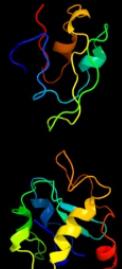
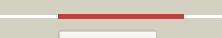
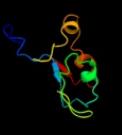
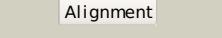
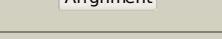
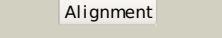
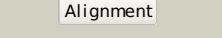


Phyre²

Email	i.a.kelley@imperial.ac.uk
Description	P0AAJ1
Date	Thu Jan 5 11:13:03 GMT 2012
Unique Job ID	512fa5c745f520ba

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2ivfB_	Alignment		100.0	41	PDB header: oxidoreductase Chain: B; PDB Molecule: ethylbenzene dehydrogenase beta-subunit; PDBTitle: ethylbenzene dehydrogenase from <i>aromatoleum aromaticum</i>
2	c1ti2F_	Alignment		100.0	25	PDB header: oxidoreductase Chain: F; PDB Molecule: pyrogallol hydroxytransferase small subunit; PDBTitle: crystal structure of pyrogallol-phloroglucinol 2 transhydroxylase from <i>pelobacter acidigallici</i>
3	c2vpyB_	Alignment		100.0	34	PDB header: oxidoreductase Chain: B; PDB Molecule: nrfc protein; PDBTitle: polysulfide reductase with bound quinone inhibitor, 2 pentachlorophenol (pcp)
4	d1kqfb1	Alignment		100.0	30	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
5	c1kqfB_	Alignment		100.0	29	PDB header: oxidoreductase Chain: B; PDB Molecule: formate dehydrogenase, nitrate-inducible, iron-sulfur PDBTitle: formate dehydrogenase n from <i>e. coli</i>
6	d1y5ib1	Alignment		100.0	35	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
7	d1vlfn2	Alignment		100.0	24	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
8	d1h0hb_	Alignment		100.0	27	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
9	d2fug91	Alignment		99.4	35	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
10	c2fugG_	Alignment		99.4	35	PDB header: oxidoreductase Chain: G; PDB Molecule: nadh-quinone oxidoreductase chain 9; PDBTitle: crystal structure of the hydrophilic domain of respiratory complex i2 from <i>thermus thermophilus</i>
11	c2zvsB_	Alignment		99.4	19	PDB header: electron transport Chain: B; PDB Molecule: uncharacterized ferredoxin-like protein yfhl; PDBTitle: crystal structure of the 2[4fe-4s] ferredoxin from <i>escherichia coli</i>

12	d1xera_			99.3	29	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Archaeal ferredoxins
13	c2v2kB_			99.3	20	PDB header: electron transport Chain: B: PDB Molecule: ferredoxin; PDBTitle: the crystal structure of fdxa, a 7fe ferredoxin from2 mycobacterium smegmatis
14	d1hfeL2			99.3	32	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
15	c3gyxl_			99.3	29	PDB header: oxidoreductase Chain: J: PDB Molecule: adenylylsulfate reductase; PDBTitle: crystal structure of adenylylsulfate reductase from2 desulfovibrio gigas
16	d1bla_			99.2	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
17	d7fd1a_			99.2	29	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
18	d1jnrB_			99.2	20	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
19	c2fgoa_			99.2	24	PDB header: electron transport Chain: A: PDB Molecule: ferredoxin; PDBTitle: structure of the 2[4fe-4s] ferredoxin from pseudomonas2 aeruginosa
20	c1gthD_			99.2	32	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydropyrimidine dehydrogenase; PDBTitle: dihydropyrimidine dehydrogenase (dpd) from pig, ternary2 complex with nadph and 5-iodouracil
21	d3c8ya3		not modelled	99.2	27	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
22	d1h98a_		not modelled	99.1	27	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
23	d1bc6a_		not modelled	99.1	34	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
24	d1jb0c_		not modelled	99.1	37	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
25	d1rgva_		not modelled	99.1	18	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
26	d2c42a5		not modelled	99.1	17	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
27	c1hfeL_		not modelled	99.1	33	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
28	d1gtea5		not modelled	99.1	30	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
						PDB header: oxidoreductase

29	c1gx7A		Alignment	not modelled	99.1	38	Chain: A; PDB Molecule: periplasmic [fe] hydrogenase large subunit; PDBTitle: best model of the electron transfer complex between cytochrome c3 and [fe]-hydrogenase
30	d3c7bb1		Alignment	not modelled	99.1	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
31	c2gmhA		Alignment	not modelled	99.1	20	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
32	d2fdna		Alignment	not modelled	99.0	30	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
33	d1dura		Alignment	not modelled	99.0	30	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
34	d1fcaa		Alignment	not modelled	99.0	30	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
35	c2c3yA		Alignment	not modelled	99.0	26	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
36	d1iqza		Alignment	not modelled	98.9	23	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
37	d2gmha3		Alignment	not modelled	98.9	18	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: ETF-QO domain-like
38	d1clfA		Alignment	not modelled	98.9	28	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
39	d2fug34		Alignment	not modelled	98.9	28	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
40	d1vjwa		Alignment	not modelled	98.8	35	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
41	c1c4cA		Alignment	not modelled	98.8	23	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 clostridium3 pasteurianum
42	d1sj1a		Alignment	not modelled	98.7	24	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
43	c1dwIA		Alignment	not modelled	98.7	27	PDB header: electron transfer Chain: A; PDB Molecule: ferredoxin i; PDBTitle: the ferredoxin-cytochrome complex using heteronuclear nmr2 and docking simulation
44	d1fxra		Alignment	not modelled	98.7	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
45	c3c7bE		Alignment	not modelled	98.6	19	PDB header: oxidoreductase Chain: E; PDB Molecule: sulfite reductase, dissimilatory-type subunit beta; PDBTitle: structure of the dissimilatory sulfite reductase from archaeoglobus2 fulgidus
46	c2fugC		Alignment	not modelled	98.4	26	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
47	c2v4jE		Alignment	not modelled	98.3	19	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
48	c3bk7A		Alignment	not modelled	98.2	32	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
49	c2v4jA		Alignment	not modelled	98.1	17	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
50	c3c7bA		Alignment	not modelled	98.0	18	PDB header: oxidoreductase Chain: A; PDB Molecule: sulfite reductase, dissimilatory-type subunit alpha; PDBTitle: structure of the dissimilatory sulfite reductase from archaeoglobus2 fulgidus
51	d2bs2b1		Alignment	not modelled	98.0	20	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydrogenase iron-sulfur protein, C-terminal domain
52	d1kf6b1		Alignment	not modelled	97.9	19	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydrogenase iron-sulfur protein, C-terminal domain
53	c2bs2E		Alignment	not modelled	97.7	20	PDB header: oxidoreductase Chain: E; PDB Molecule: quinol-fumarate reductase iron-sulfur subunit b;

						PDBTitle: quinol:fumarate reductase from wolinella succinogenes
54	d1nekb1		Alignment	not modelled	97.6	17 Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydrogenase iron-sulfur protein, C-terminal domain
55	c2h89B		Alignment	not modelled	97.3	15 PDB header: oxidoreductase Chain: B: PDB Molecule: succinate dehydrogenase ip subunit; PDBTitle: avian respiratory complex ii with malonate bound
56	c1nekB		Alignment	not modelled	97.2	19 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
57	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
58	d2v4jb1		Alignment	not modelled	96.9	24 Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
59	c3cf4A		Alignment	not modelled	95.5	33 PDB header: oxidoreductase Chain: A: PDB Molecule: acetyl-coa decarboxylase/synthase alpha subunit; PDBTitle: structure of the codh component of the m. barkeri acds complex
60	d2v4ja1		Alignment	not modelled	88.9	26 Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
61	d3c7ba1		Alignment	not modelled	88.4	29 Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
62	c2vdcl		Alignment	not modelled	84.0	22 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.
63	d1fxda		Alignment	not modelled	68.8	28 Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
64	d1gtea1		Alignment	not modelled	36.4	39 Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Dihydropyrimidine dehydrogenase, N-terminal domain
65	d1dqqa3		Alignment	not modelled	23.5	33 Fold: Nucleotide-binding domain Superfamily: Nucleotide-binding domain Family: N-terminal domain of adrenodoxin reductase-like
66	d1yuza2		Alignment	not modelled	16.0	24 Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
67	c2a91A		Alignment	not modelled	14.9	23 PDB header: signaling protein,transferase,membrane p Chain: A: PDB Molecule: receptor tyrosine-protein kinase erbB-2; PDBTitle: crystal structure of erbB2 domains 1-3
68	d1nnqa2		Alignment	not modelled	14.6	32 Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
69	c2dtgE		Alignment	not modelled	12.6	23 PDB header: hormone receptor/immune system Chain: E: PDB Molecule: insulin receptor; PDBTitle: insulin receptor (ir) ectodomain in complex with fab's
70	d2cs3a1		Alignment	not modelled	11.2	27 Fold: RING/U-box Superfamily: RING/U-box Family: Variant RING domain
71	c2eqpA		Alignment	not modelled	11.2	36 PDB header: transcription Chain: A: PDB Molecule: tumor necrosis factor receptor superfamily PDBTitle: solution structure of the stn_tnfrsf12a_tnfr domain of2 tumor necrosis factor receptor superfamily member 12a3 precursor
72	d1ncfb3		Alignment	not modelled	11.1	42 Fold: TNF receptor-like Superfamily: TNF receptor-like Family: TNF receptor-like
73	c2kn0A		Alignment	not modelled	10.9	36 PDB header: apoptosis Chain: A: PDB Molecule: fn14; PDBTitle: solution nmr structure of xenopus fn14
74	d1exta3		Alignment	not modelled	10.7	40 Fold: TNF receptor-like Superfamily: TNF receptor-like Family: TNF receptor-like
75	d1iko2		Alignment	not modelled	9.4	24 Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
76	c4aleT		Alignment	not modelled	9.3	27 PDB header: ribosome Chain: T: PDB Molecule: rpl24; PDBTitle: t thermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna, 5.8s rrna3 and proteins of molecule 1
77	c3iz5Z		Alignment	not modelled	8.6	13 PDB header: ribosome Chain: Z: PDB Molecule: 60s ribosomal protein l24 (l24e); PDBTitle: localization of the large subunit ribosomal proteins into a 5.5 a2 cryo-em map of triticum aestivum translating 80s ribosome
78	c1degD		Alignment	not modelled	8.5	23 PDB header: PDB COMPND:
79	c2I7xA		Alignment	not modelled	7.8	33 PDB header: viral protein Chain: A: PDB Molecule: envelope glycoprotein;

PDBTitle: crimean congo hemorrhagic fever gn zinc finger					
80	d1rutx1	Alignment	not modelled	7.8	31
					PDB header: Glucocorticoid receptor-like (DNA-binding domain) Chain: G: PDB Molecule: Glucocorticoid receptor-like (DNA-binding domain) Family: LIM domain
81	c3izcZ	Alignment	not modelled	7.8	7
					PDB header: ribosome Chain: Z: PDB Molecule: 60s ribosomal protein rpl24 (l24e); PDBTitle: localization of the large subunit ribosomal proteins into a 6.1 a2 cryo-em map of <i>saccharomyces cerevisiae</i> translating 80s ribosome
82	c1g8jC	Alignment	not modelled	7.6	12
					PDB header: oxidoreductase Chain: C: PDB Molecule: arsenite oxidase; PDBTitle: crystal structure analysis of arsenite oxidase from2 alcaligenes faecalis
83	c1s1iS	Alignment	not modelled	7.6	8
					PDB header: ribosome Chain: S: PDB Molecule: 60s ribosomal protein l24-a; PDBTitle: structure of the ribosomal 80s-eef2-sordarin complex from2 yeast obtained by docking atomic models for rna and protein3 components into a 11.7 a cryo-em map. this file, 1s1i,4 contains 60s subunit, the 40s ribosomal subunit is in file5 1s1h.
84	c2zkru	Alignment	not modelled	7.5	15
					PDB header: ribosomal protein/rna Chain: U: PDB Molecule: rna expansion segments es41; PDBTitle: structure of a mammalian ribosomal 60s subunit within an2 80s complex obtained by docking homology models of the rna3 and proteins into an 8.7 a cryo-em map
85	d1xu1r	Alignment	not modelled	7.4	28
					Fold: TNF receptor-like Superfamily: TNF receptor-like Family: BAFF receptor-like
86	d2r4qa1	Alignment	not modelled	6.7	30
					Fold: Phosphotyrosine protein phosphatases I-like Superfamily: PTS system IIB component-like Family: PTS system, Fructose specific IIB subunit-like
87	c2fugA	Alignment	not modelled	6.0	33
					PDB header: oxidoreductase Chain: A: PDB Molecule: nadh-quinone oxidoreductase chain 1; PDBTitle: crystal structure of the hydrophilic domain of respiratory complex i2 from <i>thermus thermophilus</i>
88	d1xuta	Alignment	not modelled	5.5	28
					Fold: TNF receptor-like Superfamily: TNF receptor-like Family: BAFF receptor-like
89	d1vgou1	Alignment	not modelled	5.4	33
					Fold: Glucocorticoid receptor-like (DNA-binding domain) Superfamily: Glucocorticoid receptor-like (DNA-binding domain) Family: Ribosomal protein L24e