

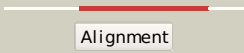



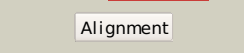



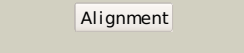
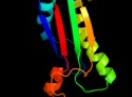


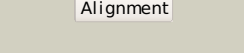



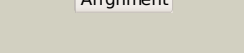

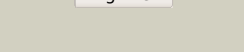



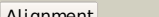
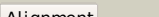
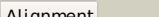
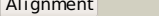
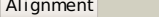
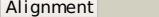
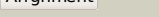




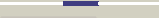



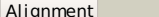
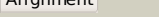




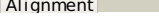



#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2l26A_	 Alignment		100.0	46	PDB header: membrane protein Chain: A: PDB Molecule: uncharacterized protein rv0899/mt0922; PDBTitle: rv0899 from mycobacterium tuberculosis contains two separated domains
2	c2k1sA_	 Alignment		100.0	100	PDB header: lipoprotein Chain: A: PDB Molecule: inner membrane lipoprotein yiad; PDBTitle: solution nmr structure of the folded c-terminal fragment of yiad from2 escherichia coli. northeast structural genomics consortium target3 er553.
3	c3khnB_	 Alignment		100.0	22	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: motb protein, putative; PDBTitle: crystal structure of putative motb like protein dvu_22282 from desulfovibrio vulgaris.
4	c2kgwA_	 Alignment		100.0	47	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein a; PDBTitle: solution structure of the carboxy-terminal domain of ompatb, a pore2 forming protein from mycobacterium tuberculosis
5	d2aizp1	 Alignment		100.0	30	Fold: Bacillus chorismate mutase-like Superfamily: OmpA-like Family: OmpA-like
6	c3td4D_	 Alignment		100.0	46	PDB header: membrane protein,peptide binding protein Chain: D: PDB Molecule: outer membrane protein omp38; PDBTitle: crystal structure of ompa-like domain from acinetobacter baumannii in2 complex with diaminopimelate
7	d1rlma_	 Alignment		100.0	27	Fold: Bacillus chorismate mutase-like Superfamily: OmpA-like Family: OmpA-like
8	c1rlmA_	 Alignment		100.0	27	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein class 4; PDBTitle: structure of the ompa-like domain of rmpm from neisseria2 meningitidis
9	d2hqsc1	 Alignment		100.0	28	Fold: Bacillus chorismate mutase-like Superfamily: OmpA-like Family: OmpA-like
10	c3cyqM_	 Alignment		100.0	30	PDB header: membrane protein Chain: M: PDB Molecule: chemotaxis protein motb; PDBTitle: the crystal structure of the complex of the c-terminal domain of2 helicobacter pylori motb (residues 125-256) with n-acetylmuramic acid
11	c2zvyB_	 Alignment		100.0	21	PDB header: membrane protein Chain: B: PDB Molecule: chemotaxis protein motb; PDBTitle: structure of the periplasmic domain of motb from salmonella2 (crystal form ii)

12	c3ldtA_	Alignment		100.0	28	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein, ompa family protein; PDBTitle: crystal structure of an outer membrane protein(ompa)from2 legionella pneumophila
13	c3oonA_	Alignment		99.9	28	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein (tpn50); PDBTitle: the structure of an outer membrane protein from borrelia burgdorferi2 b31
14	c2zovA_	Alignment		99.9	24	PDB header: membrane protein Chain: A: PDB Molecule: chemotaxis protein motb; PDBTitle: structure of the periplasmic domain of motb from salmonella2 (crystal form i)
15	c2zf8A_	Alignment		99.8	25	PDB header: structural protein Chain: A: PDB Molecule: component of sodium-driven polar flagellar motor; PDBTitle: crystal structure of moty
16	c2r6hC_	Alignment		60.8	25	PDB header: oxidoreductase Chain: C: PDB Molecule: nadh:ubiquinone oxidoreductase, na translocating, f PDBTitle: crystal structure of the domain comprising the nad binding and the fad2 binding regions of the nadh:ubiquinone oxidoreductase, na3 translocating, f subunit from porphyromonas gingivalis
17	c2qw5B_	Alignment		55.6	11	PDB header: isomerase Chain: B: PDB Molecule: xylose isomerase-like tim barrel; PDBTitle: crystal structure of a putative sugar phosphate isomerase/epimerase2 (ava4194) from anabaena variabilis atcc 29413 at 1.78 a resolution
18	d1gvha3	Alignment		51.9	24	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Flavohemoglobin, C-terminal domain
19	c1gvhA_	Alignment		51.9	25	PDB header: oxidoreductase Chain: A: PDB Molecule: flavohemoprotein; PDBTitle: the x-ray structure of ferric escherichia coli2 flavohemoglobin reveals an unsuspected geometry of the3 distal heme pocket
20	d1tiaa_	Alignment		49.4	21	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
21	c3cqyA_	Alignment	not modelled	44.1	18	PDB header: transferase Chain: A: PDB Molecule: anhydro-n-acetylmuramic acid kinase; PDBTitle: crystal structure of a functionally unknown protein (so_1313) from2 shewanella oneidensis mr-1
22	d1tiba_	Alignment	not modelled	42.9	25	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
23	d1cqxa3	Alignment	not modelled	38.9	25	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Flavohemoglobin, C-terminal domain
24	c3ngmB_	Alignment	not modelled	38.6	25	PDB header: hydrolase Chain: B: PDB Molecule: extracellular lipase; PDBTitle: crystal structure of lipase from gibberella zeae
25	c1cqxB_	Alignment	not modelled	33.4	25	PDB header: lipid binding protein Chain: B: PDB Molecule: flavohemoprotein; PDBTitle: crystal structure of the flavohemoglobin from alcaligenes eutrophus at2 1.75 a resolution
26	c2gpiA_	Alignment	not modelled	33.3	9	PDB header: fad-binding protein Chain: A: PDB Molecule: siderophore-interacting protein; PDBTitle: crystal structure of a siderophore-interacting protein (sputcn32_0076)2 from shewanella putrefaciens cn-32 at 2.20 a resolution
27	c3qbwA_	Alignment	not modelled	32.6	21	PDB header: transferase Chain: A: PDB Molecule: anhydro-n-acetylmuramic acid kinase; PDBTitle: crystal structure of pseudomonas aeruginosa 1,6-anhydro-n-2 actetylmuramic acid kinase (anmk) bound to adenosine diphosphate
28	c3g7nA_	Alignment	not modelled	32.6	20	PDB header: hydrolase Chain: A: PDB Molecule: lipase; PDBTitle: crystal structure of a triacylglycerol lipase from2 penicillium expansum at 1.3

29	d1krha2	Alignment	not modelled	31.3	23	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Aromatic dioxygenase reductase-like
30	c3o0dF	Alignment	not modelled	30.9	25	PDB header: hydrolase Chain: F: PDB Molecule: triacylglycerol lipase; PDBTitle: crystal structure of lip2 lipase from yarrowia lipolytica at 1.7 a2 resolution
31	c1tvca	Alignment	not modelled	30.7	11	PDB header: oxidoreductase Chain: A: PDB Molecule: methane monooxygenase component c; PDBTitle: fad and nadh binding domain of methane monooxygenase2 reductase from methylococcus capsulatus (bath)
32	d1tvca2	Alignment	not modelled	29.9	11	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Aromatic dioxygenase reductase-like
33	d1uzhc1	Alignment	not modelled	26.3	15	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
34	d1uwca	Alignment	not modelled	25.2	25	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
35	d1rbli	Alignment	not modelled	25.0	22	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
36	d1bxni	Alignment	not modelled	24.7	16	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
37	c1amuB	Alignment	not modelled	23.7	14	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
38	c3pe3D	Alignment	not modelled	22.4	18	PDB header: transferase Chain: D: PDB Molecule: udp-n-acetylglucosamine--peptide n- PDBTitle: structure of human o-glcna transferase and its complex with a peptide2 substrate
39	d1svdm1	Alignment	not modelled	21.2	24	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
40	c3pa8A	Alignment	not modelled	20.6	16	PDB header: toxin/peptide inhibitor Chain: A: PDB Molecule: toxin b; PDBTitle: structure of the c. difficile tcdB cysteine protease domain in complex2 with a peptide inhibitor
41	c3iteB	Alignment	not modelled	20.2	17	PDB header: ligase Chain: B: PDB Molecule: sidN siderophore synthetase; PDBTitle: the third adenylation domain of the fungal sidN non-2 ribosomal peptide synthetase
42	d2axla1	Alignment	not modelled	20.1	16	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: RecQ helicase DNA-binding domain-like
43	d8ruci	Alignment	not modelled	16.2	31	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
44	d1xdpa4	Alignment	not modelled	15.0	18	Fold: Phospholipase D/nuclease Superfamily: Phospholipase D/nuclease Family: Polyphosphate kinase C-terminal domain
45	c1krhA	Alignment	not modelled	14.9	23	PDB header: oxidoreductase Chain: A: PDB Molecule: benzoate 1,2-dioxygenase reductase; PDBTitle: x-ray stucture of benzoate dioxygenase reductase
46	d2o8ra4	Alignment	not modelled	14.9	24	Fold: Phospholipase D/nuclease Superfamily: Phospholipase D/nuclease Family: Polyphosphate kinase C-terminal domain
47	c1jrjA	Alignment	not modelled	14.8	17	PDB header: hormone/growth factor Chain: A: PDB Molecule: exendin-4; PDBTitle: solution structure of exendin-4 in 30-vol% trifluoroethanol
48	d1bwvs	Alignment	not modelled	14.5	19	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
49	d1lr1s	Alignment	not modelled	14.3	22	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
50	d1wdds	Alignment	not modelled	14.3	27	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
51	d1jmxal	Alignment	not modelled	14.3	18	Fold: Cytochrome c Superfamily: Cytochrome c Family: Quinohemoprotein amine dehydrogenase A chain, domains 1 and 2
52	d1i4ua	Alignment	not modelled	14.2	22	Fold: Lipocalins Superfamily: Lipocalins Family: Retinol binding protein-like
53	d1r3na1	Alignment	not modelled	13.9	8	Fold: Phosphorylase/hydrolase-like Superfamily: Zn-dependent exopeptidases Family: Bacterial dinuclear zinc exopeptidases
54	c3ds8A	Alignment	not modelled	13.4	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: lin2722 protein; PDBTitle: the crysatl structure of the gene lin2722 products from listeria2 innocua
55	d1d4oa	Alignment	not modelled	13.4	16	Fold: DHS-like NAD/FAD-binding domain Superfamily: DHS-like NAD/FAD-binding domain Family: Transhydrogenase domain III (dIII)

56	c1pt9B	 Alignment	not modelled	12.6	16	PDB header: oxidoreductase Chain: B: PDB Molecule: nad(p) transhydrogenase, mitochondrial; PDBTitle: crystal structure analysis of the diii component of transhydrogenase2 with a thio-nicotinamide nucleotide analogue
57	c3og9A	 Alignment	not modelled	12.4	12	PDB header: hydrolase Chain: A: PDB Molecule: protein yahd a copper inducible hydrolase; PDBTitle: structure of yahd with malic acid
58	c3a9lB	 Alignment	not modelled	12.2	22	PDB header: hydrolase Chain: B: PDB Molecule: poly-gamma-glutamate hydrolase; PDBTitle: structure of bacteriophage poly-gamma-glutamate hydrolase
59	c1nauA	 Alignment	not modelled	12.1	18	PDB header: hormone/growth factor Chain: A: PDB Molecule: glucagon; PDBTitle: nmr solution structure of the glucagon antagonist [desHis1,2 desPhe6, glu9]glucagon amide in the presence of 3 perdeuterated dodecylphosphocholine micelles
60	d3tgla	 Alignment	not modelled	12.1	25	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
61	c2bgjB	 Alignment	not modelled	12.0	13	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin-nadp(h) reductase; PDBTitle: x-ray structure of the ferredoxin-nadp(h) reductase from2 rhodobacter capsulatus at 2.1 angstroms
62	c3iibA	 Alignment	not modelled	12.0	15	PDB header: hydrolase Chain: A: PDB Molecule: peptidase m28; PDBTitle: crystal structure of peptidase m28 precursor (yp_926796.1) from2 shewanella amazonensis sb2b at 1.70 a resolution
63	c3l7pA	 Alignment	not modelled	11.7	21	PDB header: transcription Chain: A: PDB Molecule: putative nitrogen regulatory protein pii; PDBTitle: crystal structure of smu.1657c, putative nitrogen regulatory protein2 pii from streptococcus mutans
64	d1tkja1	 Alignment	not modelled	10.9	17	Fold: Phosphorylase/hydrolase-like Superfamily: Zn-dependent exopeptidases Family: Bacterial dinuclear zinc exopeptidases
65	d1lgya	 Alignment	not modelled	10.8	20	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Fungal lipases
66	c3ca8B	 Alignment	not modelled	10.7	12	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: protein ydcf; PDBTitle: crystal structure of escherichia coli ydcf, an s-adenosyl-l-methionine2 utilizing enzyme
67	c2rd5D	 Alignment	not modelled	10.5	20	PDB header: protein binding Chain: D: PDB Molecule: pii protein; PDBTitle: structural basis for the regulation of n-acetylglutamate kinase by pii2 in arabidopsis thaliana
68	d1saza1	 Alignment	not modelled	10.2	16	Fold: Ribonuclease H-like motif Superfamily: Actin-like ATPase domain Family: Acetokinase-like
69	c1gplA	 Alignment	not modelled	10.0	18	PDB header: serine esterase Chain: A: PDB Molecule: rp2 lipase; PDBTitle: rp2 lipase
70	c2ckcA	 Alignment	not modelled	9.9	23	PDB header: hydrolase Chain: A: PDB Molecule: chromodomain-helicase-dna-binding protein 7; PDBTitle: solution structures of the brk domains of the human chromo2 helicase domain 7 and 8, reveals structural similarity3 with gyf domain suggesting a role in protein interaction
71	d2ckca1	 Alignment	not modelled	9.9	23	Fold: GYF/BRK domain-like Superfamily: BRK domain-like Family: BRK domain-like
72	c2ogsA	 Alignment	not modelled	9.9	24	PDB header: hydrolase Chain: A: PDB Molecule: thermostable carboxylesterase est50; PDBTitle: crystal structure of the geobacillus stearothermophilus2 carboxylesterase est55 at ph 6.2
73	c3b9eA	 Alignment	not modelled	9.9	15	PDB header: hydrolase Chain: A: PDB Molecule: chitinase a; PDBTitle: crystal structure of inactive mutant e315m chitinase a from2 vibrio harveyi
74	c2oghA	 Alignment	not modelled	9.9	27	PDB header: translation Chain: A: PDB Molecule: eukaryotic translation initiation factor eif-1; PDBTitle: solution structure of yeast eif1
75	d1e32a3	 Alignment	not modelled	9.8	18	Fold: Cdc48 domain 2-like Superfamily: Cdc48 domain 2-like Family: Cdc48 domain 2-like
76	d1amua	 Alignment	not modelled	9.8	13	Fold: Acetyl-CoA synthetase-like Superfamily: Acetyl-CoA synthetase-like Family: Acetyl-CoA synthetase-like
77	d1pbya1	 Alignment	not modelled	9.7	11	Fold: Cytochrome c Superfamily: Cytochrome c Family: Quinohemoprotein amine dehydrogenase A chain, domains 1 and 2
78	d1ej7s	 Alignment	not modelled	9.3	23	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
79	d2v0ea1	 Alignment	not modelled	9.2	25	Fold: GYF/BRK domain-like Superfamily: BRK domain-like Family: BRK domain-like
80	d2nvma1	 Alignment	not modelled	9.0	13	Fold: XisI-like Superfamily: XisI-like Family: XisI-like
81	d1lwfyA	Alignment	not modelled	9.0	9	Fold: beta-Grasp (ubiquitin-like) Superfamily: Ubiquitin-like

						Family: Ras-binding domain, RBD
82	c3eyiB_	Alignment	not modelled	8.9	33	PDB header: dna binding protein/dna Chain: B: PDB Molecule: z-dna-binding protein 1; PDBTitle: the crystal structure of the second z-dna binding domain of2 human dai (zbp1) in complex with z-dna
83	d1gk8i_	Alignment	not modelled	8.8	13	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
84	c3mxoB_	Alignment	not modelled	8.8	15	PDB header: hydrolase Chain: B: PDB Molecule: serine/threonine-protein phosphatase pgam5, mitochondrial; PDBTitle: crystal structure oh human phosphoglycerate mutase family member 52 (pgam5)
85	d1uzdc1	Alignment	not modelled	8.6	13	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
86	c1f8uA_	Alignment	not modelled	8.5	18	PDB header: hydrolase/toxin Chain: A: PDB Molecule: acetylcholinesterase; PDBTitle: crystal structure of mutant e202q of human acetylcholinesterase2 complexed with green mamba venom peptide fasciculin-ii
87	d1f8ua_	Alignment	not modelled	8.5	18	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Acetylcholinesterase-like
88	c2apnA_	Alignment	not modelled	8.5	17	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: protein hi1723; PDBTitle: hi1723 solution structure
89	c1hplB_	Alignment	not modelled	8.3	12	PDB header: hydrolase(carboxylic esterase) Chain: B: PDB Molecule: lipase; PDBTitle: horse pancreatic lipase. the crystal structure at 2.32 angstroms resolution
90	c2el7A_	Alignment	not modelled	7.9	12	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from thermus2 thermophilus
91	d2nlva1	Alignment	not modelled	7.9	33	Fold: Xisl-like Superfamily: Xisl-like Family: Xisl-like
92	d1u5ta2	Alignment	not modelled	7.8	19	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Vacuolar sorting protein domain
93	d1o57a1	Alignment	not modelled	7.7	11	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: N-terminal domain of Bacillus PurR
94	d2v6ai1	Alignment	not modelled	7.6	13	Fold: RuBisCO, small subunit Superfamily: RuBisCO, small subunit Family: RuBisCO, small subunit
95	d1qy7a_	Alignment	not modelled	7.4	14	Fold: Ferredoxin-like Superfamily: GlnB-like Family: Prokaryotic signal transducing protein
96	c3b64A_	Alignment	not modelled	7.3	25	PDB header: cytokine Chain: A: PDB Molecule: macrophage migration inhibitory factor-like PDBTitle: macrophage migration inhibitory factor (mif) from2 /leishmania major
97	d1rp1a2	Alignment	not modelled	7.3	10	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Pancreatic lipase, N-terminal domain
98	c2pfuA_	Alignment	not modelled	7.2	11	PDB header: transport protein Chain: A: PDB Molecule: biopolymer transport exbd protein; PDBTitle: nmr strcuture determination of the periplasmic domain of exbd from2 e.coli
99	d2ha2a1	Alignment	not modelled	7.0	21	Fold: alpha/beta-Hydrolases Superfamily: alpha/beta-Hydrolases Family: Acetylcholinesterase-like