





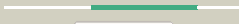






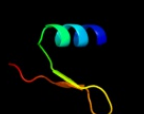










Phyre2

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Description	P22524
Date	Thu Jan 5 11:38:55 GMT 2012
Unique Job ID	7979ca7f2bfb79fd

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3euhF_	 Alignment		100.0	100	PDB header: cell cycle Chain: F: PDB Molecule: muke; PDBTitle: crystal structure of the muke-mukf complex
2	c3eukL_	 Alignment		100.0	69	PDB header: cell cycle Chain: L: PDB Molecule: chromosome partition protein muke; PDBTitle: crystal structure of muke-mukf(residues 292-443)-mukb(head2 domain)-atpgammas complex, asymmetric dimer
3	c2y75F_	 Alignment		68.1	17	PDB header: transcription Chain: F: PDB Molecule: hth-type transcriptional regulator cymr; PDBTitle: the structure of cymr (yrzc) the global cysteine regulator2 of b. subtilis
4	c3lwfD_	 Alignment		45.7	18	PDB header: transcription regulator Chain: D: PDB Molecule: putative transcriptional regulator; PDBTitle: crystal structure of putative transcriptional regulator (np_470886.1)2 from listeria innocua at 2.06 a resolution
5	c1eg4A_	 Alignment		35.4	16	PDB header: structural protein Chain: A: PDB Molecule: dystrophin; PDBTitle: structure of a dystrophin ww domain fragment in complex2 with a beta-dystroglycan peptide
6	d1u5ta1	 Alignment		28.3	25	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Vacuolar sorting protein domain
7	c3k69A_	 Alignment		27.7	14	PDB header: transcription Chain: A: PDB Molecule: putative transcription regulator; PDBTitle: crystal structure of a putative transcriptional regulator (lp_0360)2 from lactobacillus plantarum at 1.95 a resolution
8	c3l09B_	 Alignment		25.0	23	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
9	d1e2ta_	 Alignment		24.0	21	Fold: Cysteine proteinases Superfamily: Cysteine proteinases Family: Arylamine N-acetyltransferase
10	c3d9wA_	 Alignment		23.2	32	PDB header: transferase Chain: A: PDB Molecule: putative acetyltransferase; PDBTitle: crystal structure analysis of nocardia farcinica arylamine2 n-acetyltransferase
11	d2g9wa1	 Alignment		23.0	23	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Penicillinase repressor

29	c2rn5B_	Alignment	not modelled	12.7	50	Chain: B: PDB Molecule: insulin; PDBTitle: humal insulin mutant b31lys-b32arg
30	d1e4cp_	Alignment	not modelled	12.6	24	Fold: AraD/HMP-PK domain-like Superfamily: AraD/HMP-PK domain-like Family: AraD-like aldolase/epimerase
31	d1j93a_	Alignment	not modelled	12.3	9	Fold: TIM beta/alpha-barrel Superfamily: UROD/MetE-like Family: Uroporphyrinogen decarboxylase, UROD
32	c2zmeA_	Alignment	not modelled	11.4	27	PDB header: protein transport Chain: A: PDB Molecule: vacuolar-sorting protein snf8; PDBTitle: integrated structural and functional model of the human escrt-ii2 complex
33	c3g12A_	Alignment	not modelled	11.2	10	PDB header: lyase Chain: A: PDB Molecule: putative lactoylglutathione lyase; PDBTitle: crystal structure of a putative lactoylglutathione lyase2 from bdellovibrio bacteriovorus
34	c2p1nD_	Alignment	not modelled	10.8	15	PDB header: signaling protein Chain: D: PDB Molecule: skp1-like protein 1a; PDBTitle: mechanism of auxin perception by the tir1 ubiquitin ligase
35	d1mzba_	Alignment	not modelled	10.8	17	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: FUR-like
36	c2lbfA_	Alignment	not modelled	10.7	28	PDB header: ribosomal protein Chain: A: PDB Molecule: 60s acidic ribosomal protein p1; PDBTitle: solution structure of the dimerization domain of human ribosomal2 protein p1/p2 heterodimer
37	c3iynN_	Alignment	not modelled	10.6	22	PDB header: virus Chain: N: PDB Molecule: peripentonal hexon-associated protein; PDBTitle: 3.6-angstrom cryoem structure of human adenovirus type 5
38	c2dvzA_	Alignment	not modelled	10.5	10	PDB header: transport protein Chain: A: PDB Molecule: putative exported protein; PDBTitle: structure of a periplasmic transporter
39	c1t98B_	Alignment	not modelled	10.3	14	PDB header: cell cycle Chain: B: PDB Molecule: chromosome partition protein mukf; PDBTitle: crystal structure of mukf(1-287)
40	d1tgra_	Alignment	not modelled	10.0	14	Fold: Insulin-like Superfamily: Insulin-like Family: Insulin-like
41	c2fk5B_	Alignment	not modelled	10.0	28	PDB header: lyase Chain: B: PDB Molecule: fucose-1-phosphate aldolase; PDBTitle: crystal structure of l-fucose-1-phosphate aldolase from thermus2 thermophilus hb8
42	c3q90A_	Alignment	not modelled	10.0	30	PDB header: hydrolase Chain: A: PDB Molecule: ras gtpase-activating protein-binding protein 1; PDBTitle: crystal structure of the ntf2 domain of ras gtpase-activating protein-2 binding protein 1
43	c2ovqA_	Alignment	not modelled	9.8	14	PDB header: transcription/cell cycle Chain: A: PDB Molecule: s-phase kinase-associated protein 1a; PDBTitle: structure of the skp1-fbw7-cyclinedegc complex
44	d1mkma1	Alignment	not modelled	9.8	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Transcriptional regulator IclR, N-terminal domain
45	d1l1sa_	Alignment	not modelled	9.8	22	Fold: DsrEFH-like Superfamily: DsrEFH-like Family: DsrEF-like
46	d1jicb2	Alignment	not modelled	9.7	23	Fold: Putative DNA-binding domain Superfamily: Putative DNA-binding domain Family: Domains B1 and B5 of PheRS-beta, PheT
47	c3lnbA_	Alignment	not modelled	9.4	27	PDB header: transferase Chain: A: PDB Molecule: n-acetyltransferase family protein; PDBTitle: crystal structure analysis of arylamine n-acetyltransferase c from2 bacillus anthracis
48	d2ex3b1	Alignment	not modelled	9.4	14	Fold: DNA terminal protein Superfamily: DNA terminal protein Family: DNA terminal protein
49	c2o4cB_	Alignment	not modelled	9.2	17	PDB header: oxidoreductase Chain: B: PDB Molecule: erythronate-4-phosphate dehydrogenase; PDBTitle: crystal structure of d-erythronate-4-phosphate dehydrogenase complexed2 with nad
50	c1qovA_	Alignment	not modelled	9.2	8	PDB header: toxin Chain: A: PDB Molecule: hemolysin e; PDBTitle: e.coli hemolysin e (hlye, clya, shea)
51	d1eCSA_	Alignment	not modelled	9.0	17	Fold: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Superfamily: Glyoxalase/Bleomycin resistance protein/Dihydroxybiphenyl dioxygenase Family: Antibiotic resistance proteins
52	c3edpB_	Alignment	not modelled	8.9	15	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: lin2111 protein; PDBTitle: the crystal structure of the protein lin2111 (functionally unknown)2 from listeria innocua clp11262
53	d1xd7a_	Alignment	not modelled	8.6	9	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Transcriptional regulator Rrf2
54	d1ylfa1	Alignment	not modelled	8.6	16	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Transcriptional regulator Rrf2
55	c3iz5t_	Alignment	not modelled	8.3	31	PDB header: ribosome Chain: T: PDB Molecule: 60s ribosomal protein l19 (l19e); PDBTitle: localization of the large subunit ribosomal proteins into

						a 5.5 a2 cryo-em map of triticum aestivum translating 80s ribosome
56	d1stza1	Alignment	not modelled	8.0	9	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Heat-inducible transcription repressor HrcA, N-terminal domain
57	c3oetF_	Alignment	not modelled	8.0	11	PDB header: oxidoreductase Chain: F: PDB Molecule: erythronate-4-phosphate dehydrogenase; PDBTitle: d-erythronate-4-phosphate dehydrogenase complexed with nad
58	c3eqxB_	Alignment	not modelled	7.8	11	PDB header: dna binding protein Chain: B: PDB Molecule: fic domain containing transcriptional regulator; PDBTitle: crystal structure of a fic family protein (so_4266) from shewanella2 oneidensis at 1.6 a resolution
59	d1feaa_	Alignment	not modelled	7.6	20	Fold: Insulin-like Superfamily: Insulin-like Family: Insulin-like
60	d2fnaa1	Alignment	not modelled	7.3	12	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Helicase DNA-binding domain
61	c3euhB_	Alignment	not modelled	7.3	10	PDB header: cell cycle Chain: B: PDB Molecule: chromosome partition protein mukf; PDBTitle: crystal structure of the muke-mukf complex
62	c2fe3B_	Alignment	not modelled	7.3	19	PDB header: dna binding protein Chain: B: PDB Molecule: peroxide operon regulator; PDBTitle: the crystal structure of bacillus subtilis perr-zn reveals a novel2 zn(cys)4 structural redox switch
63	c3g2bA_	Alignment	not modelled	7.0	8	PDB header: biosynthetic protein Chain: A: PDB Molecule: coenzyme pqq synthesis protein d; PDBTitle: crystal structure of pqqd from xanthomonas campestris
64	d2e45a1	Alignment	not modelled	7.0	13	Fold: WW domain-like Superfamily: WW domain Family: WW domain
65	c2g7uB_	Alignment	not modelled	7.0	24	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: transcriptional regulator; PDBTitle: 2.3 a structure of putative catechol degradative operon regulator from2 rhodococcus sp. rha1
66	d1zeia_	Alignment	not modelled	6.8	26	Fold: Insulin-like Superfamily: Insulin-like Family: Insulin-like
67	d1jhfa1	Alignment	not modelled	6.8	22	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: LexA repressor, N-terminal DNA-binding domain
68	d1sd4a_	Alignment	not modelled	6.8	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Penicillinase repressor
69	c3mwmA_	Alignment	not modelled	6.6	25	PDB header: transcription Chain: A: PDB Molecule: putative metal uptake regulation protein; PDBTitle: graded expression of zinc-responsive genes through two regulatory2 zinc-binding sites in zur
70	d2b5ga1	Alignment	not modelled	6.4	19	Fold: Acyl-CoA N-acyltransferases (Nat) Superfamily: Acyl-CoA N-acyltransferases (Nat) Family: N-acetyl transferase, NAT
71	d1ledla_	Alignment	not modelled	6.4	32	Fold: immunoglobulin/albumin-binding domain-like Superfamily: Bacterial immunoglobulin/albumin-binding domains Family: Immunoglobulin-binding protein A modules
72	d1d1la_	Alignment	not modelled	6.3	38	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: Phage repressors
73	c3m1gC_	Alignment	not modelled	6.3	17	PDB header: transferase Chain: C: PDB Molecule: putative glutathione s-transferase; PDBTitle: the structure of a putative glutathione s-transferase from2 corynebacterium glutamicum
74	d1w5ra1	Alignment	not modelled	6.3	27	Fold: Cysteine proteinases Superfamily: Cysteine proteinases Family: Arylamine N-acetyltransferase
75	d2al6a3	Alignment	not modelled	6.2	25	Fold: beta-Grasp (ubiquitin-like) Superfamily: Ubiquitin-like Family: First domain of FERM
76	c3gy9A_	Alignment	not modelled	6.2	16	PDB header: transferase Chain: A: PDB Molecule: gcn5-related n-acetyltransferase; PDBTitle: crystal structure of putative acetyltransferase (yp_001815201.1) from2 exiguobacterium sp. 255-15 at 1.52 a resolution
77	d1lp1a_	Alignment	not modelled	6.1	21	Fold: immunoglobulin/albumin-binding domain-like Superfamily: Bacterial immunoglobulin/albumin-binding domains Family: Immunoglobulin-binding protein A modules
78	d4croa_	Alignment	not modelled	5.8	38	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: Phage repressors
79	c1jpka_	Alignment	not modelled	5.8	17	PDB header: lyase Chain: A: PDB Molecule: uroporphyrinogen decarboxylase; PDBTitle: gly156asp mutant of human urod, human uroporphyrinogen iii2 decarboxylase
80	c3f8mA_	Alignment	not modelled	5.8	31	PDB header: transcription Chain: A: PDB Molecule: gntr-family protein transcriptional regulator; PDBTitle: crystal structure of phnf from mycobacterium smegmatis
81	c2advB_	Alignment	not modelled	5.8	43	PDB header: hydrolase Chain: B: PDB Molecule: glutaryl 7- aminocephalosporanic acid acylase; PDBTitle: crystal structures of glutaryl 7-aminocephalosporanic acid acylase:2 mutational study of activation mechanism

82	d2v5pc1	Alignment	not modelled	5.7	17	Fold: Insulin-like Superfamily: Insulin-like Family: Insulin-like
83	c2de0X	Alignment	not modelled	5.7	13	PDB header: transferase Chain: X: PDB Molecule: alpha-(1,6)-fucosyltransferase; PDBTitle: crystal structure of human alpha 1,6-fucosyltransferase, fut8
84	d1pmxa	Alignment	not modelled	5.6	16	Fold: Insulin-like Superfamily: Insulin-like Family: Insulin-like
85	c3ic7A	Alignment	not modelled	5.4	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative transcriptional regulator; PDBTitle: crystal structure of putative transcriptional regulator of gntR family2 from bacteroides thetaiotaomicron
86	c2du9A	Alignment	not modelled	5.4	10	PDB header: transcription Chain: A: PDB Molecule: predicted transcriptional regulators; PDBTitle: crystal structure of the transcriptional factor from c.glutamicum
87	d1r3sa	Alignment	not modelled	5.4	17	Fold: TIM beta/alpha-barrel Superfamily: UROD/MetE-like Family: Uroporphyrinogen decarboxylase, UROD
88	c2jobA	Alignment	not modelled	5.3	19	PDB header: lipid binding protein Chain: A: PDB Molecule: antilipopolysaccharide factor; PDBTitle: solution structure of an antilipopolysaccharide factor from2 shrimp and its possible lipid a binding site
89	d2cyva1	Alignment	not modelled	5.3	14	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Lrp/AsnC-like transcriptional regulator N-terminal domain
90	c2qpqC	Alignment	not modelled	5.3	3	PDB header: transport protein Chain: C: PDB Molecule: protein bug27; PDBTitle: structure of bug27 from bordetella pertussis
91	d1nn4a	Alignment	not modelled	5.2	11	Fold: Ribose/Galactose isomerase RpiB/AlsB Superfamily: Ribose/Galactose isomerase RpiB/AlsB Family: Ribose/Galactose isomerase RpiB/AlsB
92	c3izct	Alignment	not modelled	5.2	12	PDB header: ribosome Chain: T: PDB Molecule: 60s ribosomal protein rpl19 (I19e); PDBTitle: localization of the large subunit ribosomal proteins into a 6.1 a2 cryo-em map of saccharomyces cerevisiae translating 80s ribosome