










#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1gvhA_	Alignment		100.0	100	PDB header: oxidoreductase Chain: A: PDB Molecule: flavohemoprotein; PDBTitle: the x-ray structure of ferric escherichia coli2 flavohemoglobin reveals an unsuspected geometry of the3 distal heme pocket
2	c1cqxB_	Alignment		100.0	46	PDB header: lipid binding protein Chain: B: PDB Molecule: flavohemoprotein; PDBTitle: crystal structure of the flavohemoglobin from alcaligenes eutrophus at2 1.75 a resolution
3	c1krhA_	Alignment		100.0	24	PDB header: oxidoreductase Chain: A: PDB Molecule: benzoate 1,2-dioxygenase reductase; PDBTitle: x-ray stucture of benzoate dioxygenase reductase
4	c2r6hC_	Alignment		100.0	20	PDB header: oxidoreductase Chain: C: PDB Molecule: nadh:ubiquinone oxidoreductase, na translocating, f PDBTitle: crystal structure of the domain comprising the nad binding and the fad2 binding regions of the nadh:ubiquinone oxidoreductase, na3 translocating, f subunit from porphyromonas gingivalis
5	c2eixA_	Alignment		100.0	22	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh-cytochrome b5 reductase; PDBTitle: the structure of physarum polycephalum cytochrome b5 reductase
6	c1tvcA_	Alignment		100.0	23	PDB header: oxidoreductase Chain: A: PDB Molecule: methane monooxygenase component c; PDBTitle: fad and nadh binding domain of methane monooxygenase2 reductase from methylcoccus capsulatus (bath)
7	c3fpkB_	Alignment		100.0	18	PDB header: flavoprotein, oxidoreductase Chain: B: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: crystal structure of ferredoxin-nadp reductase from salmonella2 typhimurium
8	c2ok8D_	Alignment		100.0	17	PDB header: oxidoreductase Chain: D: PDB Molecule: putative ferredoxin--nadp reductase; PDBTitle: ferredoxin-nadp+ reductase from plasmodium falciparum
9	c1a8pA_	Alignment		100.0	13	PDB header: oxidoreductase Chain: A: PDB Molecule: nadph\ferredoxin oxidoreductase; PDBTitle: ferredoxin reductase from azotobacter vinelandii
10	c2bgjB_	Alignment		100.0	14	PDB header: oxidoreductase Chain: B: PDB Molecule: ferredoxin-nadp(h) reductase; PDBTitle: x-ray structure of the ferredoxin-nadp(h) reductase from2 rhodobacter capsulatus at 2.1 angstroms
11	c1fncA_	Alignment		100.0	20	PDB header: oxidoreductase (nadp+(a),ferredoxin(a)) Chain: A: PDB Molecule: ferredoxin-nadp+ reductase; PDBTitle: refined crystal structure of spinach ferredoxin reductase2 at 1.7 angstroms resolution: oxidized, reduced, and 2'-3 phospho-5'-amp bound states

12	c1umkA	Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh-cytochrome b5 reductase; PDBTitle: the structure of human erythrocyte nadh-cytochrome b52 reductase
13	c2piaA	Alignment		100.0	22	PDB header: reductase Chain: A: PDB Molecule: phthalate dioxygenase reductase; PDBTitle: phthalate dioxygenase reductase: a modular structure for2 electron transfer from pyridine nucleotides to [2fe-2s]
14	c1qfjD	Alignment		100.0	16	PDB header: oxidoreductase Chain: D: PDB Molecule: protein (flavin reductase); PDBTitle: crystal structure of nad(p)h:flavin oxidoreductase from escherichia2 coli
15	c1qgyA	Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp+ reductase; PDBTitle: ferredoxin:nadp+ reductase mutant with lys 75 replaced by glu (k75e)
16	c2b5oA	Alignment		100.0	20	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin--nadp reductase; PDBTitle: ferredoxin-nadp reductase
17	c1jb9A	Alignment		100.0	21	PDB header: oxidoreductase Chain: A: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: crystal structure of the ferredoxin:nadp+ reductase from maize root at2 1.7 angstroms
18	c1cneA	Alignment		100.0	19	PDB header: oxidoreductase Chain: A: PDB Molecule: nitrate reductase; PDBTitle: structural studies on corn nitrate reductase: refined2 structure of the cytochrome b reductase fragment at 2.53 angstroms, its adp complex and an active site mutant and4 modeling of the cytochrome b domain
19	c2rc5D	Alignment		100.0	21	PDB header: oxidoreductase Chain: D: PDB Molecule: ferredoxin-nadp reductase; PDBTitle: refined structure of fnr from leptospira interrogans
20	d1gvha1	Alignment		100.0	100	Fold: Globin-like Superfamily: Globin-like Family: Globins
21	c1ep3B	Alignment	not modelled	100.0	19	PDB header: oxidoreductase Chain: B: PDB Molecule: dihydroorotate dehydrogenase b (pyrk subunit); PDBTitle: crystal structure of lactococcus lactis dihydroorotate dehydrogenase2 b. data collected under cryogenic conditions.
22	d1cqxa1	Alignment	not modelled	100.0	47	Fold: Globin-like Superfamily: Globin-like Family: Globins
23	c2gpiA	Alignment	not modelled	100.0	10	PDB header: fad-binding protein Chain: A: PDB Molecule: siderophore-interacting protein; PDBTitle: crystal structure of a siderophore-interacting protein (sputcn32_0076)2 from shewanella putrefaciens cn-32 at 2.20 a resolution
24	c2wy4A	Alignment	not modelled	99.9	38	PDB header: oxygen transport Chain: A: PDB Molecule: single domain haemoglobin; PDBTitle: structure of bacterial globin from campylobacter jejuni at2 1.35 a resolution
25	d1gvha3	Alignment	not modelled	99.9	100	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Flavohemoglobin, C-terminal domain
26	d1vhba	Alignment	not modelled	99.9	48	Fold: Globin-like Superfamily: Globin-like Family: Globins
27	c1o1nA	Alignment	not modelled	99.9	18	PDB header: oxygen storage/transport Chain: A: PDB Molecule: hemoglobin alpha chain; PDBTitle: deoxy hemoglobin (a-glyglygly-c:v1m,l29w; b,d:v1m)
28	c1tIIA	Alignment	not modelled	99.9	20	PDB header: oxidoreductase Chain: A: PDB Molecule: nitric-oxide synthase, brain; PDBTitle: crystal structure of rat neuronal nitric-oxide synthase2

					reductase module at 2.3 a resolution.
29	c1f20A_	Alignment	not modelled	99.9	18 PDB header: oxidoreductase Chain: A: PDB Molecule: nitric-oxide synthase; PDBTitle: crystal structure of rat neuronal nitric-oxide synthase fad/nadp+2 domain at 1.9a resolution.
30	c1ddiA_	Alignment	not modelled	99.9	15 PDB header: oxidoreductase Chain: A: PDB Molecule: sulfite reductase [nadph] flavoprotein alpha- PDBTitle: crystal structure of sir-fp60
31	c3pt8B_	Alignment	not modelled	99.9	18 PDB header: oxygen transport Chain: B: PDB Molecule: hemoglobin iii; PDBTitle: structure of hbii-iii-cn from lucina pectinata at ph 5.0
32	c2olpB_	Alignment	not modelled	99.9	17 PDB header: oxygen storage/transport Chain: B: PDB Molecule: hemoglobin ii; PDBTitle: structure and ligand selection of hemoglobin ii from lucina pectinata
33	d1cqxa3	Alignment	not modelled	99.9	37 Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Flavohemoglobin, C-terminal domain
34	d1mbaa_	Alignment	not modelled	99.9	16 Fold: Globin-like Superfamily: Globin-like Family: Globins
35	c3s1jC_	Alignment	not modelled	99.9	22 PDB header: oxygen transport, oxygen storage Chain: C: PDB Molecule: hemoglobin-like flavoprotein; PDBTitle: crystal structure of acetate-bound hell's gate globin i
36	c1j9zB_	Alignment	not modelled	99.9	16 PDB header: oxidoreductase Chain: B: PDB Molecule: nadph-cytochrome p450 reductase; PDBTitle: cypor-w677g
37	d1scta_	Alignment	not modelled	99.9	19 Fold: Globin-like Superfamily: Globin-like Family: Globins
38	c1yhuJ_	Alignment	not modelled	99.9	13 PDB header: oxygen storage/transport Chain: J: PDB Molecule: giant hemoglobins b chain; PDBTitle: crystal structure of riftia pachyptila c1 hemoglobin reveals novel2 assembly of 24 subunits.
39	d1hbga_	Alignment	not modelled	99.9	16 Fold: Globin-like Superfamily: Globin-like Family: Globins
40	c2qtzA_	Alignment	not modelled	99.9	14 PDB header: oxidoreductase Chain: A: PDB Molecule: methionine synthase reductase; PDBTitle: crystal structure of the nadp+-bound fad-containing fnr-like module of2 human methionine synthase reductase
41	d1qpwa_	Alignment	not modelled	99.9	20 Fold: Globin-like Superfamily: Globin-like Family: Globins
42	d1sctb_	Alignment	not modelled	99.9	18 Fold: Globin-like Superfamily: Globin-like Family: Globins
43	d1tvca2	Alignment	not modelled	99.9	20 Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Aromatic dioxygenase reductase-like
44	d1jl6a_	Alignment	not modelled	99.9	17 Fold: Globin-like Superfamily: Globin-like Family: Globins
45	c3qftA_	Alignment	not modelled	99.9	16 PDB header: oxidoreductase Chain: A: PDB Molecule: nadph--cytochrome p450 reductase; PDBTitle: crystal structure of nadph-cytochrome p450 reductase (fad/nadph domain2 and r457h mutant)
46	d1gcvb_	Alignment	not modelled	99.9	14 Fold: Globin-like Superfamily: Globin-like Family: Globins
47	c2zs0A_	Alignment	not modelled	99.9	13 PDB header: oxygen storage, oxygen transport Chain: A: PDB Molecule: extracellular giant hemoglobin major globin subunit a1; PDBTitle: structural basis for the heterotropic and homotropic interactions of2 invertebrate giant hemoglobin
48	d3d1ka1	Alignment	not modelled	99.9	18 Fold: Globin-like Superfamily: Globin-like Family: Globins
49	d1cg5a_	Alignment	not modelled	99.9	19 Fold: Globin-like Superfamily: Globin-like Family: Globins
50	d1liha_	Alignment	not modelled	99.9	18 Fold: Globin-like Superfamily: Globin-like Family: Globins
51	c2c0kB_	Alignment	not modelled	99.9	13 PDB header: oxygen transport Chain: B: PDB Molecule: hemoglobin; PDBTitle: the structure of hemoglobin from the botfly gasterophilus2 intestinalis
52	d1a4fa_	Alignment	not modelled	99.9	19 Fold: Globin-like Superfamily: Globin-like Family: Globins
53	d1outa_	Alignment	not modelled	99.9	20 Fold: Globin-like Superfamily: Globin-like Family: Globins
54	d1gcva_	Alignment	not modelled	99.9	16 Fold: Globin-like Superfamily: Globin-like Family: Globins
					Fold: Globin-like

55	d1b0ba_	Alignment	not modelled	99.9	17	Superfamily: Globin-like Family: Globins
56	c1ut0A_	Alignment	not modelled	99.9	17	PDB header: oxygen transport Chain: A: PDB Molecule: cytoglobin; PDBTitle: crystal structure of cytoglobin: the fourth globin type2 discovered in man displays heme hexa-coordination
57	d1urva_	Alignment	not modelled	99.9	17	Fold: Globin-like Superfamily: Globin-like Family: Globins
58	c3bomC_	Alignment	not modelled	99.9	19	PDB header: oxygen storage/transport Chain: C: PDB Molecule: hemoglobin subunit alpha-4; PDBTitle: crystal structure of trout hemoglobin at 1.35 angstrom2 resolution
59	d1lhta_	Alignment	not modelled	99.9	17	Fold: Globin-like Superfamily: Globin-like Family: Globins
60	d3sdha_	Alignment	not modelled	99.9	19	Fold: Globin-like Superfamily: Globin-like Family: Globins
61	d1hlba_	Alignment	not modelled	99.9	20	Fold: Globin-like Superfamily: Globin-like Family: Globins
62	c2d2mB_	Alignment	not modelled	99.9	12	PDB header: oxygen storage/transport Chain: B: PDB Molecule: giant hemoglobin, a2(a5) globin chain; PDBTitle: structure of an extracellular giant hemoglobin of the2 gutless beard worm oligobranchia mashikoi
63	d2d5xa1	Alignment	not modelled	99.9	18	Fold: Globin-like Superfamily: Globin-like Family: Globins
64	d1x9fb_	Alignment	not modelled	99.9	11	Fold: Globin-like Superfamily: Globin-like Family: Globins
65	d1jl7a_	Alignment	not modelled	99.9	19	Fold: Globin-like Superfamily: Globin-like Family: Globins
66	d1mwca_	Alignment	not modelled	99.9	17	Fold: Globin-like Superfamily: Globin-like Family: Globins
67	d1wmua_	Alignment	not modelled	99.9	16	Fold: Globin-like Superfamily: Globin-like Family: Globins
68	c3mkbD_	Alignment	not modelled	99.9	14	PDB header: oxygen storage, oxygen transport Chain: D: PDB Molecule: hemoglobin subunit beta; PDBTitle: crystal structure determination of shortfin mako (isurus oxyrinchus)2 hemoglobin at 1.9 angstrom resolution
69	c1yhuA_	Alignment	not modelled	99.9	18	PDB header: oxygen storage/transport Chain: A: PDB Molecule: hemoglobin a1 chain; PDBTitle: crystal structure of riftia pachyptila c1 hemoglobin reveals novel2 assembly of 24 subunits.
70	d1v4wa_	Alignment	not modelled	99.9	19	Fold: Globin-like Superfamily: Globin-like Family: Globins
71	d1a6ma_	Alignment	not modelled	99.9	16	Fold: Globin-like Superfamily: Globin-like Family: Globins
72	c1yhuW_	Alignment	not modelled	99.9	13	PDB header: oxygen storage/transport Chain: W: PDB Molecule: hemoglobin b1a chain; PDBTitle: crystal structure of riftia pachyptila c1 hemoglobin reveals novel2 assembly of 24 subunits.
73	d1x9fd_	Alignment	not modelled	99.9	16	Fold: Globin-like Superfamily: Globin-like Family: Globins
74	d1spga_	Alignment	not modelled	99.9	20	Fold: Globin-like Superfamily: Globin-like Family: Globins
75	c2bk9A_	Alignment	not modelled	99.9	19	PDB header: oxygen transport Chain: A: PDB Molecule: cg9734-pa; PDBTitle: drosophila melanogaster globin
76	d1xq5a_	Alignment	not modelled	99.9	20	Fold: Globin-like Superfamily: Globin-like Family: Globins
77	d1fhja_	Alignment	not modelled	99.9	16	Fold: Globin-like Superfamily: Globin-like Family: Globins
78	d1fsla_	Alignment	not modelled	99.9	22	Fold: Globin-like Superfamily: Globin-like Family: Globins
79	d2gdma_	Alignment	not modelled	99.9	22	Fold: Globin-like Superfamily: Globin-like Family: Globins
80	d1qfja2	Alignment	not modelled	99.9	14	Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Reductases
81	c3qqrA_	Alignment	not modelled	99.9	19	PDB header: oxygen transport Chain: A: PDB Molecule: non-legume hemoglobin; PDBTitle: crystal structure of parasponia hemoglobin; differential heme2 coordination is linked to quaternary structure
82	d1mbsa_	Alignment	not modelled	99.9	18	Fold: Globin-like Superfamily: Globin-like

					Family: Globins
83	d1hbra_	Alignment	not modelled	99.9	17 Fold: Globin-like Superfamily: Globin-like Family: Globins
84	d1x9fc_	Alignment	not modelled	99.9	15 Fold: Globin-like Superfamily: Globin-like Family: Globins
85	d2qssa1	Alignment	not modelled	99.9	19 Fold: Globin-like Superfamily: Globin-like Family: Globins
86	c1yhuX_	Alignment	not modelled	99.9	9 PDB header: oxygen storage/transport Chain: X: PDB Molecule: hemoglobin b2 chain; PDBTitle: crystal structure of rifia pachyptila c1 hemoglobin reveals novel2 assembly of 24 subunits.
87	d2mm1a_	Alignment	not modelled	99.9	19 Fold: Globin-like Superfamily: Globin-like Family: Globins
88	c2bpoA_	Alignment	not modelled	99.9	21 PDB header: reductase Chain: A: PDB Molecule: nadph-cytochrom p450 reductase; PDBTitle: crystal structure of the yeast cpr triple mutant: d74g,2 y75f, k78a.
89	d1jebb_	Alignment	not modelled	99.9	15 Fold: Globin-like Superfamily: Globin-like Family: Globins
90	d1h97a_	Alignment	not modelled	99.9	15 Fold: Globin-like Superfamily: Globin-like Family: Globins
91	d1krha2	Alignment	not modelled	99.9	24 Fold: Ferredoxin reductase-like, C-terminal NADP-linked domain Superfamily: Ferredoxin reductase-like, C-terminal NADP-linked domain Family: Aromatic dioxygenase reductase-like
92	c2zs1D_	Alignment	not modelled	99.9	12 PDB header: oxygen storage, oxygen transport Chain: D: PDB Molecule: extracellular giant hemoglobin major globin subunit b1; PDBTitle: structural basis for the heterotropic and homotropic interactions of2 invertebrate giant hemoglobin
93	c1x3kA_	Alignment	not modelled	99.9	12 PDB header: oxygen storage/transport Chain: A: PDB Molecule: hemoglobin component v; PDBTitle: crystal structure of a hemoglobin component (ta-v) from2 tokunagayusurika akamusi
94	d1jeba_	Alignment	not modelled	99.9	16 Fold: Globin-like Superfamily: Globin-like Family: Globins
95	d1x9fa_	Alignment	not modelled	99.8	15 Fold: Globin-like Superfamily: Globin-like Family: Globins
96	d1it2a_	Alignment	not modelled	99.8	13 Fold: Globin-like Superfamily: Globin-like Family: Globins
97	c2d2mC_	Alignment	not modelled	99.8	11 PDB header: oxygen storage/transport Chain: C: PDB Molecule: giant hemoglobin, b2(c) globin chain; PDBTitle: structure of an extracellular giant hemoglobin of the2 gutless beard worm oligobranchia mashikoi
98	d2lhba_	Alignment	not modelled	99.8	16 Fold: Globin-like Superfamily: Globin-like Family: Globins
99	d1d8ua_	Alignment	not modelled	99.8	17 Fold: Globin-like Superfamily: Globin-like Family: Globins
100	d1hlma_	Alignment	not modelled	99.8	16 Fold: Globin-like Superfamily: Globin-like Family: Globins
101	d1cg5b_	Alignment	not modelled	99.8	13 Fold: Globin-like Superfamily: Globin-like Family: Globins
102	d1myta_	Alignment	not modelled	99.8	14 Fold: Globin-like Superfamily: Globin-like Family: Globins
103	d2v1fa1	Alignment	not modelled	99.8	16 Fold: Globin-like Superfamily: Globin-like Family: Globins
104	d1q1fa_	Alignment	not modelled	99.8	20 Fold: Globin-like Superfamily: Globin-like Family: Globins
105	d1oj6a_	Alignment	not modelled	99.8	21 Fold: Globin-like Superfamily: Globin-like Family: Globins
106	d2d5xb1	Alignment	not modelled	99.8	18 Fold: Globin-like Superfamily: Globin-like Family: Globins
107	c2vywA_	Alignment	not modelled	99.8	12 PDB header: oxygen binding Chain: A: PDB Molecule: hemoglobin; PDBTitle: hemoglobin (hb2) from trematode fasciola hepatica
108	d2qssb1	Alignment	not modelled	99.8	18 Fold: Globin-like Superfamily: Globin-like Family: Globins
109	d2dn3a1	Alignment	not modelled	99.8	18 Fold: Globin-like Superfamily: Globin-like

					Family: Globins
110	d1hdsa_	Alignment	not modelled	99.8	19 Fold: Globin-like Superfamily: Globin-like Family: Globins
111	d1gvha2	Alignment	not modelled	99.8	100 Fold: Reductase/isomerase/elongation factor common domain Superfamily: Riboflavin synthase domain-like Family: Ferredoxin reductase FAD-binding domain-like
112	c2wtgA_	Alignment	not modelled	99.8	17 PDB header: oxygen transport Chain: A: PDB Molecule: globin-like protein; PDBTitle: high resolution 3d structure of c.elegans globin-like2 protein glb-1
113	d1i3da_	Alignment	not modelled	99.8	17 Fold: Globin-like Superfamily: Globin-like Family: Globins
114	c1x46A_	Alignment	not modelled	99.8	18 PDB header: oxygen storage/transport Chain: A: PDB Molecule: hemoglobin component vii; PDBTitle: crystal structure of a hemoglobin component (ta-vii) from2 tokunagayusurika akamusi
115	d1ch4a_	Alignment	not modelled	99.8	16 Fold: Globin-like Superfamily: Globin-like Family: Globins
116	d1v4wb_	Alignment	not modelled	99.8	13 Fold: Globin-like Superfamily: Globin-like Family: Globins
117	d1outb_	Alignment	not modelled	99.8	17 Fold: Globin-like Superfamily: Globin-like Family: Globins
118	d1hbrb_	Alignment	not modelled	99.8	18 Fold: Globin-like Superfamily: Globin-like Family: Globins
119	d1emya_	Alignment	not modelled	99.8	19 Fold: Globin-like Superfamily: Globin-like Family: Globins
120	d1fhjb_	Alignment	not modelled	99.8	21 Fold: Globin-like Superfamily: Globin-like Family: Globins