

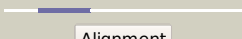
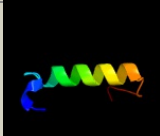
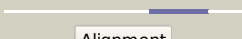
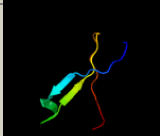

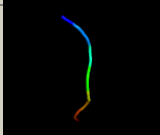







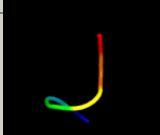
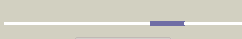


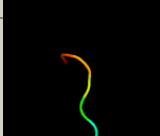


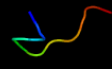


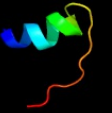







# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2432c (- )_2728447_2728857
Date	Wed Aug 7 12:50:05 BST 2019
Unique Job ID	ff9200d50780e67c

Detailed template  
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c2ktcA_</a>	 Alignment		21.8	67	<b>PDB header:</b> toxin <b>Chain:</b> A; <b>PDB Molecule:</b> potassium channel toxin alpha-ktx 9.4; <b>PDBTitle:</b> solution structure of a novel hkvl1.1 inhibiting scorpion toxin from2 mesibuthus tamulus
2	<a href="#">d1dnla_</a>	 Alignment		19.2	25	<b>Fold:</b> Split barrel-like <b>Superfamily:</b> FMN-binding split barrel <b>Family:</b> PNP-oxidase like
3	<a href="#">c3h6qA_</a>	 Alignment		16.8	28	<b>PDB header:</b> hydrolase/hydrolase inhibitor <b>Chain:</b> A; <b>PDB Molecule:</b> macrocytin 1a; <b>PDBTitle:</b> macrocytin, a beta-trefoil cysteine protease inhibitor
4	<a href="#">d2rh2a1</a>	 Alignment		16.0	75	<b>Fold:</b> SH3-like barrel <b>Superfamily:</b> Electron transport accessory proteins <b>Family:</b> R67 dihydrofolate reductase
5	<a href="#">d2avuE1</a>	 Alignment		15.2	24	<b>Fold:</b> FlhC-like <b>Superfamily:</b> FlhC-like <b>Family:</b> FlhC-like
6	<a href="#">c1wm8A_</a>	 Alignment		13.8	83	<b>PDB header:</b> toxin <b>Chain:</b> A; <b>PDB Molecule:</b> neurotoxin bmp03; <b>PDBTitle:</b> solution structure of bmp03 from the venom of scorpion buthus2 martensii karsch, 10 structures
7	<a href="#">c2avuF_</a>	 Alignment		13.3	24	<b>PDB header:</b> transcription activator <b>Chain:</b> F; <b>PDB Molecule:</b> flagellar transcriptional activator flhc; <b>PDBTitle:</b> structure of the escherichia coli flhdc complex, a2 prokaryotic heteromeric regulator of transcription
8	<a href="#">c1du9A_</a>	 Alignment		13.1	83	<b>PDB header:</b> toxin <b>Chain:</b> A; <b>PDB Molecule:</b> bmp02 neurotoxin; <b>PDBTitle:</b> solution structure of bmp02, a natural scorpion toxin which2 blocks apamin-sensitive calcium-activated potassium3 channels, 25 structures
9	<a href="#">c3bbnM_</a>	 Alignment		10.3	64	<b>PDB header:</b> ribosome <b>Chain:</b> M; <b>PDB Molecule:</b> ribosomal protein s13; <b>PDBTitle:</b> homology model for the spinach chloroplast 30s subunit fitted to 9.4a2 cryo-em map of the 70s chlororibosome.
10	<a href="#">d1lemao2</a>	 Alignment		9.1	75	<b>Fold:</b> Knottins (small inhibitors, toxins, lectins) <b>Superfamily:</b> EGF/Laminin <b>Family:</b> EGF-type module
11	<a href="#">c5ja9D_</a>	 Alignment		8.5	22	<b>PDB header:</b> toxin <b>Chain:</b> D; <b>PDB Molecule:</b> toxin hlgb-2; <b>PDBTitle:</b> crystal structure of the hlgb2 toxin in complex with nb6

12	<a href="#">c6gv7A_</a>	Alignment		8.5	45	<b>PDB header:</b> metal binding protein <b>Chain:</b> A: <b>PDB Molecule:</b> metallothionein; <b>PDBTitle:</b> cadmium(ii) form of a44h mutant of shortened metallothionein from2 pseudomonas fluorescens q2-87 (residues 1-52)
13	<a href="#">c5buzC_</a>	Alignment		7.1	36	<b>PDB header:</b> transport protein <b>Chain:</b> C: <b>PDB Molecule:</b> snap receptor-like protein; <b>PDBTitle:</b> crystal structure of a complex between the snare vam3 and the hops2 vps33-vps16 subcomplex from chaetomium thermophilum
14	<a href="#">d3ebxa_</a>	Alignment		6.5	67	<b>Fold:</b> Snake toxin-like <b>Superfamily:</b> Snake toxin-like <b>Family:</b> Snake venom toxins
15	<a href="#">c5mxnA_</a>	Alignment		6.3	38	<b>PDB header:</b> transport protein <b>Chain:</b> A: <b>PDB Molecule:</b> type vi secretion protein; <b>PDBTitle:</b> atomic model of the vipa/vipb/hcp, the type six secretion system non-2 contractile sheath-tube of vibrio cholerae from cryo-em
16	<a href="#">d1qm4a2</a>	Alignment		5.9	44	<b>Fold:</b> S-adenosylmethionine synthetase <b>Superfamily:</b> S-adenosylmethionine synthetase <b>Family:</b> S-adenosylmethionine synthetase
17	<a href="#">c5o5jM_</a>	Alignment		5.7	57	<b>PDB header:</b> ribosome <b>Chain:</b> M: <b>PDB Molecule:</b> 30s ribosomal protein s13; <b>PDBTitle:</b> structure of the 30s small ribosomal subunit from mycobacterium2 smegmatis
18	<a href="#">d1im3d_</a>	Alignment		5.7	43	<b>Fold:</b> Immunoglobulin-like beta-sandwich <b>Superfamily:</b> E set domains <b>Family:</b> Cytomegalovirus protein US2
19	<a href="#">d2gy9m1</a>	Alignment		5.7	57	<b>Fold:</b> S13-like H2TH domain <b>Superfamily:</b> S13-like H2TH domain <b>Family:</b> Ribosomal protein S13
20	<a href="#">d2p02a2</a>	Alignment		5.7	44	<b>Fold:</b> S-adenosylmethionine synthetase <b>Superfamily:</b> S-adenosylmethionine synthetase <b>Family:</b> S-adenosylmethionine synthetase
21	<a href="#">c5mmjm_</a>	Alignment	not modelled	5.6	57	<b>PDB header:</b> ribosome <b>Chain:</b> M: <b>PDB Molecule:</b> <b>PDBTitle:</b> structure of the small subunit of the chloroplast ribosome
22	<a href="#">d2o2aa1</a>	Alignment	not modelled	5.6	50	<b>Fold:</b> SecB-like <b>Superfamily:</b> SecB-like <b>Family:</b> SP1558-like
23	<a href="#">d1v9ca_</a>	Alignment	not modelled	5.6	46	<b>Fold:</b> Flavodoxin-like <b>Superfamily:</b> Precorrin-8X methylmutase CbiC/CobH <b>Family:</b> Precorrin-8X methylmutase CbiC/CobH
24	<a href="#">d2hnga1</a>	Alignment	not modelled	5.4	50	<b>Fold:</b> SecB-like <b>Superfamily:</b> SecB-like <b>Family:</b> SP1558-like
25	<a href="#">d1mxaa2</a>	Alignment	not modelled	5.4	33	<b>Fold:</b> S-adenosylmethionine synthetase <b>Superfamily:</b> S-adenosylmethionine synthetase <b>Family:</b> S-adenosylmethionine synthetase
26	<a href="#">c5l2dD_</a>	Alignment	not modelled	5.2	50	<b>PDB header:</b> cell adhesion <b>Chain:</b> D: <b>PDB Molecule:</b> surface-associated protein csha; <b>PDBTitle:</b> streptococcal surface adhesin - csha nr2
27	<a href="#">c5l2dC_</a>	Alignment	not modelled	5.2	50	<b>PDB header:</b> cell adhesion <b>Chain:</b> C: <b>PDB Molecule:</b> surface-associated protein csha; <b>PDBTitle:</b> streptococcal surface adhesin - csha nr2
28	<a href="#">d2uubm1</a>	Alignment	not modelled	5.2	57	<b>Fold:</b> S13-like H2TH domain <b>Superfamily:</b> S13-like H2TH domain <b>Family:</b> Ribosomal protein S13
29	<a href="#">c3j9oJ_</a>	Alignment	not modelled	5.1	38	<b>PDB header:</b> structural protein <b>Chain:</b> J: <b>PDB Molecule:</b> intracellular growth locus protein b; <b>PDBTitle:</b> cryoem structure of a type vi secretion system

30	<a href="#">d1dcsa_</a>	Alignment	not modelled	5.1	32	<b>Fold:</b> Double-stranded beta-helix <b>Superfamily:</b> Clavamate synthase-like <b>Family:</b> Penicillin synthase-like
31	<a href="#">c3j6vG_</a>	Alignment	not modelled	5.1	80	<b>PDB header:</b> ribosome <b>Chain:</b> G: <b>PDB Molecule:</b> 28s ribosomal protein s7, mitochondrial; <b>PDBTitle:</b> cryo-em structure of the small subunit of the mammalian mitochondrial2 ribosome