


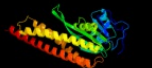
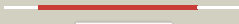
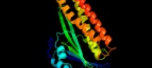





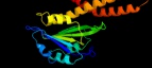
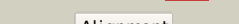
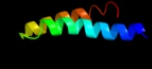
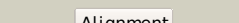

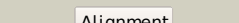


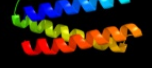
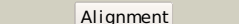
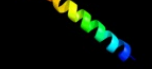



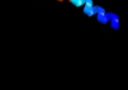


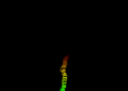

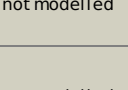


#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2bbjB_	 Alignment		100.0	15	PDB header: metal transport/membrane protein Chain: B: PDB Molecule: divalent cation transport-related protein; PDBTitle: crystal structure of the cora mg2+ transporter
2	c3nwiC_	 Alignment		100.0	90	PDB header: transport protein Chain: C: PDB Molecule: zinc transport protein zntb; PDBTitle: the soluble domain structure of the zntb zn2+ efflux system
3	d2iuba1	 Alignment		100.0	15	Fold: CorA soluble domain-like Superfamily: CorA soluble domain-like Family: CorA soluble domain-like
4	c3ck6E_	 Alignment		100.0	18	PDB header: structural protein Chain: E: PDB Molecule: putative membrane transport protein; PDBTitle: crystal structure of zntb cytoplasmic domain from vibrio2 parahaemolyticus rimd 2210633
5	c2hn1A_	 Alignment		100.0	16	PDB header: metal transport Chain: A: PDB Molecule: magnesium and cobalt transporter; PDBTitle: crystal structure of a cora soluble domain from a. fulgidus in complex2 with co2+
6	d2bbha1	 Alignment		100.0	17	Fold: CorA soluble domain-like Superfamily: CorA soluble domain-like Family: CorA soluble domain-like
7	d2iuba2	 Alignment		99.4	18	Fold: Transmembrane helix hairpin Superfamily: Magnesium transport protein CorA, transmembrane region Family: Magnesium transport protein CorA, transmembrane region
8	d3cx5d2	 Alignment		64.2	13	Fold: Single transmembrane helix Superfamily: Cytochrome c1 subunit of cytochrome bc1 complex (Ubiquinol-cytochrome c reductase), transmembrane anchor Family: Cytochrome c1 subunit of cytochrome bc1 complex (Ubiquinol-cytochrome c reductase), transmembrane anchor
9	d1ppjd2	 Alignment		63.2	19	Fold: Single transmembrane helix Superfamily: Cytochrome c1 subunit of cytochrome bc1 complex (Ubiquinol-cytochrome c reductase), transmembrane anchor Family: Cytochrome c1 subunit of cytochrome bc1 complex (Ubiquinol-cytochrome c reductase), transmembrane anchor
10	c3fseB_	 Alignment		33.0	9	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
11	c1qcrD_	 Alignment		29.7	19	PDB header: PDB COMPND:

12	c3cwBQ_	Alignment		27.8	19	PDB header: oxidoreductase Chain: Q: PDB Molecule: mitochondrial cytochrome c1, heme protein; PDBTitle: chicken cytochrome bc1 complex inhibited by an iodinated analogue of2 the polyketide crocacin-d
13	c1p84D_	Alignment		27.3	13	PDB header: oxidoreductase Chain: D: PDB Molecule: cytochrome c1, heme protein; PDBTitle: hdbt inhibited yeast cytochrome bc1 complex
14	c2yiuE_	Alignment		27.2	6	PDB header: oxidoreductase Chain: E: PDB Molecule: cytochrome c1, heme protein; PDBTitle: x-ray structure of the dimeric cytochrome bc1 complex from2 the soil bacterium paracoccus denitrificans at 2.73 angstrom resolution
15	c3dl8H_	Alignment		26.6	13	PDB header: protein transport Chain: H: PDB Molecule: preprotein translocase subunit secy; PDBTitle: structure of the complex of aquifex aeolicus secyeg and2 bacillus subtilis seca
16	c1eboE_	Alignment		25.1	16	PDB header: viral protein Chain: E: PDB Molecule: ebola virus envelope protein chimera consisting PDBTitle: crystal structure of the ebola virus membrane-fusion2 subunit, gp2, from the envelope glycoprotein ectodomain
17	c3j01A_	Alignment		24.7	18	PDB header: ribosome/ribosomal protein Chain: A: PDB Molecule: preprotein translocase secy subunit; PDBTitle: structure of the ribosome-secy complex in the membrane environment
18	c2fynH_	Alignment		23.7	6	PDB header: oxidoreductase Chain: H: PDB Molecule: cytochrome c1; PDBTitle: crystal structure analysis of the double mutant rhodobacter2 sphaeroides bc1 complex
19	c3ghgK_	Alignment		21.7	10	PDB header: blood clotting Chain: K: PDB Molecule: fibrinogen beta chain; PDBTitle: crystal structure of human fibrinogen
20	c3tu8A_	Alignment		21.7	27	PDB header: unknown function Chain: A: PDB Molecule: burkholderia lethal factor 1 (blf1); PDBTitle: crystal structure of the burkholderia lethal factor 1 (blf1)
21	c1zrtD_	Alignment	not modelled	20.7	9	PDB header: oxidoreductase/metal transport Chain: D: PDB Molecule: cytochrome c1; PDBTitle: rhodobacter capsulatus cytochrome bc1 complex with2 stigmatellin bound
22	c3mkuA_	Alignment	not modelled	18.7	13	PDB header: transport protein Chain: A: PDB Molecule: multi antimicrobial extrusion protein (na(+))/drug PDBTitle: structure of a cation-bound multidrug and toxin compound extrusion2 (mate) transporter
23	c1s1iJ_	Alignment	not modelled	18.6	43	PDB header: ribosome Chain: J: PDB Molecule: 60s ribosomal protein l11; PDBTitle: structure of the ribosomal 80s-eef2-sordarin complex from2 yeast obtained by docking atomic models for rna and protein3 components into a 11.7 a cryo-em map. this file, 1s1i,4 contains 60s subunit. the 40s ribosomal subunit is in file5 1s1h.
24	c2akiY_	Alignment	not modelled	17.9	18	PDB header: protein transport Chain: Y: PDB Molecule: preprotein translocase secy subunit; PDBTitle: normal mode-based flexible fitted coordinates of a2 translocating secyeg protein-conducting channel into the3 cryo-em map of a secyeg-nascent chain-70s ribosome complex4 from e. coli
25	c4a1cD_	Alignment	not modelled	16.0	44	PDB header: ribosome Chain: D: PDB Molecule: 60s ribosomal protein l11; PDBTitle: t.thermophila 60s ribosomal subunit in complex with2 initiation factor 6. this file contains 5s rrna,3 5.8s rrna and proteins of molecule 4.
26	d1iwga8	Alignment	not modelled	15.2	11	Fold: Multidrug efflux transporter AcrB transmembrane domain Superfamily: Multidrug efflux transporter AcrB transmembrane domain Family: Multidrug efflux transporter AcrB transmembrane domain
27	c3rfuC_	Alignment	not modelled	15.2	10	PDB header: hydrolase, membrane protein Chain: C: PDB Molecule: copper efflux atpase; PDBTitle: crystal structure of a copper-transporting pib-type atpase
						Fold: Long alpha-hairpin

28	d1e52a_	Alignment	not modelled	14.8	27	Superfamily: C-terminal UvrC-binding domain of UvrB Family: C-terminal UvrC-binding domain of UvrB
29	d2d69a2	Alignment	not modelled	14.7	20	Fold: Ferredoxin-like Superfamily: RuBisCO, large subunit, small (N-terminal) domain Family: Ribulose 1,5-bisphosphate carboxylase-oxygenase
30	c1dkgB_	Alignment	not modelled	14.4	18	PDB header: complex (hsp24/hsp70) Chain: B: PDB Molecule: nucleotide exchange factor grpe; PDBTitle: crystal structure of the nucleotide exchange factor grpe2 bound to the atpase domain of the molecular chaperone dnak
31	c1oy8A_	Alignment	not modelled	13.6	24	PDB header: membrane protein Chain: A: PDB Molecule: acriflavine resistance protein b; PDBTitle: structural basis of multiple drug binding capacity of the acrb2 multidrug efflux pump
32	d1svda2	Alignment	not modelled	12.8	33	Fold: Ferredoxin-like Superfamily: RuBisCO, large subunit, small (N-terminal) domain Family: Ribulose 1,5-bisphosphate carboxylase-oxygenase
33	c1ei3E_	Alignment	not modelled	12.8	11	PDB header: PDB COMPND:
34	c2ks1B_	Alignment	not modelled	12.7	29	PDB header: transferase Chain: B: PDB Molecule: epidermal growth factor receptor; PDBTitle: heterodimeric association of transmembrane domains of erbb1 and erbb2 receptors enabling kinase activation
35	c2cpbA_	Alignment	not modelled	12.4	9	PDB header: viral protein Chain: A: PDB Molecule: m13 major coat protein; PDBTitle: solution nmr structures of the major coat protein of2 filamentous bacteriophage m13 solubilized in3 dodecylphosphocholine micelles, 25 lowest energy structures
36	c2akfC_	Alignment	not modelled	11.6	12	PDB header: protein binding Chain: C: PDB Molecule: coronin-1a; PDBTitle: crystal structure of the coiled-coil domain of coronin 1
37	c2akfB_	Alignment	not modelled	11.6	12	PDB header: protein binding Chain: B: PDB Molecule: coronin-1a; PDBTitle: crystal structure of the coiled-coil domain of coronin 1
38	c2akfA_	Alignment	not modelled	11.6	12	PDB header: protein binding Chain: A: PDB Molecule: coronin-1a; PDBTitle: crystal structure of the coiled-coil domain of coronin 1
39	d1bxna2	Alignment	not modelled	11.5	13	Fold: Ferredoxin-like Superfamily: RuBisCO, large subunit, small (N-terminal) domain Family: Ribulose 1,5-bisphosphate carboxylase-oxygenase
40	d1tqga_	Alignment	not modelled	11.5	14	Fold: Four-helical up-and-down bundle Superfamily: Histidine-containing phosphotransfer domain, HPT domain Family: Chemotaxis protein CheA P1 domain
41	d1i6za_	Alignment	not modelled	10.7	6	Fold: Spectrin repeat-like Superfamily: BAG domain Family: BAG domain
42	d1wh5a_	Alignment	not modelled	9.9	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Homeodomain
43	d2p61a1	Alignment	not modelled	9.6	12	Fold: Four-helical up-and-down bundle Superfamily: TM1646-like Family: TM1646-like
44	c2xzm7_	Alignment	not modelled	9.4	20	PDB header: ribosome Chain: 7: PDB Molecule: plectin/s10 domain containing protein; PDBTitle: crystal structure of the eukaryotic 40s ribosomal2 subunit in complex with initiation factor 1. this file3 contains the 40s subunit and initiation factor for4 molecule 1
45	c3qthA_	Alignment	not modelled	9.3	14	PDB header: unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a hypothetical dinb-like protein (cps_3021) from2 colwellia psychrerythraea 34h at 2.20 a resolution
46	c2p61A_	Alignment	not modelled	9.0	12	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: hypothetical protein tm_1646; PDBTitle: crystal structure of protein tm1646 from thermotoga2 maritima, pfam duf327
47	c3dinF_	Alignment	not modelled	8.8	18	PDB header: membrane protein, protein transport Chain: F: PDB Molecule: preprotein translocase subunit secy; PDBTitle: crystal structure of the protein-translocation complex formed by the2 secy channel and the seca atpase
48	c2zqpY_	Alignment	not modelled	8.8	16	PDB header: protein transport Chain: Y: PDB Molecule: preprotein translocase secy subunit; PDBTitle: crystal structure of secye translocon from thermus2 thermophilus
49	c1w5kB_	Alignment	not modelled	8.6	24	PDB header: four helix bundle Chain: B: PDB Molecule: general control protein gcn4; PDBTitle: an anti-parallel four helix bundle
50	c1w5kC_	Alignment	not modelled	8.6	24	PDB header: four helix bundle Chain: C: PDB Molecule: general control protein gcn4; PDBTitle: an anti-parallel four helix bundle
51	c1w5kA_	Alignment	not modelled	8.6	24	PDB header: four helix bundle Chain: A: PDB Molecule: general control protein gcn4; PDBTitle: an anti-parallel four helix bundle
52	c1w5kD_	Alignment	not modelled	8.6	24	PDB header: four helix bundle Chain: D: PDB Molecule: general control protein gcn4; PDBTitle: an anti-parallel four helix bundle
53	c3kyiA_	Alignment	not modelled	8.6	14	PDB header: transferase Chain: A: PDB Molecule: putative histidine protein kinase; PDBTitle: crystal structure of the phosphorylated p1 domain of chea3 in complex2 with chey6 from r. sphaeroides
						Fold: Single transmembrane helix Superfamily: Photosystem II reaction centre subunit H,

54	d1rzhh2	Alignment	not modelled	8.5	36	transmembrane region Family: Photosystem II reaction centre subunit H, transmembrane region
55	d2c2aa1	Alignment	not modelled	8.5	5	Fold: ROP-like Superfamily: Homodimeric domain of signal transducing histidine kinase Family: Homodimeric domain of signal transducing histidine kinase
56	c2qupA	Alignment	not modelled	8.5	17	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: bh1478 protein; PDBTitle: crystal structure of uncharacterized protein bh1478 from bacillus2 halodurans
57	c3u5gK	Alignment	not modelled	8.1	16	PDB header: ribosome Chain: K: PDB Molecule: 40s ribosomal protein s10-a; PDBTitle: the structure of the eukaryotic ribosome at 3.0 a resolution
58	d1l9bh2	Alignment	not modelled	7.9	36	Fold: Single transmembrane helix Superfamily: Photosystem II reaction centre subunit H, transmembrane region Family: Photosystem II reaction centre subunit H, transmembrane region
59	c2osza	Alignment	not modelled	7.9	13	PDB header: structural protein Chain: A: PDB Molecule: nucleoporin p58/p45; PDBTitle: structure of nup58/45 suggests flexible nuclear pore diameter by2 intermolecular sliding
60	d1oe4a	Alignment	not modelled	7.9	43	Fold: Uracil-DNA glycosylase-like Superfamily: Uracil-DNA glycosylase-like Family: Single-strand selective monofunctional uracil-DNA glycosylase SMUG1
61	d1qoja	Alignment	not modelled	7.7	28	Fold: Long alpha-hairpin Superfamily: C-terminal UvrC-binding domain of UvrB Family: C-terminal UvrC-binding domain of UvrB
62	c1htjF	Alignment	not modelled	7.6	12	PDB header: signaling protein Chain: F: PDB Molecule: kiaa0380; PDBTitle: structure of the rgs-like domain from pdz-rhogef
63	d1htjf	Alignment	not modelled	7.6	12	Fold: Regulator of G-protein signaling, RGS Superfamily: Regulator of G-protein signaling, RGS Family: Regulator of G-protein signaling, RGS
64	d1wpga4	Alignment	not modelled	7.6	8	Fold: Calcium ATPase, transmembrane domain M Superfamily: Calcium ATPase, transmembrane domain M Family: Calcium ATPase, transmembrane domain M
65	c2oltB	Alignment	not modelled	7.6	13	PDB header: unknown function Chain: B: PDB Molecule: hypothetical protein; PDBTitle: crystal structure of a phou-like protein (so_3770) from shewanella2 oneidensis mr-1 at 2.00 a resolution
66	d1wi3a	Alignment	not modelled	7.6	15	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Homeodomain
67	c2y69Y	Alignment	not modelled	7.6	13	PDB header: electron transport Chain: Y: PDB Molecule: cytochrome c oxidase subunit 7c; PDBTitle: bovine heart cytochrome c oxidase re-refined with molecular2 oxygen
68	c3c0uA	Alignment	not modelled	7.5	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein yaeq; PDBTitle: crystal structure of e.coli yaeq protein
69	d1u5pa1	Alignment	not modelled	7.4	14	Fold: Spectrin repeat-like Superfamily: Spectrin repeat Family: Spectrin repeat
70	d1mh3a1	Alignment	not modelled	7.4	4	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Homeodomain
71	c3ixza	Alignment	not modelled	7.3	9	PDB header: hydrolase Chain: A: PDB Molecule: potassium-transporting atpase alpha; PDBTitle: pig gastric h+/k+-atpase complexed with aluminium fluoride
72	c2dceA	Alignment	not modelled	7.3	13	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: kiaa1915 protein; PDBTitle: solution structure of the swirm domain of human kiaa19152 protein
73	d1i5na	Alignment	not modelled	7.3	14	Fold: Four-helical up-and-down bundle Superfamily: Histidine-containing phosphotransfer domain, HPT domain Family: Chemotaxis protein CheA P1 domain
74	c2lchA	Alignment	not modelled	7.2	15	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
75	c1s94A	Alignment	not modelled	7.2	11	PDB header: endocytosis/exocytosis Chain: A: PDB Molecule: s-syntaxin; PDBTitle: crystal structure of the habc domain of neuronal syntaxin from the2 squid loligo pealei
76	d1s94a	Alignment	not modelled	7.2	11	Fold: STAT-like Superfamily: t-snare proteins Family: t-snare proteins
77	d1h9aa2	Alignment	not modelled	7.2	13	Fold: FwdE/GAPDH domain-like Superfamily: Glyceraldehyde-3-phosphate dehydrogenase-like, C-terminal domain Family: Glucose 6-phosphate dehydrogenase-like
78	c1kmiZ	Alignment	not modelled	7.2	9	PDB header: signaling protein Chain: Z: PDB Molecule: chemotaxis protein chez; PDBTitle: crystal structure of an e.coli chemotaxis protein, chez
79	c3qngD	Alignment	not modelled	7.1	20	PDB header: membrane protein, transport protein Chain: D: PDB Molecule: pts system, cellobiose-specific iic component; PDBTitle: crystal structure of the transporter chbc, the iic component from the2 n,n'-diacetylchitobiose-specific

					phosphotransferase system
80	c2wwbA_	Alignment	not modelled	7.1	11
					PDB header: ribosome Chain: A: PDB Molecule: protein transport protein sec61 subunit alpha isoform 1; PDBTitle: cryo-em structure of the mammalian sec61 complex bound to the2 actively translating wheat germ 80s ribosome
81	c3r1fO_	Alignment	not modelled	7.1	11
					PDB header: transcription Chain: O: PDB Molecule: esx-1 secretion-associated regulator espr; PDBTitle: crystal structure of a key regulator of virulence in mycobacterium2 tuberculosis
82	d1uhsa_	Alignment	not modelled	7.0	8
					Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Homeodomain
83	d9anta_	Alignment	not modelled	7.0	13
					Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Homeodomain
84	d1e3oc1	Alignment	not modelled	6.9	9
					Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Homeodomain
85	d1s35a2	Alignment	not modelled	6.9	8
					Fold: Spectrin repeat-like Superfamily: Spectrin repeat Family: Spectrin repeat
86	d1d6za4	Alignment	not modelled	6.8	25
					Fold: N domain of copper amine oxidase-like Superfamily: Copper amine oxidase, domain N Family: Copper amine oxidase, domain N
87	d8ruca2	Alignment	not modelled	6.8	13
					Fold: Ferredoxin-like Superfamily: RuBisCO, large subunit, small (N-terminal) domain Family: Ribulose 1,5-bisphosphate carboxylase-oxygenase
88	c2vi6F_	Alignment	not modelled	6.7	17
					PDB header: transcription Chain: F: PDB Molecule: homeobox protein nanog; PDBTitle: crystal structure of the nanog homeodomain
89	d2rcrh2	Alignment	not modelled	6.7	36
					Fold: Single transmembrane helix Superfamily: Photosystem II reaction centre subunit H, transmembrane region Family: Photosystem II reaction centre subunit H, transmembrane region
90	c1nfoA_	Alignment	not modelled	6.7	4
					PDB header: lipid transport Chain: A: PDB Molecule: apolipoprotein e2; PDBTitle: apolipoprotein e2 (apoe2, d154a mutation)
91	c3movB_	Alignment	not modelled	6.7	24
					PDB header: structural protein Chain: B: PDB Molecule: lamin-b1; PDBTitle: crystal structure of human lamin-b1 coil 2 segment
92	c3b8eC_	Alignment	not modelled	6.6	13
					PDB header: hydrolase/transport protein Chain: C: PDB Molecule: sodium/potassium-transporting atpase subunit PDBTitle: crystal structure of the sodium-potassium pump
93	d1eysh2	Alignment	not modelled	6.6	25
					Fold: Single transmembrane helix Superfamily: Photosystem II reaction centre subunit H, transmembrane region Family: Photosystem II reaction centre subunit H, transmembrane region
94	c1gk4A_	Alignment	not modelled	6.5	19
					PDB header: vimentin Chain: A: PDB Molecule: vimentin; PDBTitle: human vimentin coil 2b fragment (cys2)
95	d1riqa1	Alignment	not modelled	6.5	12
					Fold: Putative anticodon-binding domain of alanyl-tRNA synthetase (AlaRS) Superfamily: Putative anticodon-binding domain of alanyl-tRNA synthetase (AlaRS) Family: Putative anticodon-binding domain of alanyl-tRNA synthetase (AlaRS)
96	d1le8a_	Alignment	not modelled	6.4	4
					Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Homeodomain
97	c3a7pB_	Alignment	not modelled	6.4	15
					PDB header: protein transport Chain: B: PDB Molecule: autophagy protein 16; PDBTitle: the crystal structure of saccharomyces cerevisiae atg16
98	c2l2tA_	Alignment	not modelled	6.4	21
					PDB header: membrane protein Chain: A: PDB Molecule: receptor tyrosine-protein kinase erbb-4; PDBTitle: solution nmr structure of the erbb4 dimeric membrane domain
99	d1du0a_	Alignment	not modelled	6.4	17
					Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Homeodomain