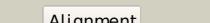
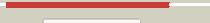
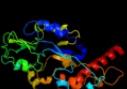
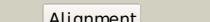
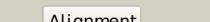
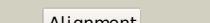
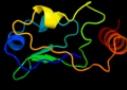
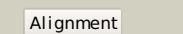
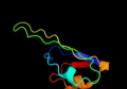
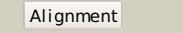
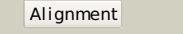


Phyre²

Email	i.a.kelley@imperial.ac.uk
Description	P0AAJ3
Date	Thu Jan 5 11:13:04 GMT 2012
Unique Job ID	2a8c1cc900434fd

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1kqfB_			100.0	100	PDB header: oxidoreductase Chain: B; PDB Molecule: formate dehydrogenase, nitrate-inducible, iron-sulfur PDBTitle: formate dehydrogenase n from e. coli
2	d1kqfb1			100.0	100	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
3	d1h0hb_			100.0	34	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
4	c2ivfB_			100.0	25	PDB header: oxidoreductase Chain: B; PDB Molecule: ethylbenzene dehydrogenase beta-subunit; PDBTitle: ethylbenzene dehydrogenase from aromatoleum aromaticum
5	c1ti2F_			100.0	22	PDB header: oxidoreductase Chain: F; PDB Molecule: pyrogallol hydroxytransferase small subunit; PDBTitle: crystal structure of pyrogallol-phloroglucinol 2 transhydroxylase from pelobacter acidigallici
6	c2vpyB_			100.0	33	PDB header: oxidoreductase Chain: B; PDB Molecule: nrfc protein; PDBTitle: polysulfide reductase with bound quinone inhibitor, 2 pentachlorophenol (pcp)
7	d1vlfn2			100.0	24	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
8	d1y5ib1			100.0	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
9	c3gyxJ_			99.4	26	PDB header: oxidoreductase Chain: J; PDB Molecule: adenylylsulfate reductase; PDBTitle: crystal structure of adenylylsulfate reductase from2 desulfovibrio gigas
10	d1xera_			99.4	26	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Archaeal ferredoxins
11	d1jnrB_			99.4	17	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins

12	c2fg0A_			99.4	24	PDB header: electron transport Chain: A: PDB Molecule: ferredoxin; PDBTitle: structure of the 2[4fe-4s] ferredoxin from pseudomonas2 aeruginosa
13	c2v2kB_			99.4	16	PDB header: electron transport Chain: B: PDB Molecule: ferredoxin; PDBTitle: the crystal structure of fdxa, a 7fe ferredoxin from2 mycobacterium smegmatis
14	d7fd1a_			99.4	22	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
15	c2zvsB_			99.4	17	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
16	d3c7bb1			99.4	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
17	d1h98a_			99.4	22	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
18	d1blua_			99.3	27	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
19	d2fug91			99.3	41	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
20	c2fugG_			99.3	41	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
21	d1rgva_		not modelled	99.3	22	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
22	d1bc6a_		not modelled	99.2	22	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
23	c1gthD_		not modelled	99.2	22	PDB header: oxidoreductase Chain: D: PDB Molecule: dihydropyrimidine dehydrogenase; PDBTitle: dihydropyrimidine dehydrogenase (dpd) from pig, ternary2 complex with nadph and 5-iodouracil
24	d1hfel2		not modelled	99.1	27	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
25	c1hfel_		not modelled	99.1	25	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
26	d2gmha3		not modelled	99.1	12	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: ETF-QO domain-like
27	c2gmhA_		not modelled	99.0	16	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
28	d1jb0c_		not modelled	99.0	29	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: 7-Fe ferredoxin
						PDB header: oxidoreductase

29	c2c3yA	Alignment	not modelled	99.0	26	Chain: A; PDB Molecule: pyruvate-ferredoxin oxidoreductase; PDBTitle: crystal structure of the radical form of 2 pyruvate:ferredoxin oxidoreductase from desulfovibrio3 africanus
30	d1gtea5	Alignment	not modelled	99.0	21	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
31	c3c7bE	Alignment	not modelled	99.0	15	PDB header: oxidoreductase Chain: E; PDB Molecule: sulfite reductase, dissimilatory-type subunit beta; PDBTitle: structure of the dissimilatory sulfite reductase from archaeoglobus2 fulgidus
32	d1clfa	Alignment	not modelled	98.9	28	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
33	d1dura	Alignment	not modelled	98.9	30	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
34	d2c42a5	Alignment	not modelled	98.9	24	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
35	d1fcaa	Alignment	not modelled	98.9	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
36	d3c8ya3	Alignment	not modelled	98.9	21	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
37	c1gx7A	Alignment	not modelled	98.8	30	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
38	d2fug34	Alignment	not modelled	98.8	21	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
39	d1sj1a	Alignment	not modelled	98.8	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
40	d2fdna	Alignment	not modelled	98.8	25	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Short-chain ferredoxins
41	d1vjwa	Alignment	not modelled	98.8	33	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
42	c1dwIA	Alignment	not modelled	98.8	25	PDB header: electron transfer Chain: A; PDB Molecule: ferredoxin i; PDBTitle: the ferredoxin-cytochrome complex using heteronuclear nmr2 and docking simulation
43	d1fxra	Alignment	not modelled	98.7	23	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
44	c1c4cA	Alignment	not modelled	98.7	18	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
45	c3bk7A	Alignment	not modelled	98.7	35	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	d1iqza	Alignment	not modelled	98.6	29	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
47	c2fugC	Alignment	not modelled	98.6	19	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	c2v4jE	Alignment	not modelled	98.6	21	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
49	c3c7bA	Alignment	not modelled	98.2	18	PDB header: oxidoreductase Chain: A; PDB Molecule: sulfite reductase, dissimilatory-type subunit alpha; PDBTitle: structure of the dissimilatory sulfite reductase from archaeoglobus2 fulgidus
50	d1kqfb2	Alignment	not modelled	98.2	100	Fold: Single transmembrane helix Superfamily: Iron-sulfur subunit of formate dehydrogenase N, transmembrane anchor Family: Iron-sulfur subunit of formate dehydrogenase N, transmembrane anchor
51	c2v4jA	Alignment	not modelled	98.2	21	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
52	d1kf6b1	Alignment	not modelled	98.0	21	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydrogenase iron-sulfur protein, C-terminal domain
53	d2bs2b1	Alignment	not modelled	97.9	20	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydrogenase iron-sulfur

						protein, C-terminal domain
54	d1nekB1		Alignment	not modelled	97.7	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Fumarate reductase/Succinate dehydrogenase iron-sulfur protein, C-terminal domain
55	c3cf4A_		Alignment	not modelled	97.7	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
56	c1nekB_		Alignment	not modelled	97.6	PDB header: oxidoreductase/electron transport Chain: B: PDB Molecule: succinate dehydrogenase iron-sulfur protein; PDBTitle: complex ii (succinate dehydrogenase) from e. coli with2 ubiqinone bound
57	c2b76N_		Alignment	not modelled	97.5	PDB header: oxidoreductase Chain: N: PDB Molecule: fumarate reductase iron-sulfur protein; PDBTitle: e. coli quinol fumarate reductase frda e49q mutation
58	c2bs2E_		Alignment	not modelled	97.3	PDB header: oxidoreductase Chain: E: PDB Molecule: quinol-fumarate reductase iron-sulfur subunit b; PDBTitle: quinol:fumarate reductase from wolinella succinogenes
59	c2h89B_		Alignment	not modelled	97.2	PDB header: oxidoreductase Chain: B: PDB Molecule: succinate dehydrogenase ip subunit; PDBTitle: avian respiratory complex ii with malonate bound
60	d2v4jb1		Alignment	not modelled	97.2	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
61	c2vdcl_		Alignment	not modelled	94.7	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.
62	d2v4ja1		Alignment	not modelled	90.9	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
63	d3c7ba1		Alignment	not modelled	90.3	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Ferredoxin domains from multidomain proteins
64	d1gtea1		Alignment	not modelled	85.6	Fold: Globin-like Superfamily: alpha-helical ferredoxin Family: Dihydropyrimidine dehydrogenase, N-terminal domain
65	d1fxda_		Alignment	not modelled	72.3	Fold: Ferredoxin-like Superfamily: 4Fe-4S ferredoxins Family: Single 4Fe-4S cluster ferredoxin
66	c2kncA_		Alignment	not modelled	45.2	PDB header: cell adhesion Chain: A: PDB Molecule: integrin alpha-iib; PDBTitle: platelet integrin alfafaiib-beta3 transmembrane-cytoplasmic2 heterocomplex
67	d2r4qa1		Alignment	not modelled	44.4	Fold: Phosphotyrosine protein phosphatases I-like Superfamily: PTS system IIB component-like Family: PTS system, Fructose specific IIB subunit-like
68	c2a91A_		Alignment	not modelled	25.0	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
69	c1moxB_		Alignment	not modelled	22.1	PDB header: transferase/growth factor Chain: B: PDB Molecule: epidermal growth factor receptor; PDBTitle: crystal structure of human epidermal growth factor receptor (residues2 1-501) in complex with tgf-alpha
70	c2dtgE_		Alignment	not modelled	20.6	PDB header: hormone receptor/immune system Chain: E: PDB Molecule: insulin receptor; PDBTitle: insulin receptor (ir) ectodomain in complex with fab's
71	c1g8jC_		Alignment	not modelled	19.4	PDB header: oxidoreductase Chain: C: PDB Molecule: arsenite oxidase; PDBTitle: crystal structure analysis of arsenite oxidase from2 alcaligenes faecalis
72	d1djqg3		Alignment	not modelled	18.3	Fold: Nucleotide-binding domain Superfamily: Nucleotide-binding domain Family: N-terminal domain of adrenodoxin reductase-like
73	c2fugA_		Alignment	not modelled	15.0	PDB header: oxidoreductase Chain: A: PDB Molecule: nahd-quinone oxidoreductase chain 1; PDBTitle: crystal structure of the hydrophilic domain of respiratory complex i2 from thermus thermophilus
74	d1yuza2		Alignment	not modelled	14.2	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
75	d2noca1		Alignment	not modelled	12.0	Fold: Dodecin subunit-like Superfamily: YdgH-like Family: YdgH-like
76	c2rhbD_		Alignment	not modelled	10.0	PDB header: viral protein Chain: D: PDB Molecule: uridylylate-specific endoribonuclease; PDBTitle: crystal structure of nsp15-h234a mutant- hexamer in2 asymmetric unit
77	c2a45L		Alignment	not modelled	9.9	PDB header: hydrolase/hydrolase inhibitor Chain: J: PDB Molecule: fibrinogen alpha chain; PDBTitle: crystal structure of the complex between thrombin and the central "e"2 region of fibrin
78	c2eqpA_		Alignment	not modelled	9.3	PDB header: transcription Chain: A: PDB Molecule: tumor necrosis factor receptor superfamily PDBTitle: solution structure of the stn_tnfrsf12a_tnfr domain of tumor necrosis factor receptor superfamily member 12a3 precursor
						Fold: Microbial ribonucleases

79	d1i0va_	Alignment	not modelled	9.2	20	Superfamily: Microbial ribonucleases Family: Fungal ribonucleases
80	d2r48a1	Alignment	not modelled	9.2	16	Fold: Phosphotyrosine protein phosphatases I-like Superfamily: PTS system IIB component-like Family: PTS system, Fructose specific IIB subunit-like
81	d1rdsa_	Alignment	not modelled	9.0	14	Fold: Microbial ribonucleases Superfamily: Microbial ribonucleases Family: Fungal ribonucleases
82	c1deqD_	Alignment	not modelled	9.0	29	PDB header: PDB COMPND:
83	c2a5hC_	Alignment	not modelled	8.3	22	PDB header: isomerase Chain: C: PDB Molecule: l-lysine 2,3-aminomutase; PDBTitle: 2.1 angstrom x-ray crystal structure of lysine-2,3-aminomutase from2 clostridium subterminale sb4, with michaelis analog (l-alpha-lysine3 external aldimine form of pyridoxal-5'-phosphate).
84	c1skzA_	Alignment	not modelled	8.0	19	PDB header: serine protease inhibitor Chain: A: PDB Molecule: antistasin; PDBTitle: protease inhibitor
85	c2dxbR_	Alignment	not modelled	7.6	35	PDB header: hydrolase Chain: R: PDB Molecule: thiocyanate hydrolase subunit gamma; PDBTitle: recombinant thiocyanate hydrolase comprising partially-modified cobalt2 centers
86	c2kn0A_	Alignment	not modelled	7.6	36	PDB header: apoptosis Chain: A: PDB Molecule: fn14; PDBTitle: solution nmr structure of xenopus fn14
87	c3gqhG_	Alignment	not modelled	7.4	29	PDB header: lyase Chain: G: PDB Molecule: co-type nitrile hydratase alpha subunit; PDBTitle: crystal structure of co-type nitrile hydratase beta-h71 from2 pseudomonas putida.
88	c1vbjB_	Alignment	not modelled	7.4	17	PDB header: oxidoreductase Chain: B: PDB Molecule: prostaglandin f synthase; PDBTitle: the crystal structure of prostaglandin f synthase from2 trypanosoma brucei
89	c2pmzS_	Alignment	not modelled	7.4	21	PDB header: translation, transferase Chain: S: PDB Molecule: dna-directed rna polymerase subunit d; PDBTitle: archaeal rna polymerase from sulfolobus solfataricus
90	c3ghgD_	Alignment	not modelled	7.3	32	PDB header: blood clotting Chain: D: PDB Molecule: fibrinogen alpha chain; PDBTitle: crystal structure of human fibrinogen
91	c2hr7B_	Alignment	not modelled	6.9	18	PDB header: transferase Chain: B: PDB Molecule: insulin receptor; PDBTitle: insulin receptor (domains 1-3)
92	c3iuufA_	Alignment	not modelled	6.8	22	PDB header: protein binding Chain: A: PDB Molecule: zinc finger protein ubi-d4; PDBTitle: crystal structure of the c2h2-type zinc finger domain of2 human ubi-d4
93	d2dmada3	Alignment	not modelled	6.7	50	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
94	d1nnqa2	Alignment	not modelled	6.4	38	Fold: Rubredoxin-like Superfamily: Rubredoxin-like Family: Rubredoxin
95	c3k7aM_	Alignment	not modelled	6.1	26	PDB header: transcription Chain: M: PDB Molecule: transcription initiation factor iib; PDBTitle: crystal structure of an rna polymerase ii-tpiib complex
96	d1kbsa_	Alignment	not modelled	5.6	29	Fold: Snake toxin-like Superfamily: Snake toxin-like Family: Snake venom toxins
97	d1x5wa2	Alignment	not modelled	5.4	50	Fold: beta-beta-alpha zinc fingers Superfamily: beta-beta-alpha zinc fingers Family: Classic zinc finger, C2H2
98	c1mljA_	Alignment	not modelled	5.4	21	PDB header: blood clotting Chain: A: PDB Molecule: fibrinogen alpha subunit; PDBTitle: crystal structure of native chicken fibrinogen with two different2 bound ligands
99	d2cs3a1	Alignment	not modelled	5.4	36	Fold: RING/U-box Superfamily: RING/U-box Family: Variant RING domain