

Phyre²

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Description	P0AAL0
Date	Thu Jan 5 11:13:12 GMT 2012
Unique Job ID	5510e533684417ab

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2ivfB_	Alignment		99.8	36	PDB header: oxidoreductase Chain: B; PDB Molecule: ethylbenzene dehydrogenase beta-subunit; PDBTitle: ethylbenzene dehydrogenase from aromatoleum aromaticum
2	c1kqfB_	Alignment		99.7	25	PDB header: oxidoreductase Chain: B; PDB Molecule: formate dehydrogenase, nitrate-inducible, iron-sulfur PDBTitle: formate dehydrogenase n from e. coli
3	d1y5ib1	Alignment		99.7	39	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
4	d1kqfb1	Alignment		99.7	26	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
5	c2vpyB_	Alignment		99.6	20	PDB header: oxidoreductase Chain: B; PDB Molecule: nrfc protein; PDBTitle: polysulfide reductase with bound quinone inhibitor,2 pentachlorophenol (pcp)
6	d1h0hb_	Alignment		99.6	21	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
7	d1vlfn2	Alignment		99.6	12	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
8	c1ti2F_	Alignment		99.6	13	PDB header: oxidoreductase Chain: F; PDB Molecule: pyrogallol hydroxytransferase small subunit; PDBTitle: crystal structure of pyrogallol-phloroglucinol2 transhydroxylase from pelobacter acidigallici
9	c2fugG_	Alignment		99.5	22	PDB header: oxidoreductase Chain: G; PDB Molecule: nadh-quinone oxidoreductase chain 9; PDBTitle: crystal structure of the hydrophilic domain of respiratory complex i2 from thermus thermophilus
10	d2fug91	Alignment		99.5	22	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
11	c1gthD_	Alignment		99.4	31	PDB header: oxidoreductase Chain: D; PDB Molecule: dihydropyrimidine dehydrogenase; PDBTitle: dihydropyrimidine dehydrogenase (dpd) from pig, ternary2 complex with nadph and 5-iodouracil

12	d1xera_	Alignment		99.4	34	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Archaeal ferredoxins
13	c2gmaA_	Alignment		99.3	23	PDB header: oxidoreductase Chain: A: PDB Molecule: electron transfer flavoprotein-ubiquinone PDBTitle: structure of porcine electron transfer flavoprotein-2 ubiquinone oxidoreductase in complexed with ubiquinone
14	d1jb0c_	Alignment		99.3	22	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
15	d1gtea5	Alignment		99.3	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
16	d1hfel2	Alignment		99.2	27	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
17	d1rgva_	Alignment		99.2	34	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
18	d1dura_	Alignment		99.2	45	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
19	d3c8ya3	Alignment		99.2	29	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
20	d1bc6a_	Alignment		99.2	43	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
21	d2c42a5	Alignment	not modelled	99.2	21	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
22	d1h98a_	Alignment	not modelled	99.1	37	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
23	c2zvsB_	Alignment	not modelled	99.1	37	PDB header: electron transport Chain: B: PDB Molecule: uncharacterized ferredoxin-like protein yfhl; PDBTitle: crystal structure of the 2[4fe-4s] ferredoxin from escherichia coli
24	c2c3yA_	Alignment	not modelled	99.1	21	PDB header: oxidoreductase Chain: A: PDB Molecule: pyruvate-ferredoxin oxidoreductase; PDBTitle: crystal structure of the radical form of 2 pyruvate:ferredoxin oxidoreductase from desulfovibrio3 africanus
25	d2gma3	Alignment		99.1	19	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: ETF-QO domain-like
26	d2fdna_	Alignment	not modelled	99.1	49	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
27	d1fcaa_	Alignment	not modelled	99.1	42	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins

28	d1bla_	Alignment	not modelled	99.0	38	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
29	c3gyxJ_	Alignment	not modelled	98.9	22	PDB header: oxidoreductase Chain: J: PDB Molecule: adenylylsulfate reductase; PDBTitle: crystal structure of adenylylsulfate reductase from2 desulfovibrio gigas
30	d3c7bb1	Alignment	not modelled	98.9	22	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
31	d7fd1a_	Alignment	not modelled	98.9	23	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
32	d1jnrB_	Alignment	not modelled	98.8	24	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
33	c1hfeL_	Alignment	not modelled	98.7	23	PDB header: hydrogenase Chain: L: PDB Molecule: protein (fe-only hydrogenase (e.c.1.18.99.1) PDBTitle: 1.6 a resolution structure of the fe-only hydrogenase from2 desulfovibrio desulfuricans
34	d1clfA_	Alignment	not modelled	98.7	26	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
35	c1gx7A_	Alignment	not modelled	98.6	23	PDB header: oxidoreductase Chain: A: PDB Molecule: periplasmic [fe] hydrogenase large subunit; PDBTitle: best model of the electron transfer complex between2 cytochrome c3 and [fe]-hydrogenase
36	c2fg0A_	Alignment	not modelled	98.6	26	PDB header: electron transport Chain: A: PDB Molecule: ferredoxin; PDBTitle: structure of the 2[4fe-4s] ferredoxin from pseudomonas2 aeruginosa
37	d1sj1a_	Alignment	not modelled	98.5	36	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
38	c2v2kB_	Alignment	not modelled	98.5	22	PDB header: electron transport Chain: B: PDB Molecule: ferredoxin; PDBTitle: the crystal structure of fdxa, a 7fe ferredoxin from2 mycobacterium smegmatis
39	d1vjwa_	Alignment	not modelled	98.5	24	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
40	d2fug34	Alignment	not modelled	98.4	17	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
41	d1iqza_	Alignment	not modelled	98.4	19	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
42	c1dwIA_	Alignment	not modelled	98.3	16	PDB header: electron transfer Chain: A: PDB Molecule: ferredoxin i; PDBTitle: the ferredoxin-cytochrome complex using heteronuclear nmr2 and docking simulation
43	c2v4jE_	Alignment	not modelled	98.3	18	PDB header: oxidoreductase Chain: E: PDB Molecule: sulfite reductase, dissimilatory-type subunit PDBTitle: the crystal structure of desulfovibrio vulgaris2 dissimilatory sulfite reductase bound to dsrc provides3 novel insights into the mechanism of sulfate respiration
44	c3c7bE_	Alignment	not modelled	98.3	15	PDB header: oxidoreductase Chain: E: PDB Molecule: sulfite reductase, dissimilatory-type subunit beta; PDBTitle: structure of the dissimilatory sulfite reductase from archaeoglobus2 fulgidus
45	c3bk7A_	Alignment	not modelled	98.2	33	PDB header: hydrolyase/translation Chain: A: PDB Molecule: abc transporter atp-binding protein; PDBTitle: structure of the complete abc1/rnase-l inhibitor protein2 from pyrococcus abyssi
46	c1c4cA_	Alignment	not modelled	98.2	28	PDB header: oxidoreductase Chain: A: PDB Molecule: protein (fe-only hydrogenase); PDBTitle: binding of exogenously added carbon monoxide at the active2 site of the fe-only hydrogenase (cpi) from clostridium pasteurianum
47	c2fugC_	Alignment	not modelled	98.0	13	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
48	d2bs2b1	Alignment	not modelled	97.7	28	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydrogenase iron-sulfur protein, C-terminal domain
49	c3c7bA_	Alignment	not modelled	97.7	15	PDB header: oxidoreductase Chain: A: PDB Molecule: sulfite reductase, dissimilatory-type subunit alpha; PDBTitle: structure of the dissimilatory sulfite reductase from archaeoglobus2 fulgidus
50	d1fxra_	Alignment	not modelled	97.7	9	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
51	c2v4jA_	Alignment	not modelled	97.3	19	PDB header: oxidoreductase Chain: A: PDB Molecule: sulfite reductase, dissimilatory-type subunit PDBTitle: the crystal structure of desulfovibrio vulgaris2 dissimilatory sulfite reductase bound to dsrc provides3 novel insights into the mechanism of sulfate respiration
						PDB header: oxidoreductase

52	c3cf4A		Alignment	not modelled	97.2	19	Chain: A: PDB Molecule: acetyl-coa decarboxylase/synthase alpha subunit; PDBTitle: structure of the codh component of the m. barkeri acds complex
53	c1nekB		Alignment	not modelled	97.1	21	PDB header: oxidoreductase/electron transport Chain: B: PDB Molecule: succinate dehydrogenase iron-sulfur protein; PDBTitle: complex ii (succinate dehydrogenase) from e. coli with2 ubiquinone bound
54	d1kf6b1		Alignment	not modelled	97.0	25	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydogenase iron-sulfur protein, C-terminal domain
55	d1nekbl		Alignment	not modelled	96.9	22	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydogenase iron-sulfur protein, C-terminal domain
56	c2b76N		Alignment	not modelled	96.9	25	PDB header: oxidoreductase Chain: N: PDB Molecule: fumarate reductase iron-sulfur protein; PDBTitle: e. coli quinol fumarate reductase frda e49q mutation
57	c2bs2E		Alignment	not modelled	96.9	23	PDB header: oxidoreductase Chain: E: PDB Molecule: quinol-fumarate reductase iron-sulfur subunit b; PDBTitle: quinol:fumarate reductase from wolinella succinogenes
58	c2h89B		Alignment	not modelled	96.6	19	PDB header: oxidoreductase Chain: B: PDB Molecule: succinate dehydrogenase ip subunit; PDBTitle: avian respiratory complex ii with malonate bound
59	d2v4jb1		Alignment	not modelled	92.9	26	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
60	c2vdcl		Alignment	not modelled	89.3	20	PDB header: oxidoreductase Chain: I: PDB Molecule: glutamate synthase [nadph] small chain; PDBTitle: the 9.5 a resolution structure of glutamate synthase from2 cryo-electron microscopy and its oligomerization behavior3 in solution: functional implications.
61	d1fxda		Alignment	not modelled	70.7	19	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
62	d2v4ja1		Alignment	not modelled	68.9	24	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
63	d3c7ba1		Alignment	not modelled	65.4	21	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
64	d1gtea1		Alignment	not modelled	62.8	15	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Dihydropyrimidine dehydrogenase, N-terminal domain
65	c2pq4B		Alignment	not modelled	17.0	30	PDB header: chaperone/oxidoreductase Chain: B: PDB Molecule: periplasmic nitrate reductase precursor; PDBTitle: nmr solution structure of napd in complex with napa1-352 signal peptide
66	c3gliP		Alignment	not modelled	13.7	21	PDB header: transferase/dna Chain: P: PDB Molecule: dna polymerase iii subunit psi; PDBTitle: crystal structure of the e. coli clamp loader bound to2 primer-template dna and psi peptide
67	c2htfA		Alignment	not modelled	13.2	46	PDB header: transferase Chain: A: PDB Molecule: dna polymerase mu; PDBTitle: the solution structure of the brct domain from human2 polymerase reveals homology with the tdt brct domain
68	c3gliO		Alignment	not modelled	12.7	21	PDB header: transferase/dna Chain: O: PDB Molecule: dna polymerase iii subunit psi; PDBTitle: crystal structure of the e. coli clamp loader bound to2 primer-template dna and psi peptide
69	d1dqqa3		Alignment	not modelled	11.1	41	Fold: Nucleotide-binding domain Superfamily: Nucleotide-binding domain Family: N-terminal domain of adrenodoxin reductase-like
70	c2e76D		Alignment	not modelled	9.7	30	PDB header: photosynthesis Chain: D: PDB Molecule: cytochrome b6-f complex iron-sulfur subunit; PDBTitle: crystal structure of the cytochrome b6f complex with tridecyl-2 stigmatellin (tds) from m.laminosus
71	c2bpkB		Alignment	not modelled	7.7	12	PDB header: oxidoreductase Chain: B: PDB Molecule: sulfite:cytochrome c oxidoreductase subunit b; PDBTitle: sulfite dehydrogenase from starkeya novella
72	c3k30B		Alignment	not modelled	7.5	28	PDB header: oxidoreductase Chain: B: PDB Molecule: histamine dehydrogenase; PDBTitle: histamine dehydrogenase from nocardiodes simplex
73	c1n10A		Alignment	not modelled	7.3	25	PDB header: allergen Chain: A: PDB Molecule: pollen allergen phl p 1; PDBTitle: crystal structure of phl p 1, a major timothy grass pollen allergen
74	c2fynO		Alignment	not modelled	6.9	30	PDB header: oxidoreductase Chain: O: PDB Molecule: ubiquinol-cytochrome c reductase iron-sulfur PDBTitle: crystal structure analysis of the double mutant rhodobacter2 sphaeroides bcl complex