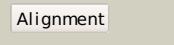
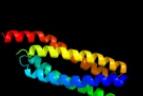
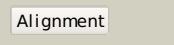
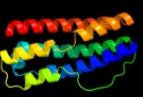
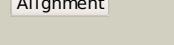
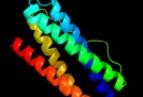
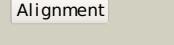
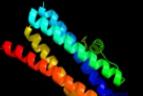
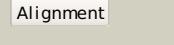
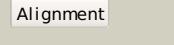
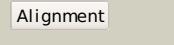


Phyre²

Email	i.a.kelley@imperial.ac.uk
Description	P21363
Date	Thu Jan 5 11:38:10 GMT 2012
Unique Job ID	38be226bf0cea8cd

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3hiuB_			100.0	38	PDB header: structural genomics, unknown function Chain: B; PDB Molecule: uncharacterized protein; PDBTitle: the crystal structure of protein (xcc3681) from xanthomonas2 campestris pv. campestris str. atcc 33913
2	d2gyqa1			100.0	23	Fold: Ferritin-like Superfamily: Ferritin-like Family: YciF-like
3	d2gs4a1			100.0	19	Fold: Ferritin-like Superfamily: Ferritin-like Family: YciF-like
4	c3oghB_			100.0	94	PDB header: structural genomics, unknown function Chain: B; PDB Molecule: protein ycie; PDBTitle: crystal structure of ycie protein from e. coli cft073, a member of2 ferritin-like superfamily of diiron-containing four-helix-bundle3 proteins
5	c3r2rA_			99.2	16	PDB header: metal binding protein Chain: A; PDB Molecule: bacterioferritin; PDBTitle: 1.65a resolution structure of iron soaked ftna from pseudomonas2 aeruginosa (ph 6.0)
6	d2htna1			99.2	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
7	c2qqyA_			99.1	16	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: sigma b operon; PDBTitle: crystal structure of ferritin like, diiron-carboxylate proteins from2 bacillus anthracis str. ames
8	c3gvyC_			99.1	12	PDB header: metal binding protein Chain: C; PDB Molecule: bacterioferritin; PDBTitle: crystal structure of bacterioferritin from r.sphaeroides
9	c3bknB_			99.1	12	PDB header: metal binding protein Chain: B; PDB Molecule: bacterioferritin; PDBTitle: the structure of mycobacterial bacterioferritin
10	c2vzbA_			99.1	15	PDB header: metal transport Chain: A; PDB Molecule: putative bacterioferritin-related protein; PDBTitle: a dodecameric thioferritin in the bacterial domain, characterization2 of the bacterioferritin-related protein from bacteroides fragilis
11	d1nf4a_			99.1	20	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin

12	d2fkza1			99.0	16	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
13	c3fvbB_			99.0	14	PDB header: metal binding protein Chain: B: PDB Molecule: bacterioferritin; PDBTitle: crystal structure of ferritin (bacterioferritin) from2 brucella melitensis
14	d1jgca_			98.9	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
15	d1j30a_			98.9	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
16	d1lkoal			98.9	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
17	d1yv1a1			98.8	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
18	c3qhbA_			98.8	16	PDB header: metal transport Chain: A: PDB Molecule: syberythrin; PDBTitle: crystal structure of oxidized syberythrin from cyanophora paradoxa
19	c2clbP_			98.6	12	PDB header: metal binding protein Chain: P: PDB Molecule: dps-like protein; PDBTitle: the structure of the dps-like protein from sulfobolus2 solfatarius reveals a bacterioferritin-like di-metal3 binding site within a dps-like dodecameric assembly
20	d1yuza1			98.6	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
21	c1dvba_		not modelled	98.6	15	PDB header: electron transport Chain: A: PDB Molecule: rubererythrin; PDBTitle: rubererythrin
22	c3e6sD_		not modelled	98.5	14	PDB header: oxidoreductase Chain: D: PDB Molecule: ferritin; PDBTitle: crystal structure of ferritin soaked with iron from pseudo-2 nitzschia multiseries
23	d2oh3a1		not modelled	98.5	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: AMB4284-like
24	d1nnqa1		not modelled	98.4	18	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
25	c1yuzB_		not modelled	98.4	15	PDB header: oxidoreductase Chain: B: PDB Molecule: nigerythrin; PDBTitle: partially reduced state of nigerythrin
26	d2fzfa1		not modelled	98.4	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
27	d1vlga_		not modelled	98.3	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
28	c2hr5B_		not modelled	98.3	19	PDB header: metal binding protein Chain: B: PDB Molecule: rubererythrin; PDBTitle: pf1283- rubererythrin from pyrococcus furiosus iron bound form
29	d1jiga_		not modelled	98.3	14	Fold: Ferritin-like Superfamily: Ferritin-like

					Family: Ferritin
30	d1o9ra_	Alignment	not modelled	98.2	9 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
31	c2c41K_	Alignment	not modelled	98.1	11 PDB header: iron-binding/oxidation protein Chain: K: PDB Molecule: dps family dna-binding stress response protein; PDBTitle: x-ray structure of dps from thermosynechococcus elongatus
32	d1ji5a_	Alignment	not modelled	98.1	12 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
33	d1tjoa_	Alignment	not modelled	98.1	12 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
34	c3iq1A_	Alignment	not modelled	98.0	14 PDB header: metal transport Chain: A: PDB Molecule: dps family protein; PDBTitle: crystal structure of dps protein from vibrio cholerae o1, a member of2 a broad superfamily of ferritin-like diiron-carboxylate proteins
35	d1krqa_	Alignment	not modelled	98.0	17 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
36	c2d5kC_	Alignment	not modelled	98.0	11 PDB header: metal binding protein Chain: C: PDB Molecule: dps family protein; PDBTitle: crystal structure of dps from staphylococcus aureus
37	c2vxxB_	Alignment	not modelled	98.0	11 PDB header: dna-binding protein Chain: B: PDB Molecule: starvation induced dna binding protein; PDBTitle: x-ray structure of dpsa from thermosynechococcus elongatus
38	c3qz3A_	Alignment	not modelled	98.0	12 PDB header: oxidoreductase Chain: A: PDB Molecule: ferritin; PDBTitle: the crystal structure of ferritin from vibrio cholerae o1 biovar el2 tor str. n16961
39	d1n1qa_	Alignment	not modelled	97.9	14 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
40	c2c6rA_	Alignment	not modelled	97.8	6 PDB header: dna-binding protein Chain: A: PDB Molecule: dna-binding stress response protein, dps family; PDBTitle: fe-soaked crystal structure of the dps92 from deinococcus2 radiodurans
41	c3bvkC_	Alignment	not modelled	97.8	14 PDB header: oxidoreductase Chain: C: PDB Molecule: ferritin; PDBTitle: structural basis for the iron uptake mechanism of helicobacter pylori2 ferritin
42	c2chpC_	Alignment	not modelled	97.8	10 PDB header: dna-binding protein Chain: C: PDB Molecule: metalloregulation dna-binding stress protein; PDBTitle: crystal structure of the dodecameric ferritin mrga from2 b.subtilis 168
43	c3qd8M_	Alignment	not modelled	97.8	15 PDB header: metal binding protein Chain: M: PDB Molecule: probable bacterioferritin bfrb; PDBTitle: crystal structure of mycobacterium tuberculosis bfrb
44	d1leuma_	Alignment	not modelled	97.8	12 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
45	c3kwoA_	Alignment	not modelled	97.7	9 PDB header: oxidoreductase Chain: A: PDB Molecule: putative bacterioferritin; PDBTitle: crystal structure of putative bacterioferritin from2 campylobacter jejuni
46	c2jd8C_	Alignment	not modelled	97.7	14 PDB header: metal transport Chain: C: PDB Molecule: ferritin homolog; PDBTitle: crystal structure of the zn-soaked ferritin from the2 hyperthermophilic archaeal anaerobe pyrococcus furiosus
47	d1rcda_	Alignment	not modelled	97.7	13 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
48	d1ji4a_	Alignment	not modelled	97.7	13 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
49	d1lb3a_	Alignment	not modelled	97.7	9 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
50	d2ceia1	Alignment	not modelled	97.6	14 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
51	d1dpsa_	Alignment	not modelled	97.6	7 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
52	d1mfra_	Alignment	not modelled	97.6	14 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
53	d2fjca1	Alignment	not modelled	97.5	10 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
54	d1r03a_	Alignment	not modelled	97.5	16 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
55	d2bk6a1	Alignment	not modelled	97.5	10 Fold: Ferritin-like Superfamily: Ferritin-like

					Family: Ferritin
56	d1vela_	Alignment	not modelled	97.5	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
57	d1vja_	Alignment	not modelled	97.3	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
58	d1s3qa1	Alignment	not modelled	97.3	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
59	c1u7mB_	Alignment	not modelled	97.2	PDB header: de novo protein Chain: B: PDB Molecule: four-helix bundle model; PDBTitle: solution structure of a diiron protein model: due ferri(ii)2 turn mutant
60	d2yw6a1	Alignment	not modelled	97.0	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
61	c2ib0A_	Alignment	not modelled	96.9	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved hypothetical alanine rich protein; PDBTitle: crystal structure of a conserved hypothetical protein, rv2844, from2 mycobacterium tuberculosis
62	d2ib0a1	Alignment	not modelled	96.9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Rv2844-like
63	c2xgwA_	Alignment	not modelled	96.9	PDB header: metal binding protein Chain: A: PDB Molecule: peroxide resistance protein; PDBTitle: zinc-bound crystal structure of streptococcus pyogenes dpr
64	d2za7a1	Alignment	not modelled	96.9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
65	d1umna_	Alignment	not modelled	96.9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
66	c2f7nA_	Alignment	not modelled	96.9	PDB header: dna binding protein Chain: A: PDB Molecule: dna-binding stress response protein, dps family; PDBTitle: structure of d. radiodurans dps-1
67	c2wlaA_	Alignment	not modelled	96.7	PDB header: oxidoreductase Chain: A: PDB Molecule: dps-like peroxide resistance protein; PDBTitle: streptococcus pyogenes dpr
68	c2z90D_	Alignment	not modelled	96.5	PDB header: dna binding protein Chain: D: PDB Molecule: starvation-inducible dna-binding protein or fine PDBTitle: crystal structure of the second dps from mycobacterium2 smegmatis
69	c3fseB_	Alignment	not modelled	96.0	PDB header: hydrolase Chain: B: PDB Molecule: two-domain protein containing dj-1/thij/pfpi-like and PDBTitle: crystal structure of a two-domain protein containing dj-1/thij/pfpi-2 like and ferritin-like domains (ava. 4496) from anabaena variabilis3 atcc 29413 at 1.90 a resolution
70	c2rbdB_	Alignment	not modelled	95.9	PDB header: structural protein Chain: B: PDB Molecule: bh2358 protein; PDBTitle: crystal structure of a putative spore coat protein (bh2358) from2 bacillus halodurans c-125 at 1.54 a resolution
71	c2yjkF_	Alignment	not modelled	95.6	PDB header: metal-binding protein Chain: F: PDB Molecule: afp; PDBTitle: structure of dps from microbacterium arborescens in the2 high iron form
72	c1lt1G_	Alignment	not modelled	95.2	PDB header: de novo protein Chain: G: PDB Molecule: 13g-df1; PDBTitle: sliding helix induced change of coordination geometry in a2 model di-mn(ii) protein
73	c2pybC_	Alignment	not modelled	95.1	PDB header: metal transport Chain: C: PDB Molecule: neutrophil activating protein; PDBTitle: napa protein from borrelia burgdorferi
74	c3a9qR_	Alignment	not modelled	95.0	PDB header: oxidoreductase Chain: R: PDB Molecule: PDBTitle: crystal structure analysis of e173a variant of the soybean2 ferritin sfer4
75	c3q4nA_	Alignment	not modelled	94.0	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein mj0754; PDBTitle: crystal structure of hypothetical protein mj0754 from methanococcus2 jannaschii dsm 2661
76	c3bt5A_	Alignment	not modelled	93.8	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein duf305; PDBTitle: crystal structure of duf305 fragment from deinococcus2 radiodurans
77	c2hz8A_	Alignment	not modelled	92.1	PDB header: de novo protein Chain: A: PDB Molecule: de novo designed diiron protein; PDBTitle: qm/mn structure refined from nmr-structure of a single2 chain diiron protein
78	d1z6om1	Alignment	not modelled	90.8	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
79	c2qf9B_	Alignment	not modelled	90.5	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: putative secreted protein; PDBTitle: crystal structure of putative secreted protein duf305 from2 streptomyces coelicolor
80	c3ddeB_	Alignment	not modelled	89.2	PDB header: unknown function Chain: B: PDB Molecule: tena/thi-4 protein, domain of unknown function with a heme PDBTitle: crystal structure of a domain of unknown function with a heme2 oxygenase-like fold (sden_3740) from shewanella

						denitrificans os2173 at 2.30 a resolution
81	d1zs3a1	Alignment	not modelled	88.7	9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
82	d1zpya1	Alignment	not modelled	87.6	18	Fold: Ferritin-like Superfamily: Ferritin-like Family: half-ferritin
83	d1zuja1	Alignment	not modelled	81.8	6	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
84	d2etda1	Alignment	not modelled	75.8	22	Fold: Bromodomain-like Superfamily: LemA-like Family: LemA-like
85	d1q08a_	Alignment	not modelled	75.0	18	Fold: Putative DNA-binding domain Superfamily: Putative DNA-binding domain Family: DNA-binding N-terminal domain of transcription activators
86	d1bg7a_	Alignment	not modelled	73.1	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
87	d1rcwa_	Alignment	not modelled	72.3	14	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: PqqC-like
88	d1jkva_	Alignment	not modelled	67.4	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Manganese catalase (T-catalase)
89	d2cwla1	Alignment	not modelled	59.8	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Manganese catalase (T-catalase)
90	d1q06a_	Alignment	not modelled	59.2	8	Fold: Putative DNA-binding domain Superfamily: Putative DNA-binding domain Family: DNA-binding N-terminal domain of transcription activators
91	c2lchA_	Alignment	not modelled	51.0	10	PDB header: de novo protein Chain: A: PDB Molecule: protein or38; PDBTitle: solution nmr structure of a protein with a redesigned hydrophobic2 core, northeast structural genomics consortium target or38
92	c3oqlB_	Alignment	not modelled	42.6	9	PDB header: transcription Chain: B: PDB Molecule: tena homolog; PDBTitle: crystal structure of a tena homolog (pspto1738) from pseudomonas2 syringae pv. tomato str. dc3000 at 2.54 a resolution
93	d1tqga_	Alignment	not modelled	32.1	11	Fold: Four-helical up-and-down bundle Superfamily: Histidine-containing phosphotransfer domain, HPT domain Family: Chemotaxis protein CheA P1 domain
94	d1i5na_	Alignment	not modelled	32.0	10	Fold: Four-helical up-and-down bundle Superfamily: Histidine-containing phosphotransfer domain, HPT domain Family: Chemotaxis protein CheA P1 domain
95	d1z72a1	Alignment	not modelled	31.5	10	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: TENA/THI-4
96	c1o06A_	Alignment	not modelled	29.7	35	PDB header: transport protein Chain: A: PDB Molecule: vacuolar protein sorting-associated protein vps27; PDBTitle: crystal structure of the vps27p ubiquitin interacting motif (uim)
97	d1udda_	Alignment	not modelled	26.6	14	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: TENA/THI-4
98	c3gp4B_	Alignment	not modelled	25.9	13	PDB header: transcription regulator Chain: B: PDB Molecule: transcriptional regulator, merr family; PDBTitle: crystal structure of putative merr family transcriptional regulator2 from listeria monocytogenes
99	c3oqlA_	Alignment	not modelled	25.5	9	PDB header: transcription Chain: A: PDB Molecule: tena homolog; PDBTitle: crystal structure of a tena homolog (pspto1738) from pseudomonas2 syringae pv. tomato str. dc3000 at 2.54 a resolution
100	c2xykB_	Alignment	not modelled	22.9	10	PDB header: oxygen storage/transport Chain: B: PDB Molecule: 2-on-2 hemoglobin; PDBTitle: group ii 2-on-2 hemoglobin from the plant pathogen2 agrobacterium tumefaciens