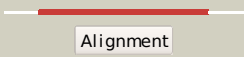

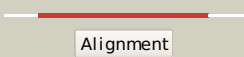

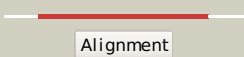

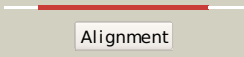

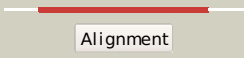

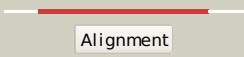

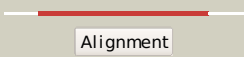

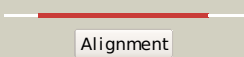

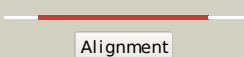

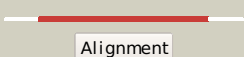

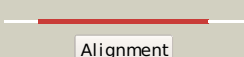

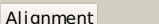




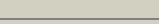

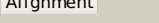
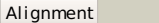
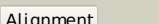

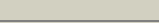
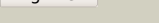
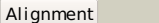


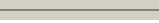

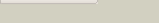
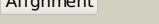

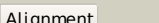

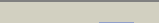

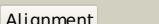


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	dlu7na_	 Alignment		100.0	37	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: PIsX-like
2	dlv1a_	 Alignment		100.0	36	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: PIsX-like
3	dlxcoa_	 Alignment		100.0	22	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: Phosphotransacetylase
4	d2af4c1	 Alignment		100.0	19	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: Phosphotransacetylase
5	dlr5ja_	 Alignment		100.0	22	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: Phosphotransacetylase
6	clycoA_	 Alignment		100.0	16	PDB header: transferase Chain: A: PDB Molecule: branched-chain phosphotransacylase; PDBTitle: crystal structure of a branched-chain phosphotransacylase from <i>enterococcus faecalis</i> v583
7	c3tnqA_	 Alignment		100.0	21	PDB header: transferase Chain: A: PDB Molecule: lmo1369 protein; PDBTitle: the crystal structure of a possible phosphate acetyl/butaryl2 transferase from <i>listeria monocytogenes</i> egd-e.
8	dlvmia_	 Alignment		100.0	19	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: Phosphotransacetylase
9	clvmiA_	 Alignment		100.0	19	PDB header: transferase Chain: A: PDB Molecule: putative phosphate acetyltransferase; PDBTitle: crystal structure of putative phosphate acetyltransferase2 (np_416953.1) from <i>escherichia coli</i> k12 at 2.32 a resolution
10	dlptma_	 Alignment		100.0	16	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: PdxA-like
11	clyxoB_	 Alignment		100.0	20	PDB header: oxidoreductase Chain: B: PDB Molecule: 4-hydroxythreonine-4-phosphate dehydrogenase 1; PDBTitle: crystal structure of pyridoxal phosphate biosynthetic protein pdxa2 pa0593

12	dlr8ka_		Alignment		100.0	17	Fold: Isocitrate/Isopropylmalate dehydrogenase-like Superfamily: Isocitrate/Isopropylmalate dehydrogenase-like Family: PdxA-like
13	c2hi1A_		Alignment		98.4	20	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: 4-hydroxythreonine-4-phosphate dehydrogenase 2; PDBTitle: the structure of a putative 4-hydroxythreonine-4-phosphate2 dehydrogenase from salmonella typhimurium.
14	dlqgoa_		Alignment		74.7	12	Fold: Chelatase-like Superfamily: Chelatase Family: Cobalt chelatase CbiK
15	dlgmla_		Alignment		64.9	19	Fold: The "swivelling" beta/beta/alpha domain Superfamily: GroEL apical domain-like Family: Group II chaperonin (CCT, TRIC), apical domain
16	c2phjA_		Alignment		56.6	18	PDB header: hydrolase Chain: A: PDB Molecule: 5'-nucleotidase sure; PDBTitle: crystal structure of sure protein from aquifex aeolicus
17	c3qd5B_		Alignment		56.0	23	PDB header: isomerase Chain: B: PDB Molecule: putative ribose-5-phosphate isomerase; PDBTitle: crystal structure of a putative ribose-5-phosphate isomerase from2 coccidioides immitis solved by combined iodide ion sad and mr
18	c3lyhB_		Alignment		55.8	17	PDB header: lyase Chain: B: PDB Molecule: cobalamin (vitamin b12) biosynthesis cbix protein; PDBTitle: crystal structure of putative cobalamin (vitamin b12) biosynthesis2 cbix protein (yp_958415.1) from marinobacter aquaeolei vt8 at 1.60 a3 resolution
19	c3gdwA_		Alignment		53.7	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: sigma-54 interaction domain protein; PDBTitle: crystal structure of sigma-54 interaction domain protein from2 enterococcus faecalis
20	dl1jna_		Alignment		52.2	23	Fold: Chelatase-like Superfamily: Chelatase Family: CbiX-like
21	cl1jnA_		Alignment	not modelled	52.2	23	PDB header: lyase Chain: A: PDB Molecule: sirohdrochlorin cobaltochelataze; PDBTitle: crystal structure of hypothetical protein af0721 from archaeoglobus2 fulgidus
22	c2pjuD_		Alignment	not modelled	52.0	21	PDB header: transcription Chain: D: PDB Molecule: propionate catabolism operon regulatory protein; PDBTitle: crystal structure of propionate catabolism operon2 regulatory protein prpr
23	dlkzyc2		Alignment	not modelled	48.1	29	Fold: BRCT domain Superfamily: BRCT domain Family: 53BP1
24	c2ja9A_		Alignment	not modelled	46.9	14	PDB header: rna-binding protein Chain: A: PDB Molecule: exosome complex exonuclease rrp40; PDBTitle: structure of the n-terminal deletion of yeast exosome2 component rrp40
25	dlq3qa3		Alignment	not modelled	43.6	19	Fold: GroEL-intermediate domain like Superfamily: GroEL-intermediate domain like Family: Group II chaperonin (CCT, TRIC), intermediate domain
26	dlj9ja_		Alignment	not modelled	43.5	16	Fold: SurE-like Superfamily: SurE-like Family: SurE-like
27	dlwu2a3		Alignment	not modelled	42.9	33	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MoeA central domain-like
28	c2v4oB_		Alignment	not modelled	42.2	18	PDB header: hydrolase Chain: B: PDB Molecule: multifunctional protein sur e; PDBTitle: crystal structure of salmonella typhimurium sure at 2.752 angstrom resolution in monoclinic form

29	c2xvzA	 Alignment	not modelled	40.6	19	PDB header: metal binding protein Chain: A: PDB Molecule: chelataase, putative; PDBTitle: cobalt chelataase cbik (periplasmatic) from desulvobrio2 vulgaris hildenborough (co-crystallized with cobalt)
30	d1y5ea1	 Alignment	not modelled	39.5	16	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like
31	d2pju1	 Alignment	not modelled	38.5	22	Fold: Chelatase-like Superfamily: PrpR receptor domain-like Family: PrpR receptor domain-like
32	d1fuia2	 Alignment	not modelled	38.3	14	Fold: Fucl/AraA N-terminal and middle domains Superfamily: Fucl/AraA N-terminal and middle domains Family: L-fucose isomerase, N-terminal and second domains
33	d2ja9a2	 Alignment	not modelled	38.2	15	Fold: Eukaryotic type KH-domain (KH-domain type I) Superfamily: Eukaryotic type KH-domain (KH-domain type I) Family: Eukaryotic type KH-domain (KH-domain type I)
34	d2ftsa3	 Alignment	not modelled	36.8	45	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MoeA central domain-like
35	c3gx1A	 Alignment	not modelled	35.4	10	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: lin1832 protein; PDBTitle: crystal structure of a domain of lin1832 from listeria innocua
36	d3ct6a1	 Alignment	not modelled	35.2	29	Fold: PTS system fructose IIA component-like Superfamily: PTS system fructose IIA component-like Family: DhaM-like
37	d1uz5a3	 Alignment	not modelled	34.8	45	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MoeA central domain-like
38	c3k93A	 Alignment	not modelled	31.0	26	PDB header: hydrolase Chain: A: PDB Molecule: phage related exonuclease; PDBTitle: crystal structure of phage related exonuclease (yp_719632.1) from2 haemophilus somnus 129pt at 2.15 a resolution
39	d3b48a1	 Alignment	not modelled	30.1	24	Fold: PTS system fructose IIA component-like Superfamily: PTS system fructose IIA component-like Family: DhaM-like
40	c3imkA	 Alignment	not modelled	29.7	22	PDB header: metal binding protein Chain: A: PDB Molecule: putative molybdenum carrier protein; PDBTitle: crystal structure of putative molybdenum carrier protein (yp_461806.1)2 from syntrophus aciditrophicus sb at 1.45 a resolution
41	d1pkpa1	 Alignment	not modelled	28.9	19	Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: Translational machinery components
42	d2uube1	 Alignment	not modelled	28.3	24	Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: Translational machinery components
43	d1iowa1	 Alignment	not modelled	28.0	21	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: D-Alanine ligase N-terminal domain
44	c3se7A	 Alignment	not modelled	26.7	11	PDB header: ligase Chain: A: PDB Molecule: vana; PDBTitle: ancient vana
45	c3lkzB	 Alignment	not modelled	24.6	23	PDB header: viral protein Chain: B: PDB Molecule: non-structural protein 5; PDBTitle: structural and functional analyses of a conserved hydrophobic pocket2 of flavivirus methyltransferase
46	d1jlja	 Alignment	not modelled	22.9	21	Fold: Molybdenum cofactor biosynthesis proteins Superfamily: Molybdenum cofactor biosynthesis proteins Family: MogA-like
47	d1su1a	 Alignment	not modelled	21.8	14	Fold: Metallo-dependent phosphatases Superfamily: Metallo-dependent phosphatases Family: YfcE-like
48	c1su1A	 Alignment	not modelled	21.8	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein yfce; PDBTitle: structural and biochemical characterization of yfce, a2 phosphoesterase from e. coli
49	c1p6gE	 Alignment	not modelled	21.6	15	PDB header: ribosome Chain: E: PDB Molecule: 30s ribosomal protein s5; PDBTitle: real space refined coordinates of the 30s subunit fitted2 into the low resolution cryo-em map of the ef-g.gtp state3 of e. coli 70s ribosome
50	c1jqsb	 Alignment	not modelled	21.3	50	PDB header: ribosome Chain: B: PDB Molecule: elongation factor g; PDBTitle: fitting of l11 protein and elongation factor g (domain g'2 and v) in the cryo-em map of e. coli 70s ribosome bound3 with ef-g and gmppcp, a nonhydrolysable gtp analog
51	d2qale1	 Alignment	not modelled	21.2	19	Fold: Ribosomal protein S5 domain 2-like Superfamily: Ribosomal protein S5 domain 2-like Family: Translational machinery components
52	c3i12A	 Alignment	not modelled	20.4	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
53	d1v4va	 Alignment	not modelled	19.9	21	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
54	d1a6db2	 Alignment	not modelled	19.8	14	Fold: The "swivelling" beta/beta/alpha domain Superfamily: GroEL apical domain-like Family: Group II chaperonin (CCT, TRIC), apical domain

55	dlassa_	Alignment	not modelled	17.5	17	Fold: The "swivelling" beta/beta/alpha domain Superfamily: GroEL apical domain-like Family: Group II chaperonin (CCT, TRIC), apical domain
56	dliqoa_	Alignment	not modelled	17.2	14	Fold: Hypothetical protein MTH1880 Superfamily: Hypothetical protein MTH1880 Family: Hypothetical protein MTH1880
57	c2xcuC_	Alignment	not modelled	17.2	16	PDB header: transferase Chain: C: PDB Molecule: 3-deoxy-d-manno-2-octulosonic acid transferase; PDBTitle: membrane-embedded monofunctional glycosyltransferase waaa of aquifex2 aeolicus, comlex with cmp
58	c2xnkA_	Alignment	not modelled	16.3	20	PDB header: isomerase Chain: A: PDB Molecule: dna topoisomerase 2-binding protein 1; PDBTitle: structure and function of the rad9-binding region of the dna damage2 checkpoint adaptor topbp1
59	c2e6gl_	Alignment	not modelled	16.1	19	PDB header: hydrolase Chain: I: PDB Molecule: 5'-nucleotidase sure; PDBTitle: crystal structure of the stationary phase survival protein sure from2 thermus thermophilus hb8 in complex with phosphate
60	c3qfnA_	Alignment	not modelled	16.0	19	PDB header: hydrolase Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of streptococcal asymmetric ap4a hydrolase and2 phosphodiesterase spr1479/saph in complex with inorganic phosphate
61	c3af5A_	Alignment	not modelled	15.7	26	PDB header: hydrolase Chain: A: PDB Molecule: putative uncharacterized protein ph1404; PDBTitle: the crystal structure of an archaeal cpsf subunit, ph1404 from2 pyrococcus horikoshii
62	d1tqya1	Alignment	not modelled	14.5	14	Fold: Thiolase-like Superfamily: Thiolase-like Family: Thiolase-related
63	c2nqqA_	Alignment	not modelled	14.0	50	PDB header: biosynthetic protein Chain: A: PDB Molecule: molybdopterin biosynthesis protein moea; PDBTitle: moea r137q
64	c3dcjA_	Alignment	not modelled	13.6	22	PDB header: transferase Chain: A: PDB Molecule: probable 5'-phosphoribosylglycinamide PDBTitle: crystal structure of glycinamide formyltransferase (purn)2 from mycobacterium tuberculosis in complex with 5-methyl-5,3 6,7,8-tetrahydrofolic acid derivative
65	c2xzmE_	Alignment	not modelled	13.4	20	PDB header: ribosome Chain: E: PDB Molecule: ribosomal protein s5 containing protein; PDBTitle: crystal structure of the eukaryotic 40s ribosomal2 subunit in complex with initiation factor 1. this file3 contains the 40s subunit and initiation factor for4 molecule 1
66	c3lfhF_	Alignment	not modelled	13.0	19	PDB header: transferase Chain: F: PDB Molecule: phosphotransferase system, mannose/fructose-specific PDBTitle: crystal structure of manxa from thermoanaerobacter tengcongensis
67	c2fu3A_	Alignment	not modelled	13.0	27	PDB header: biosynthetic protein/structural protein Chain: A: PDB Molecule: gephyrin; PDBTitle: crystal structure of gephyrin e-domain
68	c2q5cA_	Alignment	not modelled	12.9	18	PDB header: transcription Chain: A: PDB Molecule: ntrc family transcriptional regulator; PDBTitle: crystal structure of ntrc family transcriptional regulator from2 clostridium acetobutylicum
69	d1b77a2	Alignment	not modelled	12.5	19	Fold: DNA clamp Superfamily: DNA clamp Family: DNA polymerase processivity factor
70	c3iprC_	Alignment	not modelled	12.5	35	PDB header: transferase Chain: C: PDB Molecule: pts system, lia component; PDBTitle: crystal structure of the enterococcus faecalis gluconate2 specific eiia phosphotransferase system component
71	c3oryA_	Alignment	not modelled	12.4	18	PDB header: hydrolase Chain: A: PDB Molecule: flap endonuclease 1; PDBTitle: crystal structure of flap endonuclease 1 from hyperthermophilic2 archaeon desulfurococcus amylolyticus
72	c2ow8f_	Alignment	not modelled	12.4	28	PDB header: ribosome Chain: F: PDB Molecule: PDBTitle: crystal structure of a 70s ribosome-trna complex reveals functional2 interactions and rearrangements. this file, 2ow8, contains the 30s3 ribosome subunit, two trna, and mrna molecules. 50s ribosome subunit4 is in the file 1vsa.
73	d1lqta1	Alignment	not modelled	12.1	9	Fold: FAD/NAD(P)-binding domain Superfamily: FAD/NAD(P)-binding domain Family: C-terminal domain of adrenodoxin reductase-like
74	d2nn6g3	Alignment	not modelled	11.5	13	Fold: Eukaryotic type KH-domain (KH-domain type I) Superfamily: Eukaryotic type KH-domain (KH-domain type I) Family: Eukaryotic type KH-domain (KH-domain type I)
75	d1kfia2	Alignment	not modelled	11.3	25	Fold: Phosphoglucomutase, first 3 domains Superfamily: Phosphoglucomutase, first 3 domains Family: Phosphoglucomutase, first 3 domains
76	c3bbnE_	Alignment	not modelled	10.6	31	PDB header: ribosome Chain: E: PDB Molecule: ribosomal protein s5; PDBTitle: homology model for the spinach chloroplast 30s subunit2 fitted to 9.4a cryo-em map of the 70s chlororibosome.
77	d1oaoa_	Alignment	not modelled	10.5	27	Fold: Prismane protein-like Superfamily: Prismane protein-like Family: Carbon monoxide dehydrogenase
78	c2yw3E_	Alignment	not modelled	10.5	20	PDB header: lyase Chain: E: PDB Molecule: 4-hydroxy-2-oxoglutarate aldolase/2-deydro-3- PDBTitle: crystal structure analysis of the 4-hydroxy-2-oxoglutarate aldolase/2-2 deydro-3-deoxyphosphogluconate aldolase from tthb1

79	d1o6ca_	Alignment	not modelled	10.4	14	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: UDP-N-acetylglucosamine 2-epimerase
80	c2jfsA_	Alignment	not modelled	10.4	12	PDB header: hydrolase Chain: A: PDB Molecule: ser-thr phosphatase mspp; PDBTitle: crystal structure of the ppm ser-thr phosphatase mspp from2 mycobacterium smegmatis in complex with cacodylate
81	d2oqea3	Alignment	not modelled	10.4	15	Fold: Cystatin-like Superfamily: Amine oxidase N-terminal region Family: Amine oxidase N-terminal region
82	c1eg0B_	Alignment	not modelled	10.2	22	PDB header: ribosome PDB COMPND:
83	d1e4ea1	Alignment	not modelled	10.2	18	Fold: PreATP-grasp domain Superfamily: PreATP-grasp domain Family: D-Alanine ligase N-terminal domain
84	d1o1xa_	Alignment	not modelled	10.0	11	Fold: Ribose/Galactose isomerase RpiB/AlsB Superfamily: Ribose/Galactose isomerase RpiB/AlsB Family: Ribose/Galactose isomerase RpiB/AlsB
85	c2p3qA_	Alignment	not modelled	9.9	22	PDB header: viral protein,transferase Chain: A: PDB Molecule: type ii methyltransferase; PDBTitle: crystal structure of dengue methyltransferase in complex with gpppg2 and s-adenosyl-l-homocysteine
86	d2bfwa1	Alignment	not modelled	9.9	14	Fold: UDP-Glycosyltransferase/glycogen phosphorylase Superfamily: UDP-Glycosyltransferase/glycogen phosphorylase Family: Glycosyl transferases group 1
87	c3hp7A_	Alignment	not modelled	9.9	22	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hemolysin, putative; PDBTitle: putative hemolysin from streptococcus thermophilus.
88	c1uz5A_	Alignment	not modelled	9.6	30	PDB header: molybdopterin biosynthesis Chain: A: PDB Molecule: 402aa long hypothetical molybdopterin PDBTitle: the crystal structure of molybdopterin biosynthesis moea2 protein from pyrococcus horikoshii
89	c2kpmA_	Alignment	not modelled	9.6	10	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: solution nmr structure of uncharacterized protein from gene2 locus ne0665 of nitrosomonas europaea. northeast structural3 genomics target ner103a
90	c1wu2B_	Alignment	not modelled	9.6	31	PDB header: structural genomics,biosynthetic protein Chain: B: PDB Molecule: molybdopterin biosynthesis moea protein; PDBTitle: crystal structure of molybdopterin biosynthesis moea2 protein from pyrococcus horikoshii ot3
91	c2jh3C_	Alignment	not modelled	9.5	21	PDB header: ribosomal protein Chain: C: PDB Molecule: ribosomal protein s2-related protein; PDBTitle: the crystal structure of dr2241 from deinococcus2 radiodurans at 1.9 a resolution reveals a multi-domain3 protein with structural similarity to chelataes but also4 with two additional novel domains
92	c1b43A_	Alignment	not modelled	9.3	16	PDB header: transferase Chain: A: PDB Molecule: protein (fen-1); PDBTitle: fen-1 from p. furiosus
93	c2wa1A_	Alignment	not modelled	9.2	20	PDB header: transferase Chain: A: PDB Molecule: non-structural protein 5; PDBTitle: structure of the methyltransferase domain from modoc virus,2 a flavivirus with no known vector (nkx)
94	d1xo1a1	Alignment	not modelled	9.1	10	Fold: SAM domain-like Superfamily: 5' to 3' exonuclease, C-terminal subdomain Family: 5' to 3' exonuclease, C-terminal subdomain
95	c3s5pA_	Alignment	not modelled	8.9	13	PDB header: isomerase Chain: A: PDB Molecule: ribose 5-phosphate isomerase; PDBTitle: crystal structure of ribose-5-phosphate isomerase b rpiB from giardia2 lamblia
96	d1p90a_	Alignment	not modelled	8.9	17	Fold: Ribonuclease H-like motif Superfamily: Nitrogenase accessory factor-like Family: Nitrogenase accessory factor
97	d1pdoa_	Alignment	not modelled	8.8	25	Fold: PTS system fructose IIA component-like Superfamily: PTS system fructose IIA component-like Family: EIIA-man component-like
98	c3mtqA_	Alignment	not modelled	8.6	24	PDB header: transferase Chain: A: PDB Molecule: putative phosphoenolpyruvate-dependent sugar PDBTitle: crystal structure of a putative phosphoenolpyruvate-dependent sugar2 phosphotransferase system (pts) permease (kpn_04802) from klebsiella3 pneumoniae subsp. pneumoniae mgh 78578 at 1.70 a resolution
99	d3pmga2	Alignment	not modelled	8.4	42	Fold: Phosphoglucumutase, first 3 domains Superfamily: Phosphoglucumutase, first 3 domains Family: Phosphoglucumutase, first 3 domains