



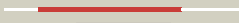












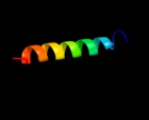

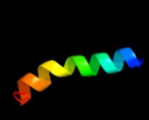







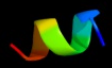
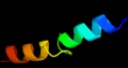




#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3hfxA_	 Alignment		100.0	24	PDB header: transport protein Chain: A: PDB Molecule: l-carnitine/gamma-butyrobetaine antiporter; PDBTitle: crystal structure of carnitine transporter
2	c2w8aC_	 Alignment		100.0	34	PDB header: membrane protein Chain: C: PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of the sodium-coupled glycine betaine2 symporter betp from corynebacterium glutamicum with bound3 substrate
3	c2xq2A_	 Alignment		98.5	15	PDB header: transport protein Chain: A: PDB Molecule: sodium/glucose cotransporter; PDBTitle: structure of the k294a mutant of vsglT
4	c3dh4A_	 Alignment		97.9	13	PDB header: transport protein Chain: A: PDB Molecule: sodium/glucose cotransporter; PDBTitle: crystal structure of sodium/sugar symporter with bound galactose from2 vibrio parahaemolyticus
5	d2a65a1	 Alignment		97.7	12	Fold: SNF-like Superfamily: SNF-like Family: SNF-like
6	c2jlnA_	 Alignment		97.5	10	PDB header: membrane protein Chain: A: PDB Molecule: mhp1; PDBTitle: structure of mhp1, a nucleobase-cation-symport-1 family2 transporter
7	c3giaA_	 Alignment		96.9	12	PDB header: transport protein Chain: A: PDB Molecule: uncharacterized protein mj0609; PDBTitle: crystal structure of apct transporter
8	c3lrcC_	 Alignment		94.1	14	PDB header: transport protein Chain: C: PDB Molecule: arginine/agmatine antiporter; PDBTitle: structure of e. coli adic (p1)
9	c1u7mB_	 Alignment		50.3	25	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
10	d1ylxa1	 Alignment		36.8	22	Fold: N domain of copper amine oxidase-like Superfamily: GK1464-like Family: GK1464-like
11	c2hz8A_	 Alignment		36.3	27	PDB header: de novo protein Chain: A: PDB Molecule: de novo designed diiron protein; PDBTitle: qm/mm structure refined from nmr-structure of a single2 chain diiron protein

12	c1lt1G_	Alignment		32.4	33	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
13	d1z21a1	Alignment		25.1	9	Fold: Phosphorylase/hydrolase-like Superfamily: Zn-dependent exopeptidases Family: Bacterial dinuclear zinc exopeptidases
14	d2cv4a1	Alignment		25.0	10	Fold: Thioredoxin fold Superfamily: Thioredoxin-like Family: Glutathione peroxidase-like
15	c3gztF_	Alignment		22.4	30	PDB header: virus Chain: F: PDB Molecule: outer capsid glycoprotein vp7; PDBTitle: vp7 re-coated rotavirus dlp
16	c3s0xB_	Alignment		22.4	12	PDB header: hydrolase Chain: B: PDB Molecule: peptidase a24b, flak domain protein; PDBTitle: the crystal structure of gxgd membrane protease flak
17	c2kvlA_	Alignment		20.6	33	PDB header: viral protein Chain: A: PDB Molecule: major outer capsid protein vp7; PDBTitle: nmr structure of the c-terminal domain of vp7
18	d2axtm1	Alignment		19.8	31	Fold: Single transmembrane helix Superfamily: Photosystem II reaction center protein M, PsbM Family: PsbM-like
19	d1j5ya2	Alignment		19.0	12	Fold: HPr-like Superfamily: Putative transcriptional regulator TM1602, C-terminal domain Family: Putative transcriptional regulator TM1602, C-terminal domain
20	d2guka1	Alignment		17.6	45	Fold: PG1857-like Superfamily: PG1857-like Family: PG1857-like
21	c3g40A_	Alignment	not modelled	16.7	16	PDB header: transport protein Chain: A: PDB Molecule: na-k-cl cotransporter; PDBTitle: crystal structure of the cytoplasmic domain of a2 prokaryotic cation chloride cotransporter Fold: Heme-binding four-helical bundle Superfamily: Fumarate reductase respiratory complex transmembrane subunits Family: Succinate dehydrogenase/Fumarate reductase transmembrane subunits (SdhC/FrdC and SdhD/FrdD)
22	d1kf6d_	Alignment	not modelled	15.6	18	PDB header: protein binding Chain: A: PDB Molecule: histidyl-trna synthetase; PDBTitle: solution structures of the whep-trs domain of human2 histidyl-trna synthetase
23	c1x59A_	Alignment	not modelled	15.2	60	PDB header: transcription regulator Chain: B: PDB Molecule: putative transcriptional regulator; PDBTitle: crystal structure of putative transcriptional regulator2 (jann_22dec04_contig27_revised_gene3569) from jannaschia sp. ccs1 at3 2.81 a resolution
24	c3l09B_	Alignment	not modelled	14.8	19	PDB header: blood clotting Chain: D: PDB Molecule: streptokinase; PDBTitle: complex of the catalytic domain of human plasmin and streptokinase
25	c1bm1D_	Alignment	not modelled	14.8	16	Fold: beta-Grasp (ubiquitin-like) Superfamily: Staphylokinase/streptokinase Family: Staphylokinase/streptokinase
26	d1c4pc_	Alignment	not modelled	13.7	15	PDB header: metal transport Chain: A: PDB Molecule: kir3.1-prokaryotic kir channel chimera; PDBTitle: crystal structure of a kir3.1-prokaryotic kir channel chimera
27	c2qksA_	Alignment	not modelled	13.5	16	PDB header: nuclear protein Chain: D: PDB Molecule: protein dpy-30 homolog; PDBTitle: crystal structure of the human dpy-30-like c-terminal
28	c3g36D_	Alignment	not modelled	13.4	13	

					domain
29	c3u4gA_	Alignment	not modelled	13.3	37 PDB header: transferase Chain: A: PDB Molecule: namn:dmb phosphoribosyltransferase; PDBTitle: the structure of cobt from pyrococcus horikoshii
30	d1a7ja_	Alignment	not modelled	13.2	21 Fold: P-loop containing nucleoside triphosphate hydrolases Superfamily: P-loop containing nucleoside triphosphate hydrolases Family: Phosphoribulokinase/pantothenate kinase
31	d2f2ha1	Alignment	not modelled	12.8	25 Fold: Putative glucosidase YicI, C-terminal domain Superfamily: Putative glucosidase YicI, C-terminal domain Family: Putative glucosidase YicI, C-terminal domain
32	d2p6va1	Alignment	not modelled	12.7	24 Fold: TAFH domain-like Superfamily: TAFH domain-like Family: TAFH domain-like
33	d2vo9a1	Alignment	not modelled	11.7	12 Fold: Hedgehog/DD-peptidase Superfamily: Hedgehog/DD-peptidase Family: VanY-like
34	c2z9oB_	Alignment	not modelled	10.6	6 PDB header: replication/dna Chain: B: PDB Molecule: replication initiation protein; PDBTitle: crystal structure of the dimeric form of repe in complex with the repe2 operator dna
35	c1z0zC_	Alignment	not modelled	10.0	17 PDB header: transferase Chain: C: PDB Molecule: probable inorganic polyphosphate/atp-nad kinase; PDBTitle: crystal structure of a nad kinase from archaeoglobus2 fulgidus in complex with nad
36	d1s0yb_	Alignment	not modelled	10.0	36 Fold: Tautomerase/MIF Superfamily: Tautomerase/MIF Family: 4-oxalocrotonate tautomerase-like
37	d2g3qa1	Alignment	not modelled	9.7	20 Fold: RuvA C-terminal domain-like Superfamily: UBA-like Family: UBA domain
38	c3ej9D_	Alignment	not modelled	9.7	36 PDB header: hydrolase Chain: D: PDB Molecule: beta-subunit of trans-3-chloroacrylic acid dehalogenase; PDBTitle: structural and mechanistic analysis of trans-3-chloroacrylic acid2 dehalogenase activity
39	c2ksnA_	Alignment	not modelled	9.5	15 PDB header: signaling protein Chain: A: PDB Molecule: ubiquitin domain-containing protein 2; PDBTitle: solution structure of the n-terminal domain of dc-ubp/ubtd2
40	c3eofB_	Alignment	not modelled	9.3	21 PDB header: oxidoreductase Chain: B: PDB Molecule: putative oxidoreductase; PDBTitle: crystal structure of putative oxidoreductase (yp_213212.1) from2 bacteroides fragilis nctc 9343 at 1.99 a resolution
41	d1z0sa1	Alignment	not modelled	9.0	17 Fold: NAD kinase/diacylglycerol kinase-like Superfamily: NAD kinase/diacylglycerol kinase-like Family: NAD kinase-like
42	c3kl9F_	Alignment	not modelled	8.9	12 PDB header: hydrolase Chain: F: PDB Molecule: glutamyl aminopeptidase; PDBTitle: crystal structure of pepa from streptococcus pneumoniae
43	c2dn9A_	Alignment	not modelled	8.9	9 PDB header: apoptosis, chaperone Chain: A: PDB Molecule: dnaj homolog subfamily a member 3; PDBTitle: solution structure of j-domain from the dnaj homolog, human2 tid1 protein
44	c3zqsB_	Alignment	not modelled	8.9	8 PDB header: ligase Chain: B: PDB Molecule: e3 ubiquitin-protein ligase fancI; PDBTitle: human fancI central domain
45	c3by7E_	Alignment	not modelled	8.8	50 PDB header: unknown function Chain: E: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a protein structurally similar to sm/lsm-like2 rna-binding proteins (jcvi_pep_1096686650277) from uncultured marine3 organism at 2.60 a resolution
46	d1gxma_	Alignment	not modelled	8.7	28 Fold: alpha/alpha toroid Superfamily: Family 10 polysaccharide lyase Family: Family 10 polysaccharide lyase
47	d1f9fa_	Alignment	not modelled	8.6	16 Fold: Ferredoxin-like Superfamily: Viral DNA-binding domain Family: Viral DNA-binding domain
48	c2la3A_	Alignment	not modelled	8.3	10 PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: the nmr structure of the protein np_344798.1 reveals a cca-adding2 enzyme head domain
49	d1repc2	Alignment	not modelled	8.3	6 Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Replication initiation protein
50	c3lklB_	Alignment	not modelled	8.2	19 PDB header: transport protein Chain: B: PDB Molecule: antisigma-factor antagonist stas; PDBTitle: crystal structure of the c-terminal domain of anti-sigma factor2 antagonist stas from rhodobacter sphaeroides
51	c2vo9C_	Alignment	not modelled	8.1	12 PDB header: hydrolase Chain: C: PDB Molecule: l-alanyl-d-glutamate peptidase; PDBTitle: crystal structure of the enzymatically active domain of the2 listeria monocytogenes bacteriophage 500 endolysin ply500
52	c1pk1B_	Alignment	not modelled	8.1	10 PDB header: transcription repression Chain: B: PDB Molecule: sex comb on midleg cg9495-pa; PDBTitle: hetero sam domain structure of ph and scm.
53	d2a7sa1	Alignment	not modelled	8.1	19 Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Biotin dependent carboxylase carboxyltransferase domain
54	d3b45a1	Alignment	not modelled	8.0	20 Fold: Rhomboid-like Superfamily: Rhomboid-like

						Family: Rhomboid-like
55	c2jnvA_	Alignment	not modelled	7.9	6	PDB header: metal transport Chain: A: PDB Molecule: nifu-like protein 1, chloroplast; PDBTitle: solution structure of c-terminal domain of nifu-like2 protein from oryza sativa
56	c3rzaA_	Alignment	not modelled	7.9	8	PDB header: hydrolase Chain: A: PDB Molecule: tripeptidase; PDBTitle: crystal structure of a tripeptidase (sav1512) from staphylococcus2 aureus subsp. aureus mu50 at 2.10 a resolution
57	d1y0ua_	Alignment	not modelled	7.9	24	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: ArsR-like transcriptional regulators
58	d1o5wa2	Alignment	not modelled	7.8	9	Fold: FAD-linked reductases, C-terminal domain Superfamily: FAD-linked reductases, C-terminal domain Family: L-aminoacid/polyamine oxidase
59	c2l69A_	Alignment	not modelled	7.8	29	PDB header: de novo protein Chain: A: PDB Molecule: rossmann 2x3 fold protein; PDBTitle: solution nmr structure of de novo designed protein, p-loop ntpase2 fold, northeast structural genomics consortium target or28
60	c3jycA_	Alignment	not modelled	7.7	21	PDB header: metal transport Chain: A: PDB Molecule: inward-rectifier k+ channel kir2.2; PDBTitle: crystal structure of the eukaryotic strong inward-rectifier2 k+ channel kir2.2 at 3.1 angstrom resolution
61	d1r76a_	Alignment	not modelled	7.7	18	Fold: alpha/alpha toroid Superfamily: Family 10 polysaccharide lyase Family: Family 10 polysaccharide lyase
62	d1vrqa1	Alignment	not modelled	7.7	19	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Biotin dependent carboxylase carboxyltransferase domain
63	c3ps5A_	Alignment	not modelled	7.7	10	PDB header: hydrolase, signaling protein Chain: A: PDB Molecule: tyrosine-protein phosphatase non-receptor type 6; PDBTitle: crystal structure of the full-length human protein tyrosine2 phosphatase shp-1
64	d1z3xa1	Alignment	not modelled	7.6	20	Fold: alpha-alpha superhelix Superfamily: ARM repeat Family: GUN4-associated domain
65	c3gycB_	Alignment	not modelled	7.4	16	PDB header: hydrolase Chain: B: PDB Molecule: putative glycoside hydrolase; PDBTitle: crystal structure of putative glycoside hydrolase (yp_001304622.1)2 from parabacteroides distasonis atcc 8503 at 1.85 a resolution
66	c3c4rC_	Alignment	not modelled	7.4	11	PDB header: structural genomics, unknown function Chain: C: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of an uncharacterized protein encoded by2 cryptic prophage
67	d1qgra_	Alignment	not modelled	7.4	13	Fold: beta-Grasp (ubiquitin-like) Superfamily: Staphylokinase/streptokinase Family: Staphylokinase/streptokinase
68	d2j8cl1	Alignment	not modelled	7.3	14	Fold: Bacterial photosystem II reaction centre, L and M subunits Superfamily: Bacterial photosystem II reaction centre, L and M subunits Family: Bacterial photosystem II reaction centre, L and M subunits
69	c2k10A_	Alignment	not modelled	7.3	36	PDB header: antimicrobial protein Chain: A: PDB Molecule: ranatuerin-2csa; PDBTitle: confirmationnal analysis of the broad-spectrum antibacterial2 peptide, rantuerin-2csa: identification of a full length3 helix-turn-helix motif
70	c3kv1A_	Alignment	not modelled	7.2	9	PDB header: transcription Chain: A: PDB Molecule: transcriptional repressor; PDBTitle: crystal structure of putative sugar-binding domain of transcriptional2 repressor from vibrio fischeri
71	d1pixa2	Alignment	not modelled	7.2	11	Fold: ClpP/crotonase Superfamily: ClpP/crotonase Family: Biotin dependent carboxylase carboxyltransferase domain
72	d1egwa_	Alignment	not modelled	7.1	10	Fold: SRF-like Superfamily: SRF-like Family: SRF-like
73	c2bj3D_	Alignment	not modelled	7.1	20	PDB header: transcription Chain: D: PDB Molecule: nickel responsive regulator; PDBTitle: nikr-apo
74	c3au5B_	Alignment	not modelled	7.0	18	PDB header: motor protein Chain: B: PDB Molecule: myosin-x; PDBTitle: structure of the human myosin-x myth4-ferm cassette
75	d1nj1a1	Alignment	not modelled	7.0	12	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
76	d1rh5a_	Alignment	not modelled	7.0	13	Fold: Preprotein translocase SecY subunit Superfamily: Preprotein translocase SecY subunit Family: Preprotein translocase SecY subunit
77	c1v85A_	Alignment	not modelled	7.0	10	PDB header: apoptosis Chain: A: PDB Molecule: similar to ring finger protein 36; PDBTitle: sterile alpha motif (sam) domain of mouse bifunctional2 apoptosis regulator
78	d1pk3a1	Alignment	not modelled	7.0	10	Fold: SAM domain-like Superfamily: SAM/Pointed domain Family: SAM (sterile alpha motif) domain
79	d1udxa3	Alignment	not modelled	7.0	17	Fold: Obg GTP-binding protein C-terminal domain Superfamily: Obg GTP-binding protein C-terminal domain Family: Obg GTP-binding protein C-terminal domain
						Fold: Ribbon-helix-helix

80	d2hzaa1	Alignment	not modelled	7.0	27	Superfamily: Ribbon-helix-helix Family: CopG-like
81	c3kpaB	Alignment	not modelled	7.0	33	PDB header: ligase Chain: B: PDB Molecule: probable ubiquitin fold modifier conjugating enzyme; PDBTitle: ubiquitin fold modifier conjugating enzyme from leishmania major2 (probable)
82	d2p41a1	Alignment	not modelled	6.9	27	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: mRNA cap methylase
83	c2o9xA	Alignment	not modelled	6.9	18	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: reductase, assembly protein; PDBTitle: crystal structure of a putative redox enzyme maturation protein from2 archaeoglobus fulgidus
84	c1q5vB	Alignment	not modelled	6.9	33	PDB header: transcription Chain: B: PDB Molecule: nickel responsive regulator; PDBTitle: apo-nikr
85	c1usdA	Alignment	not modelled	6.8	35	PDB header: signaling protein Chain: A: PDB Molecule: vasodilator-stimulated phosphoprotein; PDBTitle: human vasp tetramerisation domain I352m
86	c3bm2B	Alignment	not modelled	6.8	9	PDB header: oxidoreductase Chain: B: PDB Molecule: protein ydja; PDBTitle: crystal structure of a minimal nitroreductase ydja from escherichia2 coli k12 with and without fmh cofactor
87	c3eyvA	Alignment	not modelled	6.8	16	PDB header: transport Chain: A: PDB Molecule: putative iron uptake regulatory protein; PDBTitle: structural basis for the specialization of nur, a nickel-2 specific fur homologue, in metal sensing and dna3 recognition
88	c3k7cC	Alignment	not modelled	6.8	10	PDB header: protein binding Chain: C: PDB Molecule: putative ntf2-like transpeptidase; PDBTitle: crystal structure of putative ntf2-like transpeptidase (np_281412.1)2 from campylobacter jejuni at 2.00 a resolution
89	c3qyfA	Alignment	not modelled	6.8	15	PDB header: antiviral protein Chain: A: PDB Molecule: crispr-associated protein; PDBTitle: crystal structure of the crispr-associated protein sso1393 from2 sulfobolus solfataricus
90	c3komB	Alignment	not modelled	6.8	9	PDB header: transferase Chain: B: PDB Molecule: transketolase; PDBTitle: crystal structure of apo transketolase from francisella tularensis
91	d1ej5a	Alignment	not modelled	6.7	25	Fold: Wiscott-Aldrich syndrome protein, WASP, C-terminal domain Superfamily: Wiscott-Aldrich syndrome protein, WASP, C-terminal domain Family: Wiscott-Aldrich syndrome protein, WASP, C-terminal domain
92	c3o5cA	Alignment	not modelled	6.7	10	PDB header: oxidoreductase Chain: A: PDB Molecule: cytochrome c551 peroxidase; PDBTitle: cytochrome c peroxidase bccp of shewanella oneidensis
93	d1y5ic1	Alignment	not modelled	6.7	9	Fold: Heme-binding four-helical bundle Superfamily: Respiratory nitrate reductase 1 gamma chain Family: Respiratory nitrate reductase 1 gamma chain
94	d2otaa1	Alignment	not modelled	6.7	36	Fold: YejL-like Superfamily: YejL-like Family: YejL-like
95	c3lloA	Alignment	not modelled	6.7	22	PDB header: motor protein Chain: A: PDB Molecule: prestin; PDBTitle: crystal structure of the stas domain of motor protein prestin (anion2 transporter slc26a5)
96	c3ng0A	Alignment	not modelled	6.7	8	PDB header: ligase Chain: A: PDB Molecule: glutamine synthetase; PDBTitle: crystal structure of glutamine synthetase from synechocystis sp. pcc2 6803
97	d2hzab1	Alignment	not modelled	6.6	27	Fold: Ribbon-helix-helix Superfamily: Ribbon-helix-helix Family: CopG-like
98	d1ji5a	Alignment	not modelled	6.6	17	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
99	c2ca9B	Alignment	not modelled	6.6	20	PDB header: transcriptional regulation Chain: B: PDB Molecule: putative nickel-responsive regulator; PDBTitle: apo-nikr from helicobacter pylori in closed trans-2 conformation