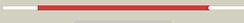
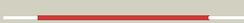
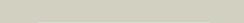
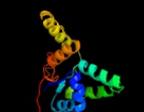


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0595c (-)_694842_695234
Date	Fri Jul 26 01:50:15 BST 2019
Unique Job ID	bd915ffeedd106d2

Detailed template
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3dboB	 Alignment		99.9	38	PDB header: toxin/antitoxin Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a member of the vapbc family of toxin-antitoxin2 systems, vapbc-5, from mycobacterium tuberculosis
2	c3h87B	 Alignment		99.9	19	PDB header: toxin/antitoxin Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: rv0301 rv0300 toxin antitoxin complex from mycobacterium tuberculosis
3	c3tndC	 Alignment		99.9	20	PDB header: translation, toxin Chain: C: PDB Molecule: trna(fmet)-specific endonuclease vapc; PDBTitle: crystal structure of shigella flexneri vapbc toxin-antitoxin complex
4	c3zvkc	 Alignment		99.9	19	PDB header: antitoxin/toxin/dna Chain: C: PDB Molecule: toxin of toxin-antitoxin system; PDBTitle: crystal structure of vapbc2 from rickettsia felis bound to 2 a dna fragment from their promoter
5	d1v96a1	 Alignment		99.9	14	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
6	c6nkiA	 Alignment		99.9	19	PDB header: antitoxin Chain: A: PDB Molecule: ribonuclease vapc; PDBTitle: 2.2 a resolution structure of vapbc-1 from nontypeable haemophilus2 influenzae
7	d2h1ca1	 Alignment		99.9	26	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
8	c5sv2A	 Alignment		99.9	18	PDB header: hydrolase Chain: A: PDB Molecule: ribonuclease vapc21; PDBTitle: toxin vapc21 from mycobacterium tuberculosis
9	c5l6mC	 Alignment		99.9	21	PDB header: hydrolase Chain: C: PDB Molecule: ribonuclease vapc; PDBTitle: structure of caulobacter crescentus vapbc1 (vapb1delta::vapc1 form)
10	c4chgC	 Alignment		99.8	24	PDB header: toxin/antitoxin Chain: C: PDB Molecule: probable ribonuclease vapc15; PDBTitle: crystal structure of vapbc15 complex from mycobacterium tuberculosis
11	d1y82a1	 Alignment		99.8	15	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain

12	c6a7vG_	Alignment		99.8	23	PDB header: toxin/antitoxin Chain: G: PDB Molecule: ribonuclease vapc11; PDBTitle: crystal structure of mycobacterium tuberculosis vapbc11 toxin-2 antitoxin complex
13	c4xgrG_	Alignment		99.8	17	PDB header: toxin/antitoxin Chain: G: PDB Molecule: ribonuclease vapc30; PDBTitle: crystal structure of addition module from mycobacterial species
14	c5x3tD_	Alignment		99.6	22	PDB header: antitoxin/toxin Chain: D: PDB Molecule: ribonuclease vapc26; PDBTitle: vapbc from mycobacterium tuberculosis
15	c5wzfB_	Alignment		99.6	15	PDB header: hydrolase Chain: B: PDB Molecule: 23s rna-specific endonuclease vapc20; PDBTitle: crystal structure of mycobacterium tuberculosis vapc20 (rv2549c),2 sarcin-ricin loop cleaving toxin
16	d2fe1a1	Alignment		99.6	16	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
17	c2fe1A_	Alignment		99.6	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved hypothetical protein pae0151; PDBTitle: crystal structure of pae0151 from pyrobaculum aerophilum
18	d1w8ia_	Alignment		98.8	15	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
19	d1v8pa_	Alignment		98.6	19	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
20	c3ix7A_	Alignment		98.6	23	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein ttha0540; PDBTitle: crystal structure of a domain of functionally unknown protein from2 thermus thermophilus hb8
21	c1v8pK_	Alignment	not modelled	98.6	19	PDB header: structural genomics, unknown function Chain: K: PDB Molecule: hypothetical protein pae2754; PDBTitle: crystal structure of pae2754 from pyrobaculum aerophilum
22	d1o4wa_	Alignment	not modelled	98.5	22	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
23	c3i8oA_	Alignment	not modelled	98.5	18	PDB header: rna binding protein Chain: A: PDB Molecule: kh domain-containing protein mj1533; PDBTitle: a domain of a functionally unknown protein from methanocaldococcus2 jannaschii dsm 2661.
24	c5ywwA_	Alignment	not modelled	98.3	15	PDB header: hydrolase Chain: A: PDB Molecule: nucleotide binding protein pinc; PDBTitle: archael ruvb-like holiday junction helicase
25	c5f4hF_	Alignment	not modelled	98.2	15	PDB header: hydrolase Chain: F: PDB Molecule: nucleotide binding protein pinc; PDBTitle: archael ruvb-like holiday junction helicase
26	c2lcqA_	Alignment	not modelled	98.2	15	PDB header: metal binding protein Chain: A: PDB Molecule: putative toxin vapc6; PDBTitle: solution structure of the endonuclease nob1 from p.horikoshii
27	c2hwwC_	Alignment	not modelled	97.3	23	PDB header: rna binding protein Chain: C: PDB Molecule: telomerase-binding protein est1a; PDBTitle: structure of pin domain of human smg6
28	c5jppd_	Alignment	not modelled	96.8	15	PDB header: ribosome Chain: D: PDB Molecule: wd40 domain proteins; PDBTitle: cryo-em structure of the 90s pre-ribosome
						PDB header: hydrolase

29	c5yz4A_	Alignment	not modelled	96.7	17	Chain: A; PDB Molecule: rrna-processing protein fcf1; PDBTitle: structure of the pin domain endonuclease utp24
30	c4mj7B_	Alignment	not modelled	93.4	16	PDB header: rna binding protein Chain: B; PDB Molecule: rrna-processing protein utp23; PDBTitle: crystal structure of the pin domain of saccharomyces cerevisiae utp23
31	c2hwyB_	Alignment	not modelled	86.8	8	PDB header: rna binding protein Chain: B; PDB Molecule: protein smg5; PDBTitle: structure of pin domain of human smg5.
32	c6g5iy_	Alignment	not modelled	79.4	18	PDB header: ribosome Chain: Y; PDB Molecule: 40s ribosomal protein s24; PDBTitle: cryo-em structure of a late human pre-40s ribosomal subunit - state r
33	c3v33A_	Alignment	not modelled	72.2	20	PDB header: hydrolase Chain: A; PDB Molecule: ribonuclease zc3h12a; PDBTitle: crystal structure of mcpi1 conserved domain with zinc-finger motif
34	c3v32B_	Alignment	not modelled	71.3	19	PDB header: hydrolase Chain: B; PDB Molecule: ribonuclease zc3h12a; PDBTitle: crystal structure of mcpi1 n-terminal conserved domain
35	d1cmwa2	Alignment	not modelled	68.6	35	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
36	d1tfra2	Alignment	not modelled	45.2	32	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
37	c3zddA_	Alignment	not modelled	38.3	19	PDB header: hydrolase/dna Chain: A; PDB Molecule: protein xni; PDBTitle: structure of e. coli exoix in complex with the palindromic 5ov62 oligonucleotide and potassium
38	d1xo1a2	Alignment	not modelled	35.8	16	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
39	c4hecB_	Alignment	not modelled	25.5	33	PDB header: unknown function Chain: B; PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of a putative uncharacterized protein from2 mycobacterium tuberculosis
40	c1ut8B_	Alignment	not modelled	24.7	16	PDB header: hydrolase Chain: B; PDB Molecule: exodeoxyribonuclease; PDBTitle: divalent metal ions (zinc) bound to t5 5'-exonuclease
41	c2ihnA_	Alignment	not modelled	24.2	28	PDB header: hydrolase/dna Chain: A; PDB Molecule: ribonuclease h; PDBTitle: co-crystal of bacteriophage t4 rnase h with a fork dna2 substrate
42	c1cmwA_	Alignment	not modelled	22.3	35	PDB header: transferase Chain: A; PDB Molecule: protein (dna polymerase i); PDBTitle: crystal structure of taq dna-polymerase shows a new orientation for2 the structure-specific nuclease domain
43	d1hdoa_	Alignment	not modelled	18.2	13	Fold: NAD(P)-binding Rossmann-fold domains Superfamily: NAD(P)-binding Rossmann-fold domains Family: Tyrosine-dependent oxidoreductases
44	c2izoA_	Alignment	not modelled	16.8	15	PDB header: hydrolase Chain: A; PDB Molecule: flap structure-specific endonuclease; PDBTitle: structure of an archaeal pcna1-pcna2-fen1 complex
45	d1ul1x2	Alignment	not modelled	16.5	21	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
46	c2qipA_	Alignment	not modelled	14.2	16	PDB header: structural genomics, unknown function Chain: A; PDB Molecule: protein of unknown function vpa0982; PDBTitle: crystal structure of a protein of unknown function vpa0982 from vibrio2 parahaemolyticus rimd 2210633
47	c4mitG_	Alignment	not modelled	13.2	20	PDB header: signaling protein Chain: G; PDB Molecule: serine/threonine protein kinase pak, putative; PDBTitle: crystal structure of e. histolytica racc bound to the ehpak4 pbd
48	c3q8IA_	Alignment	not modelled	13.2	21	PDB header: hydrolase/dna Chain: A; PDB Molecule: flap endonuclease 1; PDBTitle: crystal structure of human flap endonuclease fen1 (wt) in complex with2 substrate 5'-flap dna, sm3+, and k+
49	d1a77a2	Alignment	not modelled	12.1	18	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
50	c1b43A_	Alignment	not modelled	10.7	18	PDB header: transferase Chain: A; PDB Molecule: protein (fen-1); PDBTitle: fen-1 from p. furiosus
51	c1a77A_	Alignment	not modelled	10.0	18	PDB header: 5'-3' exo/endo nuclease Chain: A; PDB Molecule: flap endonuclease-1 protein; PDBTitle: flap endonuclease-1 from methanococcus jannaschii
52	d1rxwa2	Alignment	not modelled	8.5	15	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
53	c2c40B_	Alignment	not modelled	8.3	0	PDB header: hydrolase Chain: B; PDB Molecule: inosine-uridine preferring nucleoside hydrolase family PDBTitle: crystal structure of inosine-uridine preferring nucleoside2 hydrolase from bacillus anthracis at 2.2a resolution
54	c3t8iC_	Alignment	not modelled	8.2	22	PDB header: hydrolase Chain: C; PDB Molecule: purine nucleosidase, (iunh-2); PDBTitle: structural analysis of thermostable s. solfataricus purine-specific2 nucleoside hydrolase
55	c6dxdD_	Alignment	not modelled	7.8	13	PDB header: oxidoreductase Chain: D; PDB Molecule: fmn-dependent nadh-azoreductase; PDBTitle: the crystal structure of an fmn-dependent nadh-

						azoreductase from2 klebsiella pneumoniae
56	c3t8jA_	Alignment	not modelled	7.6	22	PDB header: hydrolase Chain: A: PDB Molecule: purine nucleosidase, (iunh-1); PDBTitle: structural analysis of thermostable s. solfataricus pyrimidine-2 specific nucleoside hydrolase
57	c5dzB_	Alignment	not modelled	7.4	22	PDB header: hydrolase Chain: B: PDB Molecule: proteinaceous rnase p 2; PDBTitle: crystal structure of nuclear proteinaceous rnase p 2 (prorp2) from a.2 thaliana
58	d1mc8a2	Alignment	not modelled	7.1	21	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
59	c4mitE_	Alignment	not modelled	7.1	25	PDB header: signaling protein Chain: E: PDB Molecule: serine/threonine protein kinase pak, putative; PDBTitle: crystal structure of e. histolytica racc bound to the ehpak4 pbd
60	c4g25A_	Alignment	not modelled	6.9	21	PDB header: rna binding protein Chain: A: PDB Molecule: pentatricopeptide repeat-containing protein at2g32230, PDBTitle: crystal structure of proteinaceous rnase p 1 (prorp1) from a.2 thaliana, semet substituted form with sr
61	c1rxvA_	Alignment	not modelled	6.8	15	PDB header: hydrolase/dna Chain: A: PDB Molecule: flap structure-specific endonuclease; PDBTitle: crystal structure of a. fulgidus fen-1 bound to dna
62	c2hsnA_	Alignment	not modelled	6.7	13	PDB header: ligase/rna binding protein Chain: A: PDB Molecule: methionyl-trna synthetase, cytoplasmic; PDBTitle: structural basis of yeast aminoacyl-trna synthetase complex2 formation revealed by crystal structures of two binary sub-3 complexes
63	c6c34A_	Alignment	not modelled	6.1	8	PDB header: dna binding protein Chain: A: PDB Molecule: 5'-3' exonuclease; PDBTitle: mycobacterium smegmatis dna flap endonuclease mutant d125n
64	c6ba0D_	Alignment	not modelled	5.5	13	PDB header: hydrolase Chain: D: PDB Molecule: cytidine/uridine-specific hydrolase; PDBTitle: pyrimidine-specific ribonucleoside hydrolase from gardnerella2 vaginalis
65	c1zp0D_	Alignment	not modelled	5.4	14	PDB header: oxidoreductase Chain: D: PDB Molecule: small cytochrome binding protein; PDBTitle: crystal structure of mitochondrial respiratory complex ii2 bound with 3-nitropropionate and 2-thenyltrifluoroacetone
66	c3ofeB_	Alignment	not modelled	5.2	18	PDB header: chaperone Chain: B: PDB Molecule: ldlr chaperone boca; PDBTitle: structured domain of drosophila melanogaster boca p41 2 2 crystal form
67	c2i9sA_	Alignment	not modelled	5.1	18	PDB header: chaperone Chain: A: PDB Molecule: mesoderm development candidate 2; PDBTitle: the solution structure of the core of mesoderm development2 (mesd).