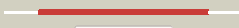























#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2y4oA_	 Alignment		100.0	67	PDB header: ligase Chain: A: PDB Molecule: phenylacetate-coenzyme a ligase; PDBTitle: crystal structure of paak2 in complex with phenylacetyl adenylate
2	c2y27B_	 Alignment		100.0	63	PDB header: ligase Chain: B: PDB Molecule: phenylacetate-coenzyme a ligase; PDBTitle: crystal structure of paak1 in complex with atp from2 burkholderia cenocepacia
3	c3qovD_	 Alignment		100.0	41	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
4	d1pg4a_	 Alignment		100.0	20	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
5	c2vsqA_	 Alignment		100.0	19	PDB header: ligase Chain: A: PDB Molecule: surfactin synthetase subunit 3; PDBTitle: structure of surfactin a synthetase c (srfa-c), a2 nonribosomal peptide synthetase termination module
6	d1ry2a_	 Alignment		100.0	19	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
7	c3hguB_	 Alignment		100.0	19	PDB header: biosynthetic protein Chain: B: PDB Molecule: ehpf; PDBTitle: structure of phenazine antibiotic biosynthesis protein
8	c3tsyA_	 Alignment		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
9	d3cw9a1	 Alignment		100.0	18	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
10	c3e7wA_	 Alignment		100.0	12	PDB header: ligase Chain: A: PDB Molecule: d-alanine--poly(phosphoribitol) ligase subunit 1; PDBTitle: crystal structure of dlta: implications for the reaction2 mechanism of non-ribosomal peptide synthetase (nrps)3 adenylation domains
11	c3gqwB_	 Alignment		100.0	18	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

12	d1mdba_	Alignment		100.0	16	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
13	c3etcB_	Alignment		100.0	16	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
14	c3ni2A_	Alignment		100.0	17	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
15	c3kxwA_	Alignment		100.0	13	PDB header: ligase Chain: A: PDB Molecule: saframycin mx1 synthetase b; PDBTitle: the crystal structure of fatty acid amp ligase from legionella2 pneumophila
16	c3iteB_	Alignment		100.0	15	PDB header: ligase Chain: B: PDB Molecule: sidn siderophore synthetase; PDBTitle: the third adenylation domain of the fungal sidn non-2 ribosomal peptide synthetase
17	c3eynB_	Alignment		100.0	15	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
18	c3nyrA_	Alignment		100.0	13	PDB header: ligase Chain: A: PDB Molecule: malonyl-coa ligase; PDBTitle: malonyl-coa ligase ternary product complex with malonyl-coa and amp2 bound
19	c2d1tA_	Alignment		100.0	17	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
20	c2v7bB_	Alignment		100.0	20	PDB header: ligase Chain: B: PDB Molecule: benzoate-coenzyme a ligase; PDBTitle: crystal structures of a benzoate coa ligase from2 burkholderia xenovorans lb400
21	c3iplB_	Alignment	not modelled	100.0	19	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
22	d1v25a_	Alignment	not modelled	100.0	18	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
23	c3g7sA_	Alignment	not modelled	100.0	19	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
24	c3dhvA_	Alignment	not modelled	100.0	16	PDB header: ligase Chain: A: PDB Molecule: d-alanine-poly(phosphoribitol) ligase; PDBTitle: crystal structure of dlta protein in complex with d-alanine2 adenylate
25	d1lcia_	Alignment	not modelled	100.0	13	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
26	c1amuB_	Alignment	not modelled	100.0	15	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
27	d1amua_	Alignment	not modelled	100.0	16	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
28	c3l8cA_	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A: PDB Molecule: d-alanine--poly(phosphoribitol) ligase subunit 1; PDBTitle: structure of probable d-alanine--poly(phosphoribitol)

						ligase2 subunit-1 from streptococcus pyogenes PDB header: ligase 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
29	c3o82B_	Alignment	not modelled	99.9	18	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 rhodopseudomonas palustris cga009
30	c3ivrA_	Alignment	not modelled	99.9	13	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
31	c3e53A_	Alignment	not modelled	99.9	14	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
32	c3o82A_	Alignment	not modelled	99.8	18	PDB header: ligase Chain: A: PDB Molecule: phenylacetate-coenzyme a ligase; PDBTitle: the crystal structure of a domain of phenylacetate-coenzyme2 a ligase from bacteroides vulgatus atcc 8482
33	c3laxA_	Alignment	not modelled	99.6	28	PDB header: hydrolase Chain: A: PDB Molecule: hyaluronidase-phage associated; PDBTitle: the partial structure of a group a streptococcal phage-2 encoded tail fibre hyaluronate lyase hylp2
34	c2wh7A_	Alignment	not modelled	34.7	44	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Polynucleotide phosphorylase/guanosine pentaphosphate synthase (PNPase/GPSI), domain 3 Family: Polynucleotide phosphorylase/guanosine pentaphosphate synthase (PNPase/GPSI), domain 3
35	d1whua_	Alignment	not modelled	34.0	27	PDB header: transferase Chain: D: PDB Molecule: methyltransferase 1; PDBTitle: crystal structure of methanol:cobalamin methyltransferase complex2 mtabc from methanosarcina barkeri
36	c2i2xD_	Alignment	not modelled	29.9	11	Fold: Flavodoxin-like Superfamily: Cobalamin (vitamin B12)-binding domain Family: Cobalamin (vitamin B12)-binding domain
37	d3bula2	Alignment	not modelled	29.2	11	Fold: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain Superfamily: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain Family: Uridine diphospho-N-Acetylenolpyruvylglucosamine reductase, MurB, C-terminal domain
38	d1hska2	Alignment	not modelled	29.1	18	Fold: SAM domain-like Superfamily: SAM/Pointed domain Family: SAM (sterile alpha motif) domain
39	d1pk1c1	Alignment	not modelled	27.0	21	Fold: SAM domain-like Superfamily: SAM/Pointed domain Family: SAM (sterile alpha motif) domain
40	d1wwva1	Alignment	not modelled	23.6	15	Fold: SAM domain-like Superfamily: SAM/Pointed domain Family: SAM (sterile alpha motif) domain
41	c2c3fA_	Alignment	not modelled	19.1	44	PDB header: lyase Chain: A: PDB Molecule: hyaluronidase, phage associated; PDBTitle: the structure of a group a streptococcal phage-encoded2 tail-fibre showing hyaluronan lyase activity.
42	d2c3fa1	Alignment	not modelled	19.1	44	Fold: Triple-stranded beta-helix Superfamily: Phage fibre proteins Family: HylP-like
43	c1bmtB_	Alignment	not modelled	16.1	13	PDB header: methyltransferase Chain: B: PDB Molecule: methionine synthase; PDBTitle: how a protein binds b12: a 3.0 angstrom x-ray structure of2 the b12-binding domains of methionine synthase
44	d1dpta_	Alignment	not modelled	15.1	6	Fold: Tautomerase/MIF Superfamily: Tautomerase/MIF Family: MIF-related
45	c1pk1A_	Alignment	not modelled	14.5	28	PDB header: transcription repression Chain: A: PDB Molecule: polyhomeotic-proximal chromatin protein; PDBTitle: hetero sam domain structure of ph and scm.
46	c2ormA_	Alignment	not modelled	14.4	11	PDB header: isomerase Chain: A: PDB Molecule: probable tautomerase hp0924; PDBTitle: crystal structure of the 4-oxalocrotonate tautomerase homologue dmpi2 from helicobacter pylori.
47	d2o70a1	Alignment	not modelled	13.8	13	Fold: UraD-like Superfamily: UraD-Like Family: UraD-like
48	c3ry0A_	Alignment	not modelled	13.7	14	PDB header: isomerase Chain: A: PDB Molecule: putative tautomerase; PDBTitle: crystal structure of tomm, a 4-oxalocrotonate tautomerase homologue in2 tomaymycin biosynthetic pathway
49	d1bjpa_	Alignment	not modelled	13.3	10	Fold: Tautomerase/MIF Superfamily: Tautomerase/MIF Family: 4-oxalocrotonate tautomerase-like
50	c3ezxA_	Alignment	not modelled	12.5	12	PDB header: transferase Chain: A: PDB Molecule: monomethylamine corrinoid protein 1; PDBTitle: structure of methanosarcina barkeri monomethylamine2 corrinoid protein
51	d1otfa_	Alignment	not modelled	12.5	16	Fold: Tautomerase/MIF Superfamily: Tautomerase/MIF Family: 4-oxalocrotonate tautomerase-like
52	c3kk1B_	Alignment	not modelled	11.6	12	PDB header: transferase/dna Chain: B: PDB Molecule: reverse transcriptase p51 subunit; PDBTitle: hiv-1 reverse transcriptase-dna complex with nucetotide inhibitor gs-2 9148-diphosphate bound in nucleotide site
53	c3ebrA_	Alignment	not modelled	11.5	19	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized rmlc-like cupin; PDBTitle: crystal structure of an rmlc-like cupin protein

					(reut_a0381) from2 ralstonia eutropha jmp134 at 2.60 a resolution
54	c1hskA_	Alignment	not modelled	11.2	18 PDB header: oxidoreductase Chain: A: PDB Molecule: udp-n-acetylenolpyruvoylglucosamine reductase; PDBTitle: crystal structure of s. aureus murb
55	c3abfB_	Alignment	not modelled	11.1	18 PDB header: isomerase Chain: B: PDB Molecule: 4-oxalocrotonate tautomerase; PDBTitle: crystal structure of a 4-oxalocrotonate tautomerase homologue2 (tthb242)
56	c2op8A_	Alignment	not modelled	11.0	22 PDB header: isomerase Chain: A: PDB Molecule: probable tautomerase ywhb; PDBTitle: crystal structure of ywhb- homologue of 4-oxalocrotonate tautomerase
57	c2x4kB_	Alignment	not modelled	10.5	16 PDB header: isomerase Chain: B: PDB Molecule: 4-oxalocrotonate tautomerase; PDBTitle: crystal structure of sar1376, a putative 4-oxalocrotonate2 tautomerase from the methicillin-resistant staphylococcus3 aureus (mrsa)
58	d1kw4a_	Alignment	not modelled	10.2	22 Fold: SAM domain-like Superfamily: SAM/Pointed domain Family: SAM (sterile alpha motif) domain
59	d1iwga3	Alignment	not modelled	10.0	8 Fold: Ferredoxin-like Superfamily: Multidrug efflux transporter AcrB pore domain; PN1, PN2, PC1 and PC2 subdomains Family: Multidrug efflux transporter AcrB pore domain; PN1, PN2, PC1 and PC2 subdomains
60	d1h80a_	Alignment	not modelled	10.0	31 Fold: Single-stranded right-handed beta-helix Superfamily: Pectin lyase-like Family: iota-carrageenase
61	d2zd1b1	Alignment	not modelled	9.3	12 Fold: DNA/RNA polymerases Superfamily: DNA/RNA polymerases Family: Reverse transcriptase
62	c1rthA_	Alignment	not modelled	8.6	12 PDB header: nucleotidyltransferase Chain: A: PDB Molecule: hiv-1 reverse transcriptase; PDBTitle: high resolution structures of hiv-1 rt from four rt-2 inhibitor complexes
63	d1ucra_	Alignment	not modelled	8.3	57 Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Dissimilatory sulfite reductase DsvD
64	d2qfia1	Alignment	not modelled	8.3	13 Fold: Alpha-lytic protease prodomain-like Superfamily: Cation efflux protein cytoplasmic domain-like Family: Cation efflux protein cytoplasmic domain-like
65	c1y80A_	Alignment	not modelled	8.1	17 PDB header: structural genomics, unknown function Chain: A: PDB Molecule: predicted cobalamin binding protein; PDBTitle: structure of a corrinoid (factor iiii)-binding protein from2 moorella thermoacetica
66	c1x4rA_	Alignment	not modelled	7.9	71 PDB header: apoptosis Chain: A: PDB Molecule: parp14 protein; PDBTitle: solution structure of wwe domain in parp14 protein
67	c3mb2G_	Alignment	not modelled	7.7	12 PDB header: isomerase Chain: G: PDB Molecule: 4-oxalocrotonate tautomerase family enzyme - alpha subunit; PDBTitle: kinetic and structural characterization of a heterohexamer 4-2 oxalocrotonate tautomerase from chloroflexus aurantiacus j-10-fl:3 implications for functional and structural diversity in the4 tautomerase superfamily
68	c2pmzV_	Alignment	not modelled	7.6	22 PDB header: translation, transferase Chain: V: PDB Molecule: dna-directed rna polymerase subunit h; PDBTitle: archaeal rna polymerase from sulfolobus solfataricus
69	d2icwg1	Alignment	not modelled	7.5	31 Fold: Superantigen MAM Superfamily: Superantigen MAM Family: Superantigen MAM
70	c2do9A_	Alignment	not modelled	6.6	27 PDB header: signaling protein Chain: A: PDB Molecule: nacht-, lrr- and pyd-containing protein 10; PDBTitle: solution structure of the pyrin/paad-dapin domain in mouse2 nalp10 (nacht, leucine rich repeat and pyd containing 10)
71	c2pjka_	Alignment	not modelled	6.4	14 PDB header: structural genomics, unknown function Chain: A: PDB Molecule: 178aa long hypothetical molybdenum cofactor PDBTitle: structure of hypothetical molybdenum cofactor biosynthesis2 protein b from sulfolobus tokodaii
72	c2bcmB_	Alignment	not modelled	6.2	43 PDB header: cell adhesion Chain: B: PDB Molecule: f1845 fimbrial protein; PDBTitle: daae adhesin
73	c2epbA_	Alignment	not modelled	6.2	63 PDB header: transcription Chain: A: PDB Molecule: chromodomain-helicase-dna-binding protein 6; PDBTitle: solution structure of chromo domain 2 in chromodomain-2 helicase-dna-binding protein 6
74	d1uhra_	Alignment	not modelled	6.2	36 Fold: SWIB/MDM2 domain Superfamily: SWIB/MDM2 domain Family: SWIB/MDM2 domain
75	c2qfiB_	Alignment	not modelled	6.2	14 PDB header: transport protein Chain: B: PDB Molecule: ferrous-iron efflux pump fief; PDBTitle: structure of the zinc transporter yiiip
76	c3idwA_	Alignment	not modelled	6.1	18 PDB header: endocytosis Chain: A: PDB Molecule: actin cytoskeleton-regulatory complex protein sla1; PDBTitle: crystal structure of sla1 homology domain 2
77	d2edua1	Alignment	not modelled	6.1	22 Fold: SAM domain-like Superfamily: RuvA domain 2-like Family: ComEA-like
					Fold: Tautomerase/MIF

78	d1mwwa_	Alignment	not modelled	6.0	11	Superfamily: Tautomerase/MIF Family: Hypothetical protein HI1388.1
79	c2zztA_	Alignment	not modelled	6.0	8	PDB header: transport protein Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of the cytosolic domain of the cation2 diffusion facilitator family protein
80	c1pk1B_	Alignment	not modelled	6.0	15	PDB header: transcription repression Chain: B: PDB Molecule: sex comb on midleg cg9495-pa; PDBTitle: hetero sam domain structure of ph and scm.
81	d2f3na1	Alignment	not modelled	6.0	12	Fold: SAM domain-like Superfamily: SAM/Pointed domain Family: SAM (sterile alpha motif) domain
82	c1k98A_	Alignment	not modelled	5.9	13	PDB header: transferase Chain: A: PDB Molecule: methionine synthase; PDBTitle: adomet complex of meth c-terminal fragment
83	d1gyxa_	Alignment	not modelled	5.9	6	Fold: Tautomerase/MIF Superfamily: Tautomerase/MIF Family: 4-oxalocrotonate tautomerase-like
84	c2fvnA_	Alignment	not modelled	5.8	36	PDB header: cell adhesion Chain: A: PDB Molecule: protein afad; PDBTitle: the fibrillar tip complex of the afa/dr adhesins from2 pathogen e. coli displays synergistic binding to 5 1 and v3 3 integrins
85	c3bs7A_	Alignment	not modelled	5.6	15	PDB header: signaling protein Chain: A: PDB Molecule: protein aveugle; PDBTitle: crystal structure of the sterile alpha motif (sam) domain2 of hyphen/aveugle
86	d2aala1	Alignment	not modelled	5.6	26	Fold: Tautomerase/MIF Superfamily: Tautomerase/MIF Family: MSAD-like
87	c3bs5A_	Alignment	not modelled	5.6	15	PDB header: signaling protein/membrane protein Chain: A: PDB Molecule: protein aveugle; PDBTitle: crystal structure of hcnk2-sam/dhyp-sam complex
88	c2dn5A_	Alignment	not modelled	5.4	45	PDB header: transcription Chain: A: PDB Molecule: general transcription factor ii-i repeat domain- PDBTitle: solution structure of rsgi ruh-057, a gtf2i domain in human2 cdna
89	c3cmqA_	Alignment	not modelled	5.1	10	PDB header: ligase Chain: A: PDB Molecule: phenylalanyl-trna synthetase, mitochondrial; PDBTitle: crystal structure of human mitochondrial phenylalanine trna2 synthetase
90	d1f06a2	Alignment	not modelled	5.1	9	Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: Dihydrodipicolinate reductase-like
91	d7reqa2	Alignment	not modelled	5.0	14	Fold: Flavodoxin-like Superfamily: Cobalamin (vitamin B12)-binding domain Family: Cobalamin (vitamin B12)-binding domain