







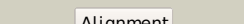

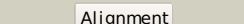

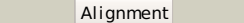

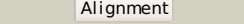

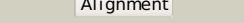

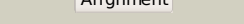

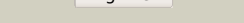





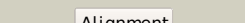

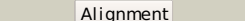

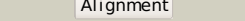

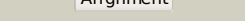

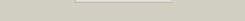




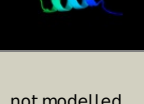

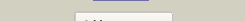


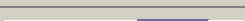
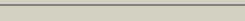

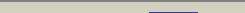


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2gqsA_	 Alignment		100.0	100	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylaminoimidazole-succinocarboxamide PDBTitle: saicar synthetase complexed with cair-mg2+ and adp
2	c2z02A_	 Alignment		100.0	43	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylaminoimidazole-succinocarboxamide PDBTitle: crystal structure of2 phosphoribosylaminoimidazolesuccinocarboxamide synthase3 wit atp from methanocaldococcus jannaschii
3	c3kreA_	 Alignment		100.0	41	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylaminoimidazole-succinocarboxamide synthase; PDBTitle: crystal structure of phosphoribosylaminoimidazole-succinocarboxamide2 synthase from ehrlichia chaffeensis at 1.8a resolution
4	c3nuaB_	 Alignment		100.0	42	PDB header: ligase Chain: B: PDB Molecule: phosphoribosylaminoimidazole-succinocarboxamide synthase; PDBTitle: crystal structure of phosphoribosylaminoimidazole-succinocarboxamide2 synthase from clostridium perfringens
5	c2yvvB_	 Alignment		100.0	44	PDB header: ligase Chain: B: PDB Molecule: phosphoribosylaminoimidazole succinocarboxamide synthetase; PDBTitle: crystal structure of saicar synthetase from geobacillus kaustophilus
6	d2cnqa1	 Alignment		100.0	30	Fold: SAICAR synthase-like Superfamily: SAICAR synthase-like Family: SAICAR synthase
7	c3r9rA_	 Alignment		100.0	30	PDB header: ligase Chain: A: PDB Molecule: phosphoribosylaminoimidazole-succinocarboxamide synthase; PDBTitle: structure of a phosphoribosylaminoimidazole-succinocarboxamide2 synthase from mycobacterium abscessus atcc 19977 / dsm 44196
8	d1kuta_	 Alignment		100.0	39	Fold: SAICAR synthase-like Superfamily: SAICAR synthase-like Family: SAICAR synthase
9	c2h31A_	 Alignment		100.0	32	PDB header: ligase, lyase Chain: A: PDB Molecule: multifunctional protein ade2; PDBTitle: crystal structure of human paics, a bifunctional carboxylase and2 synthetase in purine biosynthesis
10	c1zp9A_	 Alignment		57.1	14	PDB header: transferase Chain: A: PDB Molecule: rio1 kinase; PDBTitle: crystal structure of full-legnth a.fulgidus rio1 serine kinase bound2 to atp and mn2+ ions.
11	d2h3ka1	 Alignment		36.5	14	Fold: Immunoglobulin-like beta-sandwich Superfamily: NEAT domain-like Family: NEAT domain

12	c3nj2B_		Alignment		33.8	16	PDB header: unknown function Chain: B; PDB Molecule: duf269-containing protein; PDBTitle: crystal structure of cce_0566 from the cyanobacterium cyanothece2 51142, a protein associated with nitrogen fixation from the duf2693 family
13	d1kjq3		Alignment		19.8	34	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: BC ATP-binding domain-like
14	d2a52a1		Alignment		18.7	12	Fold: Concanavalin A-like lectins/glucanases Superfamily: Concanavalin A-like lectins/glucanases Family: SO2946-like
15	d1i4ya_		Alignment		18.4	9	Fold: Four-helical up-and-down bundle Superfamily: Hemerythrin-like Family: Hemerythrin-like
16	c3g7pA_		Alignment		17.5	18	PDB header: unknown function Chain: A; PDB Molecule: nitrogen fixation protein; PDBTitle: crystal structure of a nifx-associated protein of unknown function2 (afe_1514) from acidithiobacillus ferrooxidans atcc at 2.00 a3 resolution
17	c2pvpB_		Alignment		16.8	34	PDB header: ligase Chain: B; PDB Molecule: d-alanine-d-alanine ligase; PDBTitle: crystal structure of d-alanine-d-alanine ligase from helicobacter2 pylori
18	d1pmia_		Alignment		15.3	15	Fold: Double-stranded beta-helix Superfamily: RmlC-like cupins Family: Type I phosphomannose isomerase
19	c3lzcA_		Alignment		14.1	15	PDB header: biosynthetic protein Chain: A; PDB Molecule: dph2; PDBTitle: crystal structure of dph2 from pyrococcus horikoshii
20	c2auwB_		Alignment		12.7	23	PDB header: unknown function Chain: B; PDB Molecule: hypothetical protein ne0471; PDBTitle: crystal structure of putative dna binding protein ne0471 from2 nitrosomonas europaea atcc 19718
21	c3h1yA_		Alignment	not modelled	11.7	35	PDB header: isomerase Chain: A; PDB Molecule: mannose-6-phosphate isomerase; PDBTitle: crystal structure of mannose 6-phosphate isomerase from2 salmonella typhimurium bound to substrate (f6p)and metal3 atom (zn)
22	d1hrba_		Alignment	not modelled	11.4	9	Fold: Four-helical up-and-down bundle Superfamily: Hemerythrin-like Family: Hemerythrin-like
23	c3cegA_		Alignment	not modelled	11.0	13	PDB header: ligase Chain: A; PDB Molecule: baculoviral iap repeat-containing protein 6; PDBTitle: crystal structure of the ubc domain of baculoviral iap2 repeat-containing protein 6
24	c3eplA_		Alignment	not modelled	10.6	24	PDB header: transferase/rna Chain: A; PDB Molecule: trna isopentenyltransferase; PDBTitle: crystallographic snapshots of eukaryotic2 dimethylallyltransferase acting on trna: insight into trna3 recognition and reaction mechanism
25	c3s6bA_		Alignment	not modelled	10.5	7	PDB header: hydrolase Chain: A; PDB Molecule: methionine aminopeptidase; PDBTitle: crystal structure of methionine aminopeptidase 1b from plasmodium2 falciparum, pf10_0150
26	c1tqmA_		Alignment	not modelled	10.3	13	PDB header: ribosome Chain: A; PDB Molecule: conserved hypothetical protein; PDBTitle: crystal structure of a. fulgidus rio2 serine protein kinase bound to2 amppnp
27	c3exaD_		Alignment	not modelled	9.6	18	PDB header: transferase Chain: D; PDB Molecule: trna delta(2)-isopentenylpyrophosphate PDBTitle: crystal structure of the full-length trna2 isopentenylpyrophosphate transferase (bh2366) from3 bacillus halodurans, northeast structural genomics4 consortium target bhr41.
							PDB header: ligase

28	c3r23B_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	9.5	20	Chain: B: PDB Molecule: d-alanine--d-alanine ligase; PDBTitle: crystal structure of d-alanine--d-alanine ligase from bacillus2 anthracis
29	d1zara2	<div><div></div><div>Alignment</div><div></div></div>	not modelled	9.5	15	Fold: Protein kinase-like (PK-like) Superfamily: Protein kinase-like (PK-like) Family: RIO1-like kinases
30	c3idwA_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	9.4	6	PDB header: endocytosis Chain: A: PDB Molecule: actin cytoskeleton-regulatory complex protein sla1; PDBTitle: crystal structure of sla1 homology domain 2
31	c2vd2A_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	8.8	16	PDB header: transferase Chain: A: PDB Molecule: atp phosphoribosyltransferase; PDBTitle: the crystal structure of hisg from b. subtilis
32	c2qeaB_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	8.3	24	PDB header: oxidoreductase Chain: B: PDB Molecule: putative general stress protein 26; PDBTitle: crystal structure of a putative general stress protein 26 (jann_0955)2 from jannaschia sp. ccs1 at 2.46 a resolution
33	c1ylaB_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	8.3	18	PDB header: ligase Chain: B: PDB Molecule: ubiquitin-conjugating enzyme e2-25 kda; PDBTitle: ubiquitin-conjugating enzyme e2-25 kda (huntington interacting protein2 2)
34	d2hq7a1	<div><div></div><div>Alignment</div><div></div></div>	not modelled	8.3	7	Fold: Split barrel-like Superfamily: FMN-binding split barrel Family: PNP-oxidase like
35	d1a62a2	<div><div></div><div>Alignment</div><div></div></div>	not modelled	8.2	18	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Cold shock DNA-binding domain-like
36	c3a8tA_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	8.1	13	PDB header: transferase Chain: A: PDB Molecule: adenylate isopentenyltransferase; PDBTitle: plant adenylate isopentenyltransferase in complex with atp
37	c3d3qB_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	7.8	24	PDB header: transferase Chain: B: PDB Molecule: trna delta(2)-isopentenylpyrophosphate PDBTitle: crystal structure of trna delta(2)-isopentenylpyrophosphate2 transferase (se0981) from staphylococcus epidermidis.3 northeast structural genomics consortium target ser100
38	d2cdqa3	<div><div></div><div>Alignment</div><div></div></div>	not modelled	7.6	11	Fold: Ferredoxin-like Superfamily: ACT-like Family: Aspartokinase allosteric domain-like
39	c2dvzA_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	7.6	14	PDB header: transport protein Chain: A: PDB Molecule: putative exported protein; PDBTitle: structure of a periplasmic transporter
40	c3dmbA_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	7.6	16	PDB header: oxidoreductase Chain: A: PDB Molecule: putative general stress protein 26 with a prp-oxidase like PDBTitle: crystal structure of a putative general stress family protein2 (xcc2264) from xanthomonas campestris pv. campestris at 2.30 a3 resolution
41	d2hmfa2	<div><div></div><div>Alignment</div><div></div></div>	not modelled	7.5	17	Fold: Ferredoxin-like Superfamily: ACT-like Family: Aspartokinase allosteric domain-like
42	d1rz4a1	<div><div></div><div>Alignment</div><div></div></div>	not modelled	7.5	25	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Eukaryotic translation initiation factor 3 subunit 12, eIF3k, C-terminal domain
43	d2d6fa1	<div><div></div><div>Alignment</div><div></div></div>	not modelled	7.5	30	Fold: Sm-like fold Superfamily: GatD N-terminal domain-like Family: GatD N-terminal domain-like
44	d1tf5a1	<div><div></div><div>Alignment</div><div></div></div>	not modelled	6.9	42	Fold: Pre-protein crosslinking domain of SecA Superfamily: Pre-protein crosslinking domain of SecA Family: Pre-protein crosslinking domain of SecA
45	d1nkta1	<div><div></div><div>Alignment</div><div></div></div>	not modelled	6.9	50	Fold: Pre-protein crosslinking domain of SecA Superfamily: Pre-protein crosslinking domain of SecA Family: Pre-protein crosslinking domain of SecA
46	d2r7ka2	<div><div></div><div>Alignment</div><div></div></div>	not modelled	6.7	20	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: PurP ATP-binding domain-like
47	c3dzoA_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	6.7	21	PDB header: transferase Chain: A: PDB Molecule: rhoptry kinase domain; PDBTitle: crystal structure of a rhoptry kinase from toxoplasma gondii
48	c3fozB_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	6.5	6	PDB header: transferase/rna Chain: B: PDB Molecule: trna delta(2)-isopentenylpyrophosphate transferase; PDBTitle: structure of e. coli isopentenyl-trna transferase in complex with e.2 coli trna(phe)
49	c2pr1B_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	6.5	16	PDB header: transferase Chain: B: PDB Molecule: uncharacterized n-acetyltransferase ylbp; PDBTitle: crystal structure of the bacillus subtilis n-acetyltransferase ylbp2 protein in complex with coenzyme-a
50	c3e46A_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	6.1	18	PDB header: ligase Chain: A: PDB Molecule: ubiquitin-conjugating enzyme e2-25 kda; PDBTitle: crystal structure of ubiquitin-conjugating enzyme e2-25kda2 (huntington interacting protein 2) m172a mutant
51	d1g57a_	<div><div></div><div>Alignment</div><div></div></div>	not modelled	6.0	18	Fold: YrdC/RibB Superfamily: YrdC/RibB Family: 3,4-di-hydroxy-2-butanone 4-phosphate synthase, DHBP synthase, RibB
52	d1uj4a2	<div><div></div><div>Alignment</div><div></div></div>	not modelled	5.9	71	Fold: Ferredoxin-like Superfamily: D-ribose-5-phosphate isomerase (RpiA), lid domain Family: D-ribose-5-phosphate isomerase (RpiA), lid domain
		<div><div></div><div>Alignment</div><div></div></div>				Fold: YoaC-like

53	d2es9a1	Alignment	not modelled	5.9	15	Superfamily: YoaC-like Family: YoaC-like
54	d2ozla1	Alignment	not modelled	5.9	15	Fold: Thiamin diphosphate-binding fold (THDP-binding) Superfamily: Thiamin diphosphate-binding fold (THDP-binding) Family: Branched-chain alpha-keto acid dehydrogenase PP module
55	c3lwbA	Alignment	not modelled	5.7	30	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
56	c1zdbA	Alignment	not modelled	5.7	50	PDB header: igg binding domain Chain: A: PDB Molecule: mini protein a domain, z38; PDBTitle: phage-selected mini protein a domain, z38, nmr, minimized2 mean structure
57	c3byvA	Alignment	not modelled	5.5	23	PDB header: transferase Chain: A: PDB Molecule: rhopty kinase; PDBTitle: crystal structure of toxoplasma gondii specific rhopty2 antigen kinase domain
58	d2cyya1	Alignment	not modelled	5.4	11	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Lrp/AsnC-like transcriptional regulator N-terminal domain
59	d1q46a1	Alignment	not modelled	5.4	18	Fold: SAM domain-like Superfamily: eIF2alpha middle domain-like Family: eIF2alpha middle domain-like