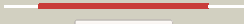



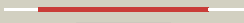


















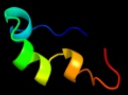

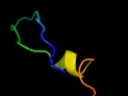


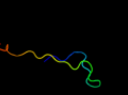




#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3oxpB_	 Alignment		100.0	37	PDB header: transferase Chain: B: PDB Molecule: phosphotransferase enzyme ii, a component; PDBTitle: structure of phosphotransferase enzyme ii, a component from yersinia2 pestis co92 at 1.2 a resolution
2	c3oxpA_	 Alignment		100.0	37	PDB header: transferase Chain: A: PDB Molecule: phosphotransferase enzyme ii, a component; PDBTitle: structure of phosphotransferase enzyme ii, a component from yersinia2 pestis co92 at 1.2 a resolution
3	c2oq3A_	 Alignment		100.0	34	PDB header: transferase Chain: A: PDB Molecule: mannitol-specific cryptic phosphotransferase PDBTitle: solution structure of the mannitol- specific cryptic2 phosphotransferase enzyme iia cmtb from escherichia coli
4	c3bjvA_	 Alignment		100.0	35	PDB header: transferase Chain: A: PDB Molecule: rmpa; PDBTitle: the crystal structure of a putative pts iia(ptxa) from streptococcus2 mutans
5	c2oqtD_	 Alignment		100.0	29	PDB header: transferase Chain: D: PDB Molecule: hypothetical protein spy0176; PDBTitle: structural genomics, the crystal structure of a putative2 pts iia domain from streptococcus pyogenes m1 gas
6	d1a3aa_	 Alignment		100.0	25	Fold: Phoshotransferase/anion transport protein Superfamily: Phoshotransferase/anion transport protein Family: IIA domain of mannitol-specific and ntr phosphotransferase EII
7	d1xiza_	 Alignment		100.0	17	Fold: Phoshotransferase/anion transport protein Superfamily: Phoshotransferase/anion transport protein Family: IIA domain of mannitol-specific and ntr phosphotransferase EII
8	c3urrB_	 Alignment		99.9	19	PDB header: transferase Chain: B: PDB Molecule: pts iia-like nitrogen-regulatory protein ptsn; PDBTitle: structure of pts iia-like nitrogen-regulatory protein ptsn (bth_i0484)2 (ptsn)
9	d1a6ja_	 Alignment		99.9	20	Fold: Phoshotransferase/anion transport protein Superfamily: Phoshotransferase/anion transport protein Family: IIA domain of mannitol-specific and ntr phosphotransferase EII
10	c2a0iA_	 Alignment		99.9	14	PDB header: transferase Chain: A: PDB Molecule: pts system, nitrogen regulatory iia protein; PDBTitle: crystal structure of nitrogen regulatory protein iia-ntr from2 neisseria meningitidis
11	c1hynQ_	 Alignment		96.9	12	PDB header: membrane protein Chain: Q: PDB Molecule: band 3 anion transport protein; PDBTitle: crystal structure of the cytoplasmic domain of human2 erythrocyte band-3 protein

12	dlhynp_	Alignment		96.1	13	Fold: Phosphotransferase/anion transport protein Superfamily: Phosphotransferase/anion transport protein Family: Anion transport protein, cytoplasmic domain
13	dlgtda_	Alignment		22.2	10	Fold: PurS-like Superfamily: PurS-like Family: PurS subunit of FGAM synthetase
14	dlusa1	Alignment		19.9	9	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: COMT-like
15	dlvq3a_	Alignment		15.9	19	Fold: PurS-like Superfamily: PurS-like Family: PurS subunit of FGAM synthetase
16	dla3xa3	Alignment		14.6	7	Fold: Pyruvate kinase C-terminal domain-like Superfamily: PK C-terminal domain-like Family: Pyruvate kinase, C-terminal domain
17	d2avda1	Alignment		13.3	13	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: COMT-like
18	cleptB_	Alignment		12.5	14	PDB header: hydrolase (serine protease) Chain: B: PDB Molecule: porcine e-trypsin; PDBTitle: refined 1.8 angstroms resolution crystal structure of 2 porcine epsilon-trypsin
19	c3ntvB_	Alignment		10.7	20	PDB header: transferase Chain: B: PDB Molecule: mw1564 protein; PDBTitle: crystal structure of a putative caffeoyl-coa o-methyltransferase from 2 staphylococcus aureus
20	d1vlfm2	Alignment		10.3	20	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
21	c2hntE_	Alignment	not modelled	9.6	25	PDB header: serine protease Chain: E: PDB Molecule: gamma-thrombin; PDBTitle: crystallographic structure of human gamma-thrombin
22	c1tmoA_	Alignment	not modelled	9.4	20	PDB header: oxidoreductase Chain: A: PDB Molecule: trimethylamine n-oxide reductase; PDBTitle: trimethylamine n-oxide reductase from shewanella massilia
23	d2i5ua1	Alignment	not modelled	9.2	21	Fold: DnaD domain-like Superfamily: DnaD domain-like Family: DnaD domain
24	dlg8ka2	Alignment	not modelled	9.0	13	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
25	c2dxbR_	Alignment	not modelled	8.9	11	PDB header: hydrolase Chain: R: PDB Molecule: thiocyanate hydrolase subunit gamma; PDBTitle: recombinant thiocyanate hydrolase comprising partially-modified cobalt2 centers
26	c2fugC_	Alignment	not modelled	8.7	18	PDB header: oxidoreductase Chain: C: PDB Molecule: nadh-quinone oxidoreductase chain 3; PDBTitle: crystal structure of the hydrophilic domain of respiratory complex i2 from thermus thermophilus
27	d2jioa2	Alignment	not modelled	7.6	13	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
28	d1dmra2	Alignment	not modelled	7.5	20	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
						PDB header: oxidoreductase

29	c1h5nC_	Alignment	not modelled	7.5	20	Chain: C: PDB Molecule: dmsO reductase; PDBTitle: dmsO reductase modified by the presence of dms and air
30	c2zw2B_	Alignment	not modelled	7.4	6	PDB header: ligase Chain: B: PDB Molecule: putative uncharacterized protein sts178; PDBTitle: crystal structure of formylglycinamide ribonucleotide amidotransferase2 iiii from sulfolobus tokodaii (stpsrs)
31	c1g8jC_	Alignment	not modelled	7.1	13	PDB header: oxidoreductase Chain: C: PDB Molecule: arsenite oxidase; PDBTitle: crystal structure analysis of arsenite oxidase from2 alcaligenes faecalis
32	d1tmoa2	Alignment	not modelled	7.0	20	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
33	c1vlfQ_	Alignment	not modelled	7.0	20	PDB header: oxidoreductase Chain: Q: PDB Molecule: pyrogallol hydroxytransferase large subunit; PDBTitle: crystal structure of pyrogallol-phloroglucinol2 transhydroxylase from pelobacter acidigallici complexed3 with inhibitor 1,2,4,5-tetrahydroxy-benzene
34	d1uhwa_	Alignment	not modelled	7.0	14	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: DEP domain
35	d1e0ta3	Alignment	not modelled	6.9	14	Fold: Pyruvate kinase C-terminal domain-like Superfamily: PK C-terminal domain-like Family: Pyruvate kinase, C-terminal domain
36	d1sxjb1	Alignment	not modelled	6.7	13	Fold: post-AAA+ oligomerization domain-like Superfamily: post-AAA+ oligomerization domain-like Family: DNA polymerase III clamp loader subunits, C-terminal domain
37	d1eu1a2	Alignment	not modelled	6.7	27	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
38	c2yx5A_	Alignment	not modelled	6.6	17	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: upf0062 protein mj1593; PDBTitle: crystal structure of methanocaldococcus jannaschii purs, one of the2 subunits of formylglycinamide ribonucleotide amidotransferase in the3 purine biosynthetic pathway
39	c3c3pC_	Alignment	not modelled	6.5	13	PDB header: transferase Chain: C: PDB Molecule: methyltransferase; PDBTitle: crystal structure of a methyltransferase (np_951602.1) from geobacter2 sulfurreducens at 1.90 a resolution
40	c3e3vA_	Alignment	not modelled	6.5	7	PDB header: recombination Chain: A: PDB Molecule: regulatory protein recx; PDBTitle: crystal structure of recx from lactobacillus salivarius
41	d2csoa1	Alignment	not modelled	6.3	11	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: DEP domain
42	d1kqfa2	Alignment	not modelled	6.3	20	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
43	d1v3fa_	Alignment	not modelled	6.1	18	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: DEP domain
44	d2iv2x2	Alignment	not modelled	6.1	27	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
45	d1ogya2	Alignment	not modelled	6.0	13	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
46	c1h0hA_	Alignment	not modelled	6.0	7	PDB header: dehydrogenase Chain: A: PDB Molecule: formate dehydrogenase (large subunit); PDBTitle: tungsten containing formate dehydrogenase from2 desulfovibrio gigas
47	c3cbgA_	Alignment	not modelled	6.0	16	PDB header: transferase Chain: A: PDB Molecule: o-methyltransferase; PDBTitle: functional and structural characterization of a2 cationdependent o-methyltransferase from the3 cyanobacterium synechocystis sp. strain pcc 6803
48	c1eu1A_	Alignment	not modelled	5.9	27	PDB header: oxidoreductase Chain: A: PDB Molecule: dimethyl sulfoxide reductase; PDBTitle: the crystal structure of rhodobacter sphaeroides dimethylsulfoxide2 reductase reveals two distinct molybdenum coordination environments.
49	d1y5ia2	Alignment	not modelled	5.9	20	Fold: Formate dehydrogenase/DMSO reductase, domains 1-3 Superfamily: Formate dehydrogenase/DMSO reductase, domains 1-3 Family: Formate dehydrogenase/DMSO reductase, domains 1-3
50	c1ogyA_	Alignment	not modelled	5.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: periplasmic nitrate reductase; PDBTitle: crystal structure of the heterodimeric nitrate reductase2 from rhodobacter sphaeroides
51	c1kqgA_	Alignment	not modelled	5.9	20	PDB header: oxidoreductase Chain: A: PDB Molecule: formate dehydrogenase, nitrate-inducible, major subunit; PDBTitle: formate dehydrogenase n from e. coli
52	d2cs7a1	Alignment	not modelled	5.7	19	Fold: IL8-like Superfamily: PhtA domain-like Family: PhtA domain-like
53	c3dfgA_	Alignment	not modelled	5.6	17	PDB header: recombination Chain: A: PDB Molecule: regulatory protein recx; PDBTitle: crystal structure of recx: a potent inhibitor protein of2 reca from xanthomonas campestris
						PDB header: oxidoreductase

54	c2ivfA_	Alignment	not modelled	5.6	13	Chain: A: PDB Molecule: ethylbenzene dehydrogenase alpha-subunit; PDBTitle: ethylbenzene dehydrogenase from aromatoleum aromaticum
55	d2g50a3	Alignment	not modelled	5.6	25	Fold: Pyruvate kinase C-terminal domain-like Superfamily: PK C-terminal domain-like Family: Pyruvate kinase, C-terminal domain
56	c2e7zA_	Alignment	not modelled	5.5	27	PDB header: lyase Chain: A: PDB Molecule: acetylene hydratase ahy; PDBTitle: acetylene hydratase from pelobacter acetylenicus
57	d1w4ma_	Alignment	not modelled	5.5	11	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: DEP domain