




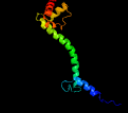







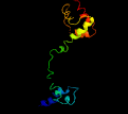



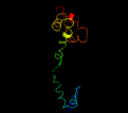




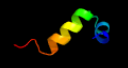





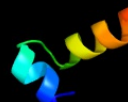

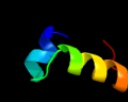


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD1643_(rpIT)_1853191_1853580
 Date Fri Aug 2 13:30:24 BST 2019
 Unique Job ID fbf430b83cfe2ed4

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5o60R_	 Alignment		100.0	91	PDB header: ribosome Chain: R; PDB Molecule: 50s ribosomal protein l20; PDBTitle: structure of the 50s large ribosomal subunit from mycobacterium2 smegmatis
2	c4v19U_	 Alignment		100.0	33	PDB header: ribosome Chain: U; PDB Molecule: mitoribosomal protein bl20m, mrpl20; PDBTitle: structure of the large subunit of the mammalian mitoribosome, part 12 of 2
3	d2j01u1	 Alignment		100.0	50	Fold: PABP domain-like Superfamily: Ribosomal protein L20 Family: Ribosomal protein L20
4	d2zjrn1	 Alignment		100.0	45	Fold: PABP domain-like Superfamily: Ribosomal protein L20 Family: Ribosomal protein L20
5	c3j3wQ_	 Alignment		100.0	52	PDB header: ribosome Chain: Q; PDB Molecule: 50s ribosomal protein l20; PDBTitle: atomic model of the immature 50s subunit from bacillus subtilis (state2 ii-a)
6	c3bboS_	 Alignment		100.0	37	PDB header: ribosome Chain: S; PDB Molecule: ribosomal protein l20; PDBTitle: homology model for the spinach chloroplast 50s subunit fitted to 9.4a2 cryo-em map of the 70s chlororibosome
7	c2ftcL_	 Alignment		100.0	33	PDB header: ribosome Chain: L; PDB Molecule: mrpl20 protein; PDBTitle: structural model for the large subunit of the mammalian mitochondrial2 ribosome
8	c2ghjD_	 Alignment		100.0	56	PDB header: structural protein Chain: D; PDB Molecule: 50s ribosomal protein l20; PDBTitle: crystal structure of folded and partially unfolded forms of aquifex2 aeolicus ribosomal protein l20
9	d2gyco1	 Alignment		100.0	60	Fold: PABP domain-like Superfamily: Ribosomal protein L20 Family: Ribosomal protein L20
10	d1gyza_	 Alignment		99.9	52	Fold: PABP domain-like Superfamily: Ribosomal protein L20 Family: Ribosomal protein L20
11	d3er7a1	 Alignment		47.3	33	Fold: Cystatin-like Superfamily: NTF2-like Family: Exig0174-like

12	d2coba1	Alignment		47.1	14	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Psq domain
13	d3deua1	Alignment		38.0	12	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: MarR-like transcriptional regulators
14	c6g1nB_	Alignment		38.0	16	PDB header: antitoxin Chain: B: PDB Molecule: antitoxin hicb; PDBTitle: crystal structure of the burkholderia pseudomallei antitoxin hicb
15	c2k53A_	Alignment		35.5	23	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: a3dk08 protein; PDBTitle: nmr solution structure of a3dk08 protein from clostridium2 thermocellum: northeast structural genomics consortium3 target cmr9
16	c2m8gX_	Alignment		32.9	30	PDB header: transcription Chain: X: PDB Molecule: transcriptional regulator; PDBTitle: structure, function, and tethering of dna-binding domains in 542 transcriptional activators
17	d1ku9a_	Alignment		29.1	11	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: DNA-binding protein Mj223
18	d1fipa_	Alignment		28.7	28	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: FIS-like
19	c5wylC_	Alignment		28.4	13	PDB header: ribosomal protein/nuclear protein Chain: C: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of chaetomium thermophilum utp10 n-terminal domain2 in complex with utp17 c-terminal helices
20	c3e7ID_	Alignment		25.3	19	PDB header: transcription regulator Chain: D: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: crystal structure of sigma54 activator ntrc4's dna binding2 domain
21	c3fm5D_	Alignment	not modelled	23.7	16	PDB header: transcription regulator Chain: D: PDB Molecule: transcriptional regulator; PDBTitle: x-ray crystal structure of transcriptional regulator (marr family)2 from rhodococcus sp. rha1
22	c3deuB_	Alignment	not modelled	22.1	12	PDB header: transcription regulator Chain: B: PDB Molecule: transcriptional regulator slyA; PDBTitle: crystal structure of transcription regulatory protein slyA from2 salmonella typhimurium in complex with salicylate ligands
23	c5yrzC_	Alignment	not modelled	21.5	6	PDB header: antitoxin/hydrolase Chain: C: PDB Molecule: hicb; PDBTitle: toxin-antitoxin complex from streptococcus pneumoniae
24	c4I5eA_	Alignment	not modelled	18.7	25	PDB header: protein binding Chain: A: PDB Molecule: transcriptional regulator (ntrc family); PDBTitle: crystal structure of a. aeolicus ntrc1 dna binding domain
25	c3eiqC_	Alignment	not modelled	18.2	15	PDB header: hydrolase/antitumor protein Chain: C: PDB Molecule: programmed cell death protein 4; PDBTitle: crystal structure of pdcd4-eif4a
26	c2dbbA_	Alignment	not modelled	17.5	17	PDB header: transcriptional regulator Chain: A: PDB Molecule: putative hth-type transcriptional regulator ph0061; PDBTitle: crystal structure of ph0061
27	c4v0bA_	Alignment	not modelled	17.2	19	PDB header: hydrolase Chain: A: PDB Molecule: atp-dependent zinc metalloprotease ftsh; PDBTitle: escherichia coli ftsh hexameric n-domain
28	d1ntca_	Alignment	not modelled	17.2	36	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: FIS-like
29	c4nncC_	Alignment	not modelled	16.7	22	PDB header: transcription Chain: C: PDB Molecule: possible transcriptional regulatory protein

29	c4pcqC	Alignment	not modelled	10.7	32	(probably PDB header: crystal structure of mtbaldr (rv2779c)
30	c4ht4A	Alignment	not modelled	16.6	22	Chain: A: PDB Molecule: nicking enzyme; PDBTitle: molecular basis of vancomycin resistance transfer in staphylococcus2 aureus
31	c2ee7A	Alignment	not modelled	16.2	22	PDB header: structural protein Chain: A: PDB Molecule: sperm flagellar protein 1; PDBTitle: solution structure of the ch domain from human sperm2 flagellar protein 1
32	d1etob	Alignment	not modelled	16.1	28	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: FIS-like
33	c2k5eA	Alignment	not modelled	16.0	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: solution structure of putative uncharacterized protein2 gsu1278 from methanocaldococcus jannaschii, northeast3 structural genomics consortium (nesg) target gsr195
34	c2e1cA	Alignment	not modelled	15.9	16	PDB header: transcription/dna Chain: A: PDB Molecule: putative hth-type transcriptional regulator ph1519; PDBTitle: structure of putative hth-type transcriptional regulator ph1519/dna2 complex
35	c2p9xB	Alignment	not modelled	14.7	33	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: hypothetical protein ph0832; PDBTitle: crystal structure of ph0832 from pyrococcus horikoshii ot3
36	d1etxa	Alignment	not modelled	13.6	28	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: FIS-like
37	d2cg4a1	Alignment	not modelled	13.3	20	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Lrp/AsnC-like transcriptional regulator N-terminal domain
38	c4fx0A	Alignment	not modelled	13.2	11	PDB header: transcription regulator Chain: A: PDB Molecule: probable transcriptional repressor protein; PDBTitle: crystal structure of m. tuberculosis transcriptional regulator mosr
39	c2ijlB	Alignment	not modelled	12.2	38	PDB header: transcription Chain: B: PDB Molecule: molybdenum-binding transcriptional repressor; PDBTitle: the structure of a putative mode from agrobacterium tumefaciens.
40	d2cyya1	Alignment	not modelled	12.0	16	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Lrp/AsnC-like transcriptional regulator N-terminal domain
41	c2muyA	Alignment	not modelled	11.9	19	PDB header: nucleotide binding protein Chain: A: PDB Molecule: atp-dependent zinc metalloprotease ftsh; PDBTitle: the solution structure of the ftsh periplasmic n-domain
42	c3g3rA	Alignment	not modelled	11.7	12	PDB header: biosynthetic protein Chain: A: PDB Molecule: vacuolar transporter chaperone 4; PDBTitle: crystal structure of a eukaryotic polyphosphate polymerase2 in complex with appnhp-mn2+
43	c6bqcA	Alignment	not modelled	11.3	23	PDB header: transferase Chain: A: PDB Molecule: cyclopropane-fatty-acyl-phospholipid synthase; PDBTitle: cyclopropane fatty acid synthase from e. coli
44	c6nd4M	Alignment	not modelled	11.1	2	PDB header: ribosome Chain: M: PDB Molecule: utp10; PDBTitle: conformational switches control early maturation of the eukaryotic2 small ribosomal subunit
45	c1i1gA	Alignment	not modelled	10.7	20	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulator lrpa; PDBTitle: crystal structure of the lrp-like transcriptional regulator from the2 archaeon pyrococcus furiosus
46	c2ia0A	Alignment	not modelled	10.7	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: putative hth-type transcriptional regulator pf0864; PDBTitle: transcriptional regulatory protein pf0864 from pyrococcus furiosus a2 member of the asnc family (pf0864)
47	d2cfxa1	Alignment	not modelled	10.4	8	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Lrp/AsnC-like transcriptional regulator N-terminal domain
48	c2xa0A	Alignment	not modelled	10.2	15	PDB header: apoptosis Chain: A: PDB Molecule: apoptosis regulator bcl-2; PDBTitle: crystal structure of bcl-2 in complex with a bax bh32 peptide
49	c2l4aA	Alignment	not modelled	10.0	17	PDB header: dna binding protein Chain: A: PDB Molecule: leucine responsive regulatory protein; PDBTitle: nmr structure of the dna-binding domain of e.coli lrp
50	d1y0ua	Alignment	not modelled	9.7	16	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: ArsR-like transcriptional regulators
51	c3jw4C	Alignment	not modelled	9.1	9	PDB header: transcription regulator Chain: C: PDB Molecule: transcriptional regulator, marr/emrr family; PDBTitle: the structure of a putative marr family transcriptional regulator from2 clostridium acetobutylicum
52	c3g3oA	Alignment	not modelled	9.1	16	PDB header: biosynthetic protein Chain: A: PDB Molecule: vacuolar transporter chaperone 2; PDBTitle: crystal structure of the cytoplasmic tunnel domain in yeast2 vtc2p
53	c5i9eE	Alignment	not modelled	8.6	17	PDB header: hydrolase Chain: E: PDB Molecule: helicase swr1; PDBTitle: crystal structure of a nuclear actin ternary complex
54	c1umgA	Alignment	not modelled	7.9	17	PDB header: dna-binding protein Chain: A: PDB Molecule: photosynthetic apparatus regulatory protein;

54	c1umqa_	Alignment	not modelled	7.9	17	PDBTitle: solution structure and dna binding of the effector domain2 from the global regulator prra(rega) from r. sphaeroides:3 insights into dna binding specificity
55	d1umqa_	Alignment	not modelled	7.9	17	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: FIS-like
56	c2cg4B_	Alignment	not modelled	7.8	20	PDB header: transcription Chain: B: PDB Molecule: regulatory protein asnc; PDBTitle: structure of e.coli asnc
57	c3vn0D_	Alignment	not modelled	7.7	31	PDB header: membrane protein Chain: D: PDB Molecule: voltage-gated hydrogen channel 1; PDBTitle: crystal structure of a parallel coiled-coil dimerization domain from2 the voltage-gated proton channel (mutation/c245s)
58	c4leuA_	Alignment	not modelled	7.6	17	PDB header: rna binding protein Chain: A: PDB Molecule: pentatricopeptide repeat-containing protein at3g46870; PDBTitle: crystal structure of tha8-like protein from arabidopsis thaliana
59	d1i1ga1	Alignment	not modelled	7.3	20	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Lrp/AsnC-like transcriptional regulator N-terminal domain
60	d2fbia1	Alignment	not modelled	7.2	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: MarR-like transcriptional regulators
61	d1g2ha_	Alignment	not modelled	7.1	16	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: FIS-like
62	c1g2hA_	Alignment	not modelled	7.1	16	PDB header: transcription Chain: A: PDB Molecule: transcriptional regulatory protein tyrr homolog; PDBTitle: solution structure of the dna-binding domain of the tyrr2 protein of haemophilus influenzae
63	c2vzbA_	Alignment	not modelled	7.1	24	PDB header: dna-binding protein Chain: A: PDB Molecule: transcriptional regulatory protein; PDBTitle: feast or famine regulatory protein (rv3291c)from m.2 tuberculosis complexed with l-tryptophan
64	c5td6A_	Alignment	not modelled	6.9	11	PDB header: rna binding protein Chain: A: PDB Molecule: fog-3 protein; PDBTitle: c. elegans fog-3 btg/tob domain - h47n, c117a
65	c5i9eH_	Alignment	not modelled	6.9	17	PDB header: hydrolase Chain: H: PDB Molecule: helicase swr1; PDBTitle: crystal structure of a nuclear actin ternary complex
66	d1pc6a_	Alignment	not modelled	6.7	13	Fold: NinB Superfamily: NinB Family: NinB
67	c2cfxD_	Alignment	not modelled	6.6	8	PDB header: transcription Chain: D: PDB Molecule: hth-type transcriptional regulator lrpc; PDBTitle: structure of b.subtilis lrpc
68	d1z91a1	Alignment	not modelled	6.5	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: MarR-like transcriptional regulators
69	d2hepa1	Alignment	not modelled	6.4	67	Fold: Long alpha-hairpin Superfamily: YnzC-like Family: YznC-like
70	c2hepA_	Alignment	not modelled	6.4	67	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: upf0291 protein ynzC; PDBTitle: solution nmr structure of the upf0291 protein ynzC from2 bacillus subtilis. northeast structural genomics target3 sr384.
71	d2cpta1	Alignment	not modelled	6.4	19	Fold: Spectrin repeat-like Superfamily: MIT domain Family: MIT domain
72	c2kgfA_	Alignment	not modelled	6.3	19	PDB header: viral protein Chain: A: PDB Molecule: capsid protein p27; PDBTitle: n-terminal domain of capsid protein from the mason-pfizer2 monkey virus
73	c4b8xB_	Alignment	not modelled	6.2	15	PDB header: transcription Chain: B: PDB Molecule: possible marr-transcriptional regulator; PDBTitle: near atomic resolution crystal structure of sco5413, a marr family2 transcriptional regulator from streptomyces coelicolor
74	c2e7xA_	Alignment	not modelled	6.2	12	PDB header: transcription regulator Chain: A: PDB Molecule: 150aa long hypothetical transcriptional regulator; PDBTitle: structure of the lrp/asnc like transcriptional regulator from2 sulfolobus tokodaii 7 complexed with its cognate ligand
75	d1b9ma1	Alignment	not modelled	5.8	15	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: N-terminal domain of molybdate-dependent transcriptional regulator ModE
76	c6a6xC_	Alignment	not modelled	5.5	33	PDB header: toxin Chain: C: PDB Molecule: antitoxin maze7; PDBTitle: the crystal structure of the mtb maze-mazf-mt9 complex
77	c5l33A_	Alignment	not modelled	5.4	28	PDB header: de novo protein Chain: A: PDB Molecule: denovo ntf2; PDBTitle: crystal structure of a de novo designed protein with curved beta-sheet
78	d2d5ra1	Alignment	not modelled	5.3	15	Fold: Ribonuclease H-like motif Superfamily: Ribonuclease H-like Family: CAF1-like ribonuclease
79	c2gqgB_	Alignment	not modelled	5.3	17	PDB header: transcription Chain: B: PDB Molecule: leucine-responsive regulatory protein; PDBTitle: crystal structure of e. coli leucine-responsive regulatory protein2 (lrp)
						PDB header: transcription regulator

80	c3cdhB_	Alignment	not modelled	5.3	12	Chain: B: PDB Molecule: transcriptional regulator, marr family; PDBTitle: crystal structure of the marr family transcriptional regulator spo14532 from silicibacter pomeroyi dss-3
81	c3m03B_	Alignment	not modelled	5.2	21	PDB header: dna binding protein Chain: B: PDB Molecule: origin recognition complex subunit 6; PDBTitle: crystal structure of human orc6 fragment