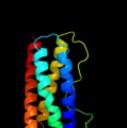
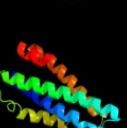
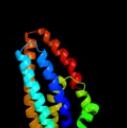


Phyre²

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Description	P76079
Date	Thu Jan 5 12:18:19 GMT 2012
Unique Job ID	232332bea6e545f2

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1otka_	Alignment		100.0	100	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
2	c3pw1A_	Alignment		100.0	18	PDB header: oxidoreductase Chain: A; PDB Molecule: phenylacetic acid degradation protein paaa; PDBTitle: the phenylacetyl-coa monooxygenase paaac subcomplex with phenylacetyl-2 coa
3	c3pm5B_	Alignment		100.0	18	PDB header: oxidoreductase Chain: B; PDB Molecule: benzoyl-coa oxygenase component b; PDBTitle: crystal structure of boxb in mixed valent state with bound benzoyl-coa
4	d1mtyd_	Alignment		98.2	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
5	c3dhia_	Alignment		98.1	15	PDB header: oxidoreductase Chain: A; PDB Molecule: toluene 4-monooxygenase hydroxylase alpha subunit; PDBTitle: crystal structure of reduced toluene 4-monooxygenase hydroxylase2 complexed with effector protein
6	d2inca1	Alignment		98.1	12	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
7	c2inpD_	Alignment		97.7	17	PDB header: oxidoreductase Chain: D; PDB Molecule: phenol hydroxylase component phl; PDBTitle: structure of the phenol hydroxylase-regulatory protein2 complex
8	d2oc5a1	Alignment		97.7	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: PMT1231-like
9	d2fzfa1	Alignment		97.6	8	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
10	c3ez0D_	Alignment		97.3	10	PDB header: structural genomics, unknown function Chain: D; PDB Molecule: uncharacterized protein with ferritin-like fold; PDBTitle: crystal structure of protein of unknown function with ferritin-like2 fold (yp_832262.1) from arthrobacter sp. fb24 at 2.33 a resolution
11	c3dhgB_	Alignment		97.1	15	PDB header: oxidoreductase Chain: B; PDB Molecule: toluene 4-monooxygenase hydroxylase beta subunit; PDBTitle: crystal struture of toluene 4-monooxygenase hydroxylase

12	d1mhyd			96.9	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
13	d2incb1			96.8	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
14	d1mhyb			96.8	12	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
15	c2innA			96.5	11	PDB header: oxidoreductase Chain: A: PDB Molecule: phenol hydroxylase component phn; PDBTitle: structure of the phenol hydroxylase-regulatory protein2 complex
16	d1jgca			96.0	16	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
17	d2oh3a1			95.7	9	Fold: Ferritin-like Superfamily: Ferritin-like Family: AMB4284-like
18	c3bknB			95.5	12	PDB header: metal binding protein Chain: B: PDB Molecule: bacterioferritin; PDBTitle: the structure of mycobacterial bacterioferritin
19	c3ee4A			95.3	11	PDB header: oxidoreductase Chain: A: PDB Molecule: probable ribonucleoside-diphosphate reductase; PDBTitle: r2-like ligand binding mn/fe oxidase from m. tuberculosis
20	c2olzA			95.2	12	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleotide reductase subunit r2; PDBTitle: plasmodium vivax ribonucleotide reductase subunit r22 (pv086155)
21	d1rcwa		not modelled	94.8	11	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: PqqC-like
22	d1mxra		not modelled	94.8	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
23	c2vzbA		not modelled	94.8	9	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
24	d1vjxa		not modelled	94.6	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
25	c2vuxB		not modelled	94.3	12	PDB header: oxidoreductase Chain: B: PDB Molecule: ribonucleoside-diphosphate reductase subunit m2 b; PDBTitle: human ribonucleotide reductase, subunit m2 b
26	d1j30a		not modelled	94.3	16	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
27	c2rccC		not modelled	94.1	8	PDB header: oxidoreductase Chain: C: PDB Molecule: ribonucleoside-diphosphate reductase subunit beta; PDBTitle: crystal structure of putative class i ribonucleotide reductase2 (np_241368.1) from bacillus halodurans at 1.90 a resolution PDB header: unknown function Chain: B: PDB Molecule: tena/thi-4 protein, domain of unknown function

28	c3ddeB	Alignment	not modelled	93.9	12	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
29	c2pliA	Alignment	not modelled	93.8	12	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleotide reductase, small chain; PDBTitle: plasmodium yoelii ribonucleotide reductase subunit r2 (py03671)
30	c2clbP	Alignment	not modelled	93.7	10	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
31	d1w68a	Alignment	not modelled	93.4	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
32	c1h0oA	Alignment	not modelled	93.4	11	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleoside-diphosphate reductase; PDBTitle: cobalt substitution of mouse r2 ribonucleotide reductase to2 model the reactive diferrous state
33	d1smsa	Alignment	not modelled	93.2	9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
34	c3hf1B	Alignment	not modelled	93.1	11	PDB header: oxidoreductase Chain: B: PDB Molecule: ribonucleoside-diphosphate reductase subunit m2 PDBTitle: crystal structure of human p53r2
35	c3fvbB	Alignment	not modelled	92.9	11	PDB header: metal binding protein Chain: B: PDB Molecule: bacterioferritin; PDBTitle: crystal structure of ferritin (bacterioferritin) from2 brucella melitensis
36	c3gvyC	Alignment	not modelled	92.3	11	PDB header: metal binding protein Chain: C: PDB Molecule: bacterioferritin; PDBTitle: crystal structure of bacterioferritin from r.sphaeroides
37	c1yfdA	Alignment	not modelled	92.2	12	PDB header: oxidoreductase Chain: A: PDB Molecule: ribonucleoside-diphosphate reductase 1 beta PDBTitle: crystal structure of the y122h mutant of ribonucleotide2 reductase r2 protein from e. coli
38	d2htna1	Alignment	not modelled	92.2	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
39	d1ikoal	Alignment	not modelled	92.1	16	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
40	d2fkza1	Alignment	not modelled	92.0	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
41	c3bjdA	Alignment	not modelled	91.8	15	PDB header: transferase Chain: A: PDB Molecule: putative 3-oxoacyl-(acyl-carrier-protein) synthase; PDBTitle: crystal structure of putative 3-oxoacyl-(acyl-carrier-protein)2 synthase from pseudomonas aeruginosa
42	d1nf4a	Alignment	not modelled	90.3	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
43	c3qhbA	Alignment	not modelled	90.3	15	PDB header: metal transport Chain: A: PDB Molecule: symerythrin; PDBTitle: crystal structure of oxidized symerythrin from cyanophora paradoxa
44	d1yv1a1	Alignment	not modelled	90.2	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
45	c1dvbA	Alignment	not modelled	89.7	8	PDB header: electron transport Chain: A: PDB Molecule: rubererythrin; PDBTitle: rubererythrin
46	d1syya	Alignment	not modelled	88.3	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
47	c1syya	Alignment	not modelled	88.3	11	PDB header: replication,oxidoreductase Chain: A: PDB Molecule: ribonucleoside-diphosphate reductase beta chain; PDBTitle: crystal structure of the r2 subunit of ribonucleotide reductase from2 chlamydia trachomatis
48	d1za0a1	Alignment	not modelled	88.3	16	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
49	c1r2fB	Alignment	not modelled	87.7	12	PDB header: oxidoreductase Chain: B: PDB Molecule: protein (ribonucleotide reductase r2); PDBTitle: ribonucleotide reductase r2f protein from salmonella2 typhimurium
50	d1jkva	Alignment	not modelled	87.6	16	Fold: Ferritin-like Superfamily: Ferritin-like Family: Manganese catalase (T-catalase)
51	d1r2fa	Alignment	not modelled	87.5	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
52	d1uzra	Alignment	not modelled	87.4	12	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
53	c3oqlB	Alignment	not modelled	87.0	10	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

54	d1afra_		Alignment	not modelled	85.7	12	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
55	c3oghB_		Alignment	not modelled	85.3	7	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: protein cytc; PDBTitle: crystal structure of cytc protein from e. coli cft073, a member of2 ferritin-like superfamily of diiron-containing four-helix-bundle3 proteins
56	d1nnqa1		Alignment	not modelled	85.0	17	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
57	c3e6sD_		Alignment	not modelled	84.5	11	PDB header: oxidoreductase Chain: D: PDB Molecule: ferritin; PDBTitle: crystal structure of ferritin soaked with iron from pseudo-2 nitzschia multiseries
58	d3dhza1		Alignment	not modelled	84.3	10	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
59	c3r2rA_		Alignment	not modelled	83.4	13	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)
60	c2qgyA_		Alignment	not modelled	83.0	11	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
61	c2rd3A_		Alignment	not modelled	82.8	12	PDB header: hydrolase Chain: A: PDB Molecule: transcriptional regulator; PDBTitle: crystal structure of tena homologue (hp1287) from2 helicobacter pylori
62	d2itba1		Alignment	not modelled	81.6	14	Fold: Ferritin-like Superfamily: Ferritin-like Family: MiaE-like
63	d1jk0a_		Alignment	not modelled	80.0	9	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
64	c1smqD_		Alignment	not modelled	79.9	9	PDB header: oxidoreductase Chain: D: PDB Molecule: ribonucleoside-diphosphate reductase small chain PDBTitle: structure of the ribonucleotide reductase rnr2 homodimer2 from saccharomyces cerevisiae
65	d1vlgA_		Alignment	not modelled	79.1	16	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
66	c3q4nA_		Alignment	not modelled	77.4	17	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein mj0754; PDBTitle: crystal structure of hypothetical protein mj0754 from methanococcus2 jannaschii dsm 2661
67	c2hr5B_		Alignment	not modelled	77.2	17	PDB header: metal binding protein Chain: B: PDB Molecule: rubrerythrin; PDBTitle: pf1283- rubrerythrin from pyrococcus furiosus iron bound form
68	d1yuza1		Alignment	not modelled	75.6	10	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
69	c2qcxA_		Alignment	not modelled	73.8	14	PDB header: hydrolase Chain: A: PDB Molecule: transcriptional activator tena; PDBTitle: crystal structure of bacillus subtilis tena y112f mutant complexed2 with formyl aminomethyl pyrimidine
70	d1jk0b_		Alignment	not modelled	73.0	10	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
71	d1oquc_		Alignment	not modelled	69.5	11	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
72	c3bvkC_		Alignment	not modelled	68.0	11	PDB header: oxidoreductase Chain: C: PDB Molecule: ferritin; PDBTitle: structural basis for the iron uptake mechanism of helicobacter pylori2 ferritin
73	d1z72a1		Alignment	not modelled	66.8	17	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: TENA/THI-4
74	d1euma_		Alignment	not modelled	66.5	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
75	d1krqa_		Alignment	not modelled	52.6	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
76	c3oqlA_		Alignment	not modelled	46.8	11	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
77	d1otva_		Alignment	not modelled	45.8	10	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: PqqC-like
78	d2hgaa4		Alignment	not modelled	44.4	22	Fold: ATP-grasp Superfamily: Glutathione synthetase ATP-binding domain-like Family: Eukaryotic glutathione synthetase ATP-binding domain
79	c3bt5A_		Alignment	not modelled	42.0	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein duf305; PDBTitle: crystal structure of duf305 fragment from deinococcus2 radiodurans
							Fold: Ferritin-like

80	d1s3qa1	Alignment	not modelled	40.7	13	Superfamily: Ferritin-like Family: Ferritin
81	c3chtA_	Alignment	not modelled	40.3	10	PDB header: oxidoreductase Chain: A: PDB Molecule: p-aminobenzoate n-oxygenase; PDBTitle: crystal structure of di-iron aurf with partially bound ligand
82	c3qd8M_	Alignment	not modelled	38.3	8	PDB header: metal binding protein Chain: M: PDB Molecule: probable bacterioferritin bfrb; PDBTitle: crystal structure of mycobacterium tuberculosis bfrb
83	d1udda_	Alignment	not modelled	36.2	9	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: TENA/THI-4
84	d2gm8a1	Alignment	not modelled	34.0	12	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: TENA/THI-4
85	c2y69R_	Alignment	not modelled	29.9	19	PDB header: electron transport Chain: R: PDB Molecule: cytochrome c oxidase subunit 5a; PDBTitle: bovine heart cytochrome c oxidase re-refined with molecular2 oxygen
86	c3no6B_	Alignment	not modelled	28.4	11	PDB header: hydrolase Chain: B: PDB Molecule: transcriptional activator tena; PDBTitle: crystal structure of a putative thiaminase ii (se1693) from staphylococcus epidermidis atcc 12228 at 1.65 a resolution
87	d1v54e_	Alignment	not modelled	27.1	19	Fold: alpha-alpha superhelix Superfamily: Cytochrome c oxidase subunit E Family: Cytochrome c oxidase subunit E
88	d1zpya1	Alignment	not modelled	26.4	17	Fold: Ferritin-like Superfamily: Ferritin-like Family: half ferritin
89	c3qz3A_	Alignment	not modelled	25.9	13	PDB header: oxidoreductase Chain: A: PDB Molecule: ferritin; PDBTitle: the crystal structure of ferritin from vibrio cholerae o1 biovar el2 tor str. n16961
90	c3fpvC_	Alignment	not modelled	24.7	35	PDB header: heme binding protein Chain: C: PDB Molecule: extracellular haem-binding protein; PDBTitle: crystal structure of hbps
91	c1to9A_	Alignment	not modelled	24.0	13	PDB header: biosynthetic protein Chain: A: PDB Molecule: thi-4 protein; PDBTitle: crystal structure of thi-4 protein from bacillus subtilis
92	d1to9a_	Alignment	not modelled	24.0	13	Fold: Heme oxygenase-like Superfamily: Heme oxygenase-like Family: TENA/THI-4
93	c2jd8C_	Alignment	not modelled	22.4	17	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
94	c2yumA_	Alignment	not modelled	20.9	21	PDB header: transcription Chain: A: PDB Molecule: zinc finger zz-type-containing protein 3; PDBTitle: solution structure of the myb-like dna-binding domain of2 human zzz3 protein
95	c3h3mb_	Alignment	not modelled	20.6	14	PDB header: structural genomics Chain: B: PDB Molecule: flagellar protein flit; PDBTitle: crystal structure of flagellar protein flit from bordetella2 bronchiseptica
96	c1yuzB_	Alignment	not modelled	20.1	10	PDB header: oxidoreductase Chain: B: PDB Molecule: nigerythrin; PDBTitle: partially reduced state of nigerythrin
97	d1mtyb_	Alignment	not modelled	15.8	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
98	d2qdya1	Alignment	not modelled	14.2	15	Fold: Nitrile hydratase alpha chain Superfamily: Nitrile hydratase alpha chain Family: Nitrile hydratase alpha chain
99	d1r03a_	Alignment	not modelled	14.0	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin