: transferase Chain: A: PDB Molecule: long chain fatty acid coa ligase fadd10; PDBTitle: crystal structure of mtb fadd10 in complex with dodecanoyl-amp

54	c5jqB_	Alignment	not modelled	100.0	27	PDB header: ligase Chain: B; PDB Molecule: amp-dependent synthetase and ligase; PDBTitle: crystal structure of idn1l
55	c2d1tA_	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: A; PDB Molecule: luciferin 4-monooxygenase; PDBTitle: crystal structure of the thermostable japanese firefly2 luciferase red-color emission s286n mutant complexed with3 high-energy intermediate analogue
56	c6ijbA_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: A; PDB Molecule: amp-binding domain protein; PDBTitle: structure of 3-methylmercaptopropionate coa ligase mutant k523a in2 complex with amp and mmpa
57	c6ac3B_	Alignment	not modelled	100.0	19	PDB header: luminescent protein Chain: B; PDB Molecule: red-bioluminescence eliciting luciferase; PDBTitle: structure of a natural red emitting luciferase from phrixothrix hirtus2 (p3121 crystal form)
58	c5e7qB_	Alignment	not modelled	100.0	24	PDB header: transferase Chain: B; PDB Molecule: acyl-coa synthetase; PDBTitle: acyl-coa synthetase ptma2 from streptomyces platensis
59	c3l8cA_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: A; PDB Molecule: d-alanine--poly(phosphoribitol) ligase subunit 1; PDBTitle: structure of probable d-alanine--poly(phosphoribitol) ligase subunit-12 from streptococcus pyogenes
60	c5buqA_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: A; PDB Molecule: 2-succinylbenzoate--coa ligase; PDBTitle: unliganded form of o-succinylbenzoate coenzyme a synthetase (mene)2 from bacillus subtilis, solved at 1.98 angstroms
61	c3dhvA_	Alignment	not modelled	100.0	24	PDB header: ligase Chain: A; PDB Molecule: d-alanine-poly(phosphoribitol) ligase; PDBTitle: crystal structure of dlta protein in complex with d-alanine2 adenylate
62	c4fuqD_	Alignment	not modelled	100.0	22	PDB header: ligase Chain: D; PDB Molecule: malonyl coa synthetase; PDBTitle: crystal structure of apo matb from rhodopseudomonas palustris
63	c2jgpA_	Alignment	not modelled	100.0	16	PDB header: ligase Chain: A; PDB Molecule: tyrocidine synthetase 3; PDBTitle: structure of the tycc5-6 pcp-c bidomain of the tyrocidine synthetase2 tycc
64	c6akdA_	Alignment	not modelled	100.0	29	PDB header: ligase Chain: A; PDB Molecule: amp-dependent synthetase and ligase; PDBTitle: crystal structure of idn17
65	c3ip1B_	Alignment	not modelled	100.0	22	PDB header: ligase Chain: B; PDB Molecule: 2-succinylbenzoate--coa ligase; PDBTitle: crystal structure of o-succinylbenzoic acid-coa ligase from2 staphylococcus aureus subsp. aureus mu50
66	d1v25a_	Alignment	not modelled	100.0	27	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
67	c3nyrA_	Alignment	not modelled	100.0	26	PDB header: ligase Chain: A; PDB Molecule: malonyl-coa ligase; PDBTitle: malonyl-coa ligase ternary product complex with malonyl-coa and amp2 bound
68	c3g7sA_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: A; PDB Molecule: long-chain-fatty-acid--coa ligase (fadd-1); PDBTitle: crystal structure of a long-chain-fatty-acid-coa ligase2 (fadd1) from archaeoglobus fulgidus
69	d1l1cia_	Alignment	not modelled	100.0	18	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
70	c5c5hA_	Alignment	not modelled	100.0	21	PDB header: ligase Chain: A; PDB Molecule: 2-succinylbenzoate--coa ligase; PDBTitle: r195k e. coli mene with bound osb-ams
71	c5t81A_	Alignment	not modelled	100.0	18	PDB header: biosynthetic protein Chain: A; PDB Molecule: epob; PDBTitle: rhombohedral crystal form of the epob nrps cyclization-docking2 bidomain from sorangium cellulosum
72	c4tx3B_	Alignment	not modelled	100.0	24	PDB header: oxidoreductase Chain: B; PDB Molecule: peptide synthetase, module 7; PDBTitle: complex of the x-domain and oxyb from teicoplanin biosynthesis
73	c5ijpB_	Alignment	not modelled	100.0	27	PDB header: ligase Chain: B; PDB Molecule: nonribosomal peptide synthase; PDBTitle: crystal structure of cmis6
74	c6cgoB_	Alignment	not modelled	100.0	16	PDB header: biosynthetic protein Chain: B; PDB Molecule: condensation domain protein; PDBTitle: molecular basis for condensation domain-mediated chain release from2 the enacyloxin polyketide synthase
75	c4jn3B_	Alignment	not modelled	100.0	21	PDB header: biosynthetic protein Chain: B; PDB Molecule: cda peptide synthetase i; PDBTitle: crystal structures of the first condensation domain of the cda2 synthetase
76	c6ad3A_	Alignment	not modelled	100.0	16	PDB header: biosynthetic protein Chain: A; PDB Molecule: lovastatin nonaketide synthase moka; PDBTitle: structural characterization of the condensation domain from monacolin2 k polyketide synthase moka
77	c5t3eA_	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A; PDB Molecule: bacillamide synthetase heterocyclization domain; PDBTitle: crystal structure of a nonribosomal peptide synthetase2 heterocyclization domain.
78	c4znmB_	Alignment	not modelled	100.0	18	PDB header: ligase Chain: B; PDB Molecule: c-domain type ii peptide synthetase; PDBTitle: crystal structure of sgcc5 protein from streptomyces globisporus (apo2 form)
79	c5n81B_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: B; PDB Molecule: tyrocidine synthase 1;

79	c1b1B_	Alignment	not modelled	100.0	30	PDBTitle: crystal structure of an engineered tyca variant in complex with an o-2 propargyl-beta-tyr-amp analog PDB header: ligase
80	c3o82B_	Alignment	not modelled	100.0	23	Chain: B; PDB Molecule: peptide arylation enzyme; PDBTitle: structure of base n-terminal domain from acinetobacter baumannii bound2 to 5'-o-[n-(2,3-dihydroxybenzoyl)sulfamoyl] adenosine
81	c4w8oA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A; PDB Molecule: luciferase-like enzymeamp-coa-ligase; PDBTitle: structure of the luciferase-like enzyme from the nonluminescent2 zophobas morio mealworm
82	c4lqcA_	Alignment	not modelled	100.0	16	PDB header: ligase Chain: A; PDB Molecule: bile acid-coenzyme a ligase; PDBTitle: crystal structure of a bile acid-coenzyme a ligase (baib) from2 clostridium scindens (vpi 12708) at 2.19 a resolution
83	c6m7lB_	Alignment	not modelled	100.0	22	PDB header: biosynthetic protein Chain: B; PDB Molecule: putative non-ribosomal peptide synthetase; PDBTitle: complex of oxya with the x-domain from gpa biosynthesis
84	c2xhgA_	Alignment	not modelled	100.0	15	PDB header: isomerase Chain: A; PDB Molecule: tyrocidine synthetase a; PDBTitle: crystal structure of the epimerization domain from the initiation2 module of tyrocidine biosynthesis
85	c3o82A_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: A; PDB Molecule: peptide arylation enzyme; PDBTitle: structure of base n-terminal domain from acinetobacter baumannii bound2 to 5'-o-[n-(2,3-dihydroxybenzoyl)sulfamoyl] adenosine
86	c3wv4B_	Alignment	not modelled	100.0	26	PDB header: ligase Chain: B; PDB Molecule: non-ribosomal peptide synthetase; PDBTitle: crystal structure of vinn
87	c6aefB_	Alignment	not modelled	100.0	16	PDB header: transferase Chain: B; PDB Molecule: polyketide synthase associated protein papa2; PDBTitle: papa2 acyl transferase
88	c5m6pB_	Alignment	not modelled	100.0	17	PDB header: isomerase Chain: B; PDB Molecule: tyrocidine synthase 2; PDBTitle: crystal structure of the epimerization domain from module 3 of2 tyrocidine synthetase b, tycb3(e)
89	c5burB_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: B; PDB Molecule: 2-succinylbenzoate--coa ligase; PDBTitle: o-succinylbenzoate coenzyme a synthetase (mene) from bacillus2 subtilis, in complex with atp and magnesium ion
90	c1l5aA_	Alignment	not modelled	100.0	17	PDB header: biosynthetic protein Chain: A; PDB Molecule: amide synthase; PDBTitle: crystal structure of vibh, an nrps condensation enzyme
91	c3qyaA_	Alignment	not modelled	100.0	18	PDB header: oxidoreductase Chain: A; PDB Molecule: luciferase; PDBTitle: crystal structure of a red-emitter mutant of lampyris turkestanicus2 luciferase
92	c5dijA_	Alignment	not modelled	100.0	20	PDB header: unknown function Chain: A; PDB Molecule: tqaa; PDBTitle: the crystal structure of ct
93	c3ivrA_	Alignment	not modelled	100.0	24	PDB header: ligase Chain: A; PDB Molecule: putative long-chain-fatty-acid coa ligase; PDBTitle: crystal structure of putative long-chain-fatty-acid coa ligase from2 rhodospseudomonas palustris cga009
94	c5oe3C_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: C; PDB Molecule: anthranilate--coa ligase; PDBTitle: crystal structure of the n-terminal domain of pqsa in complex with2 anthraniloyl-amp (crystal form 1)
95	c3e53A_	Alignment	not modelled	100.0	21	PDB header: ligase Chain: A; PDB Molecule: fatty-acid-coa ligase fadd28; PDBTitle: crystal structure of n-terminal domain of a fatty acyl amp2 ligase faal28 from mycobacterium tuberculosis
96	c3t5cA_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: A; PDB Molecule: probable chain-fatty-acid-coa ligase fadd13; PDBTitle: crystal structure of n-terminal domain of fac113 from mycobacterium2 tuberculosis in different space group c2
97	c5jipC_	Alignment	not modelled	100.0	28	PDB header: ligase Chain: C; PDB Molecule: nonribosomal peptide synthase; PDBTitle: crystal structure of cmis6
98	c4hvmC_	Alignment	not modelled	100.0	18	PDB header: biosynthetic protein Chain: C; PDB Molecule: tlmii; PDBTitle: crystal structure of tallysomycin biosynthesis protein tlmii
99	c6abhG_	Alignment	not modelled	100.0	19	PDB header: luminescent protein Chain: G; PDB Molecule: red-bioluminescence eliciting luciferase; PDBTitle: structure of a natural red emitting luciferase from phrixothrix hirtus2 (p1 crystal form)
100	c4gs5A_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: A; PDB Molecule: acyl-coa synthetase (amp-forming)/amp-acid ligase ii-like PDBTitle: the crystal structure of acyl-coa synthetase (amp-forming)/amp-acid2 ligase ii-like protein from dyadobacter fermentans dsm 18053
101	c2y4oA_	Alignment	not modelled	100.0	21	PDB header: ligase Chain: A; PDB Molecule: phenylacetate-coenzyme a ligase; PDBTitle: crystal structure of paak2 in complex with phenylacetyl adenylate
102	c2y27B_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: B; PDB Molecule: phenylacetate-coenzyme a ligase; PDBTitle: crystal structure of paak1 in complex with atp from burkholderia2 cenocepacia
103	c3qovD_	Alignment	not modelled	100.0	16	PDB header: ligase Chain: D; PDB Molecule: phenylacetate-coenzyme a ligase; PDBTitle: crystal structure of a hypothetical acyl-coa ligase (bt_0428) from2 bacteroides thetaiotaomicron vpi-5482 at 2.20 a resolution

104	c3fotA	 Alignment	not modelled	100.0	13	PDB header: transferase Chain: A: PDB Molecule: 15-o-acetyltransferase; PDBTitle: structural and functional characterization of tri3 trichothecene 15-o-2 acetyltransferase from fusarium sporotrichioides
105	c1q9jA	 Alignment	not modelled	100.0	15	PDB header: ligase Chain: A: PDB Molecule: polyketide synthase associated protein 5; PDBTitle: structure of polyketide synthase associated protein 5 from2 mycobacterium tuberculosis
106	c6chjB	 Alignment	not modelled	100.0	13	PDB header: transferase Chain: B: PDB Molecule: diacylglycerol o-acyltransferase; PDBTitle: wax ester synthase/diacylglycerol acyltransferase from marinobacter2 aquaeolei vt8
107	d1l5aa1	 Alignment	not modelled	100.0	21	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: NRPS condensation domain (amide synthase)
108	c3hguB	 Alignment	not modelled	100.0	19	PDB header: biosynthetic protein Chain: B: PDB Molecule: ehpf; PDBTitle: structure of phenazine antibiotic biosynthesis protein
109	d1l5aa2	 Alignment	not modelled	100.0	14	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: NRPS condensation domain (amide synthase)
110	c6dd2A	 Alignment	not modelled	99.9	14	PDB header: transferase Chain: A: PDB Molecule: probable hydroxycinnamoyl transferase; PDBTitle: crystal structure of selaginella moellendorffii hct
111	d1q9ja1	 Alignment	not modelled	99.9	19	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: NRPS condensation domain (amide synthase)
112	c4g0bA	 Alignment	not modelled	99.9	13	PDB header: transferase Chain: A: PDB Molecule: hydroxycinnamoyl-coa shikimate/quinat PDBTitle: structure of native hct from coffea canephora
113	d1q9ja2	 Alignment	not modelled	99.8	10	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: NRPS condensation domain (amide synthase)
114	c2e1uA	 Alignment	not modelled	99.8	13	PDB header: transferase Chain: A: PDB Molecule: acyl transferase; PDBTitle: crystal structure of dendranthema morifolium dmat
115	c2bghA	 Alignment	not modelled	99.8	11	PDB header: transferase Chain: A: PDB Molecule: vinorine synthase; PDBTitle: crystal structure of vinorine synthase
116	c5u3hA	 Alignment	not modelled	99.8	21	PDB header: ligase Chain: A: PDB Molecule: hmwp2 nonribosomal peptide synthetase; PDBTitle: solution structure of apo pcp1 from yersiniabactin synthetase
117	c5msvB	 Alignment	not modelled	99.7	19	PDB header: oxidoreductase Chain: B: PDB Molecule: thioester reductase domain-containing protein; PDBTitle: structure of the phosphopantetheine modified pcp-r didomain of2 carboxylic acid reductase (car) in complex with nadp
118	c2roqA	 Alignment	not modelled	99.7	17	PDB header: transferase Chain: A: PDB Molecule: enterobactin synthetase component f; PDBTitle: solution structure of the thiolation-thioesterase di-domain2 of enterobactin synthetase component f
119	c2xr7A	 Alignment	not modelled	99.6	16	PDB header: transferase Chain: A: PDB Molecule: malonyltransferase; PDBTitle: crystal structure of nicotiana tabacum malonyltransferase (ntmat1)2 complexed with malonyl-coa
120	c2cq8A	 Alignment	not modelled	99.6	10	PDB header: oxidoreductase Chain: A: PDB Molecule: 10-formyltetrahydrofolate dehydrogenase; PDBTitle: solution structure of rsgi ruh-033, a pp-binding domain of2 10-ftthdh from human cdna