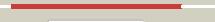


Phyre²

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Description	RVBD2010 (-)_2258281_2258679
Date	Mon Aug 5 13:25:11 BST 2019
Unique Job ID	41fcf5d7a296ac94

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4chgC			100.0	98	PDB header: toxin/antitoxin Chain: C; PDB Molecule: probable ribonuclease vapc15; PDBTitle: crystal structure of vapbc15 complex from mycobacterium tuberculosis
2	c6a7vG			100.0	31	PDB header: toxin/antitoxin Chain: G; PDB Molecule: ribonuclease vapc11; PDBTitle: crystal structure of mycobacterium tuberculosis vapc11 toxin-2 antitoxin complex
3	c3h87B			99.9	23	PDB header: toxin/antitoxin Chain: B; PDB Molecule: putative uncharacterized protein; PDBTitle: rv0301 rv0300 toxin antitoxin complex from mycobacterium tuberculosis
4	c5sv2A			99.9	16	PDB header: hydrolase Chain: A; PDB Molecule: ribonuclease vapc21; PDBTitle: toxin vapc21 from mycobacterium tuberculosis
5	d1v96a1			99.9	24	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
6	c3zvkC			99.9	13	PDB header: antitoxin/toxin/dna Chain: C; PDB Molecule: toxin of toxin-antitoxin system; PDBTitle: crystal structure of vapbc2 from rickettsia felis bound to2 a dna fragment from their promoter
7	c6nkIA			99.9	11	PDB header: antitoxin Chain: A; PDB Molecule: ribonuclease vapc; PDBTitle: 2.2 a resolution structure of vapbc-1 from nontypeable haemophilus2 influenzae
8	c3tndc			99.9	19	PDB header: translation, toxin Chain: C; PDB Molecule: trna(fmet)-specific endonuclease vapc; PDBTitle: crystal structure of shigella flexneri vapbc toxin-antitoxin complex
9	c5l6mC			99.9	22	PDB header: hydrolase Chain: C; PDB Molecule: ribonuclease vapc; PDBTitle: structure of caulobacter crescentus vapbc1 (vapb1deltac:vapc1 form)
10	c3dboB			99.8	24	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
11	d2h1ca1			99.8	21	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain

12	d1y82a1	Alignment		99.8	24	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
13	c4xgrG	Alignment		99.8	18	PDB header: toxin/antitoxin Chain: G: PDB Molecule: ribonuclease vapc30; PDBTitle: crystal structure of addiction module from mycobacterial species
14	c5wzfB	Alignment		99.8	17	PDB header: hydrolase Chain: B: PDB Molecule: 23s rrna-specific endonuclease vapc20; PDBTitle: crystal structure of mycobacterium tuberculosis vapc20 (rv2549c),2 sarcin-ricin loop cleaving toxin
15	c5x3tD	Alignment		99.8	19	PDB header: antitoxin/toxin Chain: D: PDB Molecule: ribonuclease vapc26; PDBTitle: vapbc from mycobacterium tuberculosis
16	c2fe1A	Alignment		99.5	15	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: conserved hypothetical protein pae0151; PDBTitle: crystal structure of pae0151 from pyrobaculum aerophilum
17	d2fe1a1	Alignment		99.5	15	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
18	c3i8oA	Alignment		99.2	18	PDB header: rna binding protein Chain: A: PDB Molecule: kh domain-containing protein mj1533; PDBTitle: a domain of a functionally unknown protein from methanocaldococcus jannaschii dsm 2661.
19	c3ix7A	Alignment		98.9	19	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein ttha0540; PDBTitle: crystal structure of a domain of functionally unknown protein from thermus thermophilus hb8
20	d1w8ia	Alignment		98.8	13	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
21	c5ywwA	Alignment	not modelled	98.6	15	PDB header: hydrolase Chain: A: PDB Molecule: nucleotide binding protein pinc; PDBTitle: archael ruvb-like holiday junction helicase
22	c5f4hF	Alignment	not modelled	98.5	15	PDB header: hydrolase Chain: F: PDB Molecule: nucleotide binding protein pinc; PDBTitle: archael ruvb-like holiday junction helicase
23	d1o4wa	Alignment	not modelled	98.5	14	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
24	c2lcqA	Alignment	not modelled	98.3	21	PDB header: metal binding protein Chain: A: PDB Molecule: putative toxin vapc6; PDBTitle: solution structure of the endonuclease nob1 from p.horikoshii
25	d1v8pa	Alignment	not modelled	98.2	19	Fold: PIN domain-like Superfamily: PIN domain-like Family: PIN domain
26	c1v8pK	Alignment	not modelled	98.2	19	PDB header: structural genomics, unknown function Chain: K: PDB Molecule: hypothetical protein pae2754; PDBTitle: crystal structure of pae2754 from pyrobaculum aerophilum
27	c2hwwC	Alignment	not modelled	97.9	16	PDB header: rna binding protein Chain: C: PDB Molecule: telomerase-binding protein est1a; PDBTitle: structure of pin domain of human smg6
28	c5jpqd	Alignment	not modelled	97.3	21	PDB header: ribosome Chain: D: PDB Molecule: wd40 domain proteins; PDBTitle: cryo-em structure of the 90s pre-ribosome
29	c5yz4A	Alignment	not modelled	97.3	21	PDB header: hydrolase Chain: A: PDB Molecule: rrna-processing protein fcf1;

						PDBTitle: structure of the pin domain endonuclease utp24
30	c4mj7B	Alignment	not modelled	96.1	15	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	c6g5iy	Alignment	not modelled	94.6	22	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
32	c2hwvB	Alignment	not modelled	93.0	27	PDB header: rna binding protein Chain: B: PDB Molecule: protein smg5; PDBTitle: structure of pin domain of human smg5.
33	c3v32B	Alignment	not modelled	74.7	25	PDB header: hydrolase Chain: B: PDB Molecule: ribonuclease zc3h12a; PDBTitle: crystal structure of mcp1p1 n-terminal conserved domain
34	c3v33A	Alignment	not modelled	70.6	26	PDB header: hydrolase Chain: A: PDB Molecule: ribonuclease zc3h12a; PDBTitle: crystal structure of mcp1p1 conserved domain with zinc-finger motif
35	c2mdtA	Alignment	not modelled	67.2	11	PDB header: unknown function Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: a pilt n-terminus domain protein ss0118 from hyperthermophilic archaeon sulfobacillus solfataricus p2
36	d1cmwa2	Alignment	not modelled	49.2	26	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
37	c3zddA	Alignment	not modelled	37.9	22	PDB header: hydrolase/dna Chain: A: PDB Molecule: protein xni; PDBTitle: structure of e. coli exoix in complex with the palindromic SosV62 oligonucleotide and potassium
38	d1tfra2	Alignment	not modelled	32.7	15	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
39	d1xola2	Alignment	not modelled	26.3	27	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
40	c2ihnA	Alignment	not modelled	20.5	9	PDB header: hydrolase/dna Chain: A: PDB Molecule: ribonuclease h; PDBTitle: co-crystal of bacteriophage t4 rnase h with a fork dna2 substrate
41	c2qipA	Alignment	not modelled	18.4	17	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 rimb 2210633
42	c4g25A	Alignment	not modelled	12.0	23	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
43	c1jqsB	Alignment	not modelled	10.1	18	PDB header: ribosome Chain: B: PDB Molecule: elongation factor g; PDBTitle: fitting of l11 protein and elongation factor g (domain g'2 and v) in the cryo-em map of e. coli 70s ribosome bound3 with ef-g and gmppcp, a nonhydrolysable gtp analog
44	clut8B	Alignment	not modelled	8.8	22	PDB header: hydrolase Chain: B: PDB Molecule: exodeoxyribonuclease; PDBTitle: divalent metal ions (zinc) bound to t5 5'-exonuclease
45	d1a77a2	Alignment	not modelled	8.6	35	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain
46	c1cmwA	Alignment	not modelled	8.2	26	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
47	c2n22B	Alignment	not modelled	7.5	23	PDB header: transcription Chain: B: PDB Molecule: transcription factor p65; PDBTitle: nmr structure of the complex between the ph domain of the tfb1 subunit2 from tfiib and the transactivation domain of p65
48	c3q8IA	Alignment	not modelled	7.3	30	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	d1ul1x2	Alignment	not modelled	6.7	30	Fold: PIN domain-like Superfamily: PIN domain-like Family: 5' to 3' exonuclease catalytic domain