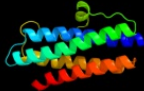


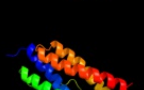







Phyre2

Email	I.a.kelley@imperial.ac.uk
Description	P0ABT2
Date	Thu Jan 5 11:16:18 GMT 2012
Unique Job ID	8b0862fc262279be

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1dpsa_	 Alignment		100.0	99	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
2	c2f7nA_	 Alignment		100.0	25	PDB header: dna binding protein Chain: A: PDB Molecule: dna-binding stress response protein, dps family; PDBTitle: structure of d. radiodurans dps-1
3	d1tjoa_	 Alignment		100.0	22	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
4	d1vela_	 Alignment		100.0	35	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
5	d1o9ra_	 Alignment		100.0	55	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
6	c2z90D_	 Alignment		100.0	28	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
7	c2vjkF_	 Alignment		100.0	31	PDB header: metal-binding protein Chain: F: PDB Molecule: afp; PDBTitle: structure of dps from microbacterium arborescens in the2 high iron form
8	d2fjca1	 Alignment		100.0	22	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
9	c2vxxB_	 Alignment		100.0	18	PDB header: dna-binding protein Chain: B: PDB Molecule: starvation induced dna binding protein; PDBTitle: x-ray structure of dpsa from thermosynechococcus elongatus
10	d2yw6a1	 Alignment		100.0	37	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
11	c3kwoA_	 Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: putative bacterioferritin; PDBTitle: crystal structure of putative bacterioferritin from2 campylobacter jejuni

12	c2c6rA_	Alignment		100.0	24	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
13	d1ji4a_	Alignment		100.0	24	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
14	c2xgwA_	Alignment		100.0	26	PDB header: metal binding protein Chain: A: PDB Molecule: peroxide resistance protein; PDBTitle: zinc-bound crystal structure of streptococcus pyogenes dpr
15	d1n1qa_	Alignment		100.0	28	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
16	c3iq1A_	Alignment		100.0	19	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
17	c2wlaA_	Alignment		100.0	26	PDB header: oxidoreductase Chain: A: PDB Molecule: dps-like peroxide resistance protein; PDBTitle: streptococcus pyogenes dpr
18	d1umna_	Alignment		100.0	26	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
19	d2bk6a1	Alignment		100.0	25	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
20	c2d5kC_	Alignment		100.0	24	PDB header: metal binding protein Chain: C: PDB Molecule: dps family protein; PDBTitle: crystal structure of dps from staphylococcus aureus
21	c2pybC_	Alignment	not modelled	100.0	20	PDB header: metal transport Chain: C: PDB Molecule: neutrophil activating protein; PDBTitle: napa protein from borrelia burgdorferi
22	c2c41K_	Alignment	not modelled	100.0	20	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
23	c2chpC_	Alignment	not modelled	100.0	21	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
24	d1ji5a_	Alignment	not modelled	100.0	22	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
25	d1jiga_	Alignment	not modelled	100.0	25	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
26	d1zs3a1	Alignment	not modelled	100.0	10	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
27	d1zuja1	Alignment	not modelled	100.0	9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
28	c2clbP_	Alignment	not modelled	99.9	13	PDB header: metal binding protein Chain: P: PDB Molecule: dps-like protein; PDBTitle: the structure of the dps-like protein from sulfolobus2 solfataricus reveals a bacterioferritin-like di-metal3 binding site within a dps-like dodecameric assembly

29	c2vzbA	Alignment	not modelled	99.9	13	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
30	d1nf4a	Alignment	not modelled	99.8	16	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
31	d2htna1	Alignment	not modelled	99.8	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
32	c3gvyC	Alignment	not modelled	99.8	12	PDB header: metal binding protein Chain: C: PDB Molecule: bacterioferritin; PDBTitle: crystal structure of bacterioferritin from r.sphaeroides
33	c2qqyA	Alignment	not modelled	99.8	13	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
34	c3fvbB	Alignment	not modelled	99.8	13	PDB header: metal binding protein Chain: B: PDB Molecule: bacterioferritin; PDBTitle: crystal structure of ferritin (bacterioferritin) from2 brucella melitensis
35	c3bknB	Alignment	not modelled	99.8	15	PDB header: metal binding protein Chain: B: PDB Molecule: bacterioferritin; PDBTitle: the structure of mycobacterial bacterioferritin
36	c3r2rA	Alignment	not modelled	99.8	18	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)
37	d1jgca	Alignment	not modelled	99.8	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
38	d2fkza1	Alignment	not modelled	99.8	12	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
39	d1vlga	Alignment	not modelled	99.4	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
40	d1s3qa1	Alignment	not modelled	99.4	12	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
41	c3qz3A	Alignment	not modelled	99.4	15	PDB header: oxidoreductase Chain: A: PDB Molecule: ferritin; PDBTitle: the crystal structure of ferritin from vibrio cholerae o1 biovar el2 tor str. n16961
42	c3e6sD	Alignment	not modelled	99.3	12	PDB header: oxidoreductase Chain: D: PDB Molecule: ferritin; PDBTitle: crystal structure of ferritin soaked with iron from pseudo-2 nitzschia multiseris
43	c2jd8C	Alignment	not modelled	99.3	9	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
44	d1euma	Alignment	not modelled	99.3	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
45	c3bvkc	Alignment	not modelled	99.3	11	PDB header: oxidoreductase Chain: C: PDB Molecule: ferritin; PDBTitle: structural basis for the iron uptake mechanism of helicobacter pylori2 ferritin
46	d1krqa	Alignment	not modelled	99.3	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
47	c3qd8M	Alignment	not modelled	99.3	6	PDB header: metal binding protein Chain: M: PDB Molecule: probable bacterioferritin bfrb; PDBTitle: crystal structure of mycobacterium tuberculosis bfrb
48	d1j30a	Alignment	not modelled	99.1	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
49	d1lkoa1	Alignment	not modelled	99.1	7	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
50	d1yv1a1	Alignment	not modelled	99.0	9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
51	d1lb3a	Alignment	not modelled	99.0	12	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
52	d2za7a1	Alignment	not modelled	99.0	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
53	d1yuza1	Alignment	not modelled	99.0	9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
54	c3oghB	Alignment	not modelled	99.0	5	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 ferritine-like superfamily of diiron-containing four-helix-bundle3 proteins
55	d1r03a	Alignment	not modelled	98.9	11	Fold: Ferritin-like Superfamily: Ferritin-like

					Family: Ferritin
56	d1mfra	Alignment	not modelled	98.9	15 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
57	d2ceia1	Alignment	not modelled	98.9	11 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
58	d1rcda	Alignment	not modelled	98.8	12 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
59	d2oh3a1	Alignment	not modelled	98.8	12 Fold: Ferritin-like Superfamily: Ferritin-like Family: AMB4284-like
60	d1nnaq1	Alignment	not modelled	98.8	12 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
61	d1z6om1	Alignment	not modelled	98.7	10 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
62	c1dvaA	Alignment	not modelled	98.7	7 PDB header: electron transport Chain: A: PDB Molecule: rubrerythrin; PDBTitle: rubrerythrin
63	c3a9qR	Alignment	not modelled	98.6	11 PDB header: oxidoreductase Chain: R: PDB Molecule: PDBTitle: crystal structure analysis of e173a variant of the soybean2 ferritin sfer4
64	c2hr5B	Alignment	not modelled	98.5	12 PDB header: metal binding protein Chain: B: PDB Molecule: rubrerythrin; PDBTitle: pf1283- rubrerythrin from pyrococcus furiosus iron bound form
65	c1yuzB	Alignment	not modelled	98.3	10 PDB header: oxidoreductase Chain: B: PDB Molecule: nigerythrin; PDBTitle: partially reduced state of nigerythrin
66	d2fzfa1	Alignment	not modelled	98.2	13 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
67	d1bg7a	Alignment	not modelled	98.0	11 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
68	c2ib0A	Alignment	not modelled	98.0	10 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
69	d2ib0a1	Alignment	not modelled	98.0	10 Fold: Ferritin-like Superfamily: Ferritin-like Family: Rv2844-like
70	c3qhaA	Alignment	not modelled	97.8	12 PDB header: metal transport Chain: A: PDB Molecule: symerythrin; PDBTitle: crystal structure of oxidized symerythrin from cyanophora paradoxa
71	d1jkva	Alignment	not modelled	97.5	14 Fold: Ferritin-like Superfamily: Ferritin-like Family: Manganese catalase (T-catalase)
72	d1vjxa	Alignment	not modelled	97.2	7 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
73	d1z6oa1	Alignment	not modelled	95.9	12 Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
74	c3q4nA	Alignment	not modelled	93.5	13 PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein mj0754; PDBTitle: crystal structure of hypothetical protein mj0754 from methanococcus2 jannaschii dsm 2661
75	c1u7mB	Alignment	not modelled	92.4	20 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
76	c1lt1G	Alignment	not modelled	91.5	23 PDB header: de novo protein Chain: G: PDB Molecule: l13g-df1; PDBTitle: sliding helix induced change of coordination geometry in a2 model di-mn(ii) protein
77	c3hiuB	Alignment	not modelled	90.1	11 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
78	c2hz8A	Alignment	not modelled	84.1	11 PDB header: de novo protein Chain: A: PDB Molecule: de novo designed diiron protein; PDBTitle: qn/mm structure refined from nmr-structure of a single2 chain diiron protein
79	d2gyqa1	Alignment	not modelled	83.6	9 Fold: Ferritin-like Superfamily: Ferritin-like Family: YciF-like
80	c3fseB	Alignment	not modelled	80.8	13 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
81	d2gs4a1	Alignment	not modelled	58.6	6 Fold: Ferritin-like Superfamily: Ferritin-like Family: YciF-like

82	d2cwla1	Alignment	not modelled	53.4	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Manganese catalase (T-catalase)
83	c2bnlE	Alignment	not modelled	49.2	35	PDB header: stress-response Chain: E: PDB Molecule: modulator protein rsbr; PDBTitle: the structure of the n-terminal domain of rsbr
84	c2x7lP	Alignment	not modelled	27.8	15	PDB header: immune system Chain: P: PDB Molecule: hiv rev; PDBTitle: implications of the hiv-1 rev dimer structure at 3.2a2 resolution for multimeric binding to the rev response3 element
85	c3lphD	Alignment	not modelled	26.3	15	PDB header: viral protein Chain: D: PDB Molecule: protein rev; PDBTitle: crystal structure of the hiv-1 rev dimer
86	d1t98a2	Alignment	not modelled	22.6	17	Fold: STAT-like Superfamily: MukF C-terminal domain-like Family: MukF C-terminal domain-like
87	d2nr5a1	Alignment	not modelled	22.4	28	Fold: Ferritin-like Superfamily: SO2669-like Family: SO2669-like
88	c2l18A	Alignment	not modelled	19.4	9	PDB header: oxidoreductase Chain: A: PDB Molecule: arsenate reductase; PDBTitle: an arsenate reductase in the phosphate binding state
89	d1rxqa	Alignment	not modelled	16.8	9	Fold: DinB/YfiT-like putative metalloenzymes Superfamily: DinB/YfiT-like putative metalloenzymes Family: YfiT-like putative metal-dependent hydrolases
90	c2qf9B	Alignment	not modelled	14.5	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
91	d2hh6a1	Alignment	not modelled	14.3	11	Fold: Left-handed superhelix Superfamily: BH3980-like Family: BH3980-like
92	d2o3la1	Alignment	not modelled	13.3	8	Fold: Left-handed superhelix Superfamily: BH3980-like Family: BH3980-like
93	c1c9lA	Alignment	not modelled	11.9	44	PDB header: endocytosis/exocytosis Chain: A: PDB Molecule: clathrin; PDBTitle: peptide-in-groove interactions link target proteins to the2 b-propeller of clathrin
94	d1otha1	Alignment	not modelled	11.5	10	Fold: ATC-like Superfamily: Aspartate/ornithine carbamoyltransferase Family: Aspartate/ornithine carbamoyltransferase
95	d1utca2	Alignment	not modelled	11.3	44	Fold: 7-bladed beta-propeller Superfamily: Clathrin heavy-chain terminal domain Family: Clathrin heavy-chain terminal domain
96	c2pt7G	Alignment	not modelled	10.7	11	PDB header: hydrolase/protein binding Chain: G: PDB Molecule: hypothetical protein; PDBTitle: crystal structure of cag virb11 (hp0525) and an inhibitory protein2 (hp1451)
97	c3ggzH	Alignment	not modelled	10.5	28	PDB header: protein transport, endocytosis Chain: H: PDB Molecule: vacuolar protein-sorting-associated protein 46; PDBTitle: crystal structure of s.cerevisiae ist1 n-terminal domain in2 complex with did2 mim motif
98	c3ggzE	Alignment	not modelled	10.3	28	PDB header: protein transport, endocytosis Chain: E: PDB Molecule: vacuolar protein-sorting-associated protein 46; PDBTitle: crystal structure of s.cerevisiae ist1 n-terminal domain in2 complex with did2 mim motif
99	c3ggzF	Alignment	not modelled	10.3	28	PDB header: protein transport, endocytosis Chain: F: PDB Molecule: vacuolar protein-sorting-associated protein 46; PDBTitle: crystal structure of s.cerevisiae ist1 n-terminal domain in2 complex with did2 mim motif