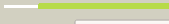
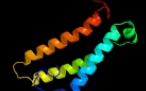
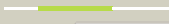

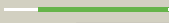




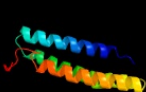


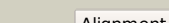

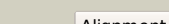




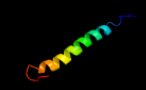

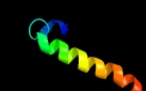

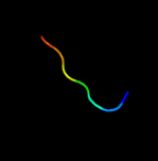
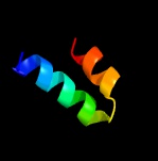
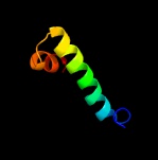
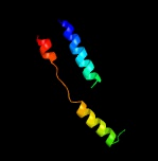
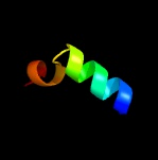
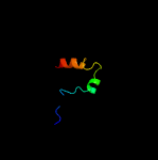
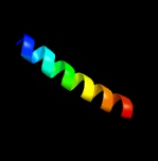
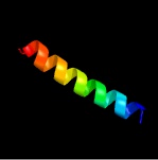


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1303_(-)_1459772_1460257
Date	Wed Jul 31 22:05:40 BST 2019
Unique Job ID	09a044be383c4c93

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3ug9A_	 Alignment		62.7	17	PDB header: membrane protein Chain: A: PDB Molecule: archaeal-type opsin 1, archaeal-type opsin 2; PDBTitle: crystal structure of the closed state of channelrhodopsin
2	c4ezdB_	 Alignment		61.9	21	PDB header: transport protein Chain: B: PDB Molecule: urea transporter 1; PDBTitle: crystal structure of the ut-b urea transporter from bos taurus bound2 to selenourea
3	c5zihA_	 Alignment		57.7	11	PDB header: membrane protein Chain: A: PDB Molecule: sensory opsin a,chrimson; PDBTitle: crystal structure of the red light-activated channelrhodopsin2 chrimson.
4	c3k3gA_	 Alignment		57.3	19	PDB header: transport protein Chain: A: PDB Molecule: urea transporter; PDBTitle: crystal structure of the urea transporter from desulfovibrio vulgaris2 bound to 1,3-dimethylurea
5	c6eyuA_	 Alignment		20.1	13	PDB header: membrane protein Chain: A: PDB Molecule: bacteriorhodopsin; PDBTitle: crystal structure of the inward h(+) pump xenorhodopsin
6	d1fp1d1	 Alignment		17.6	28	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Plant O-methyltransferase, N-terminal domain
7	c6csmC_	 Alignment		16.9	10	PDB header: membrane protein Chain: C: PDB Molecule: gtacr1; PDBTitle: crystal structure of the natural light-gated anion channel gtacr1
8	c5tr1A_	 Alignment		16.2	19	PDB header: transport protein Chain: A: PDB Molecule: chloride channel protein; PDBTitle: cryo-electron microscopy structure of a bovine clc-k chloride channel,2 alternate (class 2) conformation
9	c4mt1A_	 Alignment		15.0	22	PDB header: membrane protein, tranport protein Chain: A: PDB Molecule: drug efflux protein; PDBTitle: crystal structure of the neisseria gonorrhoeae mtrd inner membrane2 multidrug efflux pump
10	c2l35A_	 Alignment		11.5	28	PDB header: protein binding Chain: A: PDB Molecule: dap12-nkg2c_tm; PDBTitle: structure of the dap12-nkg2c transmembrane heterotrimer
11	c5iwsA_	 Alignment		11.3	13	PDB header: transferase Chain: A: PDB Molecule: protein-n(pi)-phosphohistidine-sugar phosphotransferase PDBTitle: crystal structure of the transporter malt, the eiic domain from the2 maltose-specific phosphotransferase system

12	c5vaqC_	Alignment		10.8	78	PDB header: signaling protein Chain: C: PDB Molecule: fibroblast growth factor 21; PDBTitle: crystal structure of beta-klotho in complex with fgf21ct
13	c1o7dD_	Alignment		10.3	75	PDB header: hydrolase Chain: D: PDB Molecule: lysosomal alpha-mannosidase; PDBTitle: the structure of the bovine lysosomal a-mannosidase suggests a novel2 mechanism for low ph activation
14	c6qvcB_	Alignment		9.0	19	PDB header: membrane protein Chain: B: PDB Molecule: chloride channel protein 1; PDBTitle: cryoem structure of the human clc-1 chloride channel, cbs state 1
15	c3orgB_	Alignment		8.9	22	PDB header: transport protein Chain: B: PDB Molecule: cmclc; PDBTitle: crystal structure of a eukaryotic clc transporter
16	c6o7ua_	Alignment		8.7	26	PDB header: membrane protein Chain: A: PDB Molecule: PDBTitle: saccharomyces cerevisiae v-atpase stv1-vo
17	d1kyza1	Alignment		8.1	33	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Plant O-methyltransferase, N-terminal domain
18	c4jispA_	Alignment		8.1	14	PDB header: transferase Chain: A: PDB Molecule: serine/threonine-protein kinase mtor; PDBTitle: structure of mtor-delta-n-mst8-atp-gamma-mg complex
19	c2n90B_	Alignment		6.5	26	PDB header: transferase Chain: B: PDB Molecule: high affinity nerve growth factor receptor; PDBTitle: trka transmembrane domain nmr structure in dpc micelles
20	c2n90A_	Alignment		6.5	26	PDB header: transferase Chain: A: PDB Molecule: high affinity nerve growth factor receptor; PDBTitle: trka transmembrane domain nmr structure in dpc micelles
21	c6coyB_	Alignment	not modelled	6.3	19	PDB header: transport protein Chain: B: PDB Molecule: chloride channel protein 1; PDBTitle: human clc-1 chloride ion channel, transmembrane domain
22	c2jwaA_	Alignment	not modelled	6.2	67	PDB header: transferase Chain: A: PDB Molecule: receptor tyrosine-protein kinase erbB-2; PDBTitle: erbB2 transmembrane segment dimer spatial structure
23	c2ks1A_	Alignment	not modelled	6.2	67	PDB header: transferase Chain: A: PDB Molecule: receptor tyrosine-protein kinase erbB-2; PDBTitle: heterodimeric association of transmembrane domains of erbB1 and erbB2 receptors enabling kinase activation
24	c5o60b_	Alignment	not modelled	5.8	21	PDB header: ribosome Chain: B: PDB Molecule: 5s rrna; PDBTitle: structure of the 50s large ribosomal subunit from mycobacterium2 smegmatis
25	c5ldwc_	Alignment	not modelled	5.5	43	PDB header: oxidoreductase Chain: C: PDB Molecule: nahd dehydrogenase [ubiquinone] iron-sulfur protein 3, PDBTitle: structure of mammalian respiratory complex i, class1
26	c5lc5c_	Alignment	not modelled	5.5	43	PDB header: oxidoreductase Chain: C: PDB Molecule: nahd dehydrogenase [ubiquinone] iron-sulfur protein 3, PDBTitle: structure of mammalian respiratory complex i, class2
27	c2mltB_	Alignment	not modelled	5.4	53	PDB header: toxin (hemolytic polypeptide) Chain: B: PDB Molecule: melittin; PDBTitle: melittin
28	c2mltA_	Alignment	not modelled	5.4	53	PDB header: toxin (hemolytic polypeptide) Chain: A: PDB Molecule: melittin; PDBTitle: melittin
						PDB header: toxin

29	c6o4mB_	Alignment	not modelled	5.4	53	Chain: B: PDB Molecule: melittin; PDBTitle: racemic melittin
30	c6dstA_	Alignment	not modelled	5.4	53	PDB header: toxin Chain: A: PDB Molecule: melittin; PDBTitle: recombinant melittin
31	c6o4mA_	Alignment	not modelled	5.4	53	PDB header: toxin Chain: A: PDB Molecule: melittin; PDBTitle: racemic melittin
32	c6d0nA_	Alignment	not modelled	5.2	23	PDB header: transport protein Chain: A: PDB Molecule: clc-type fluoride/proton antiporter; PDBTitle: crystal structure of a clc-type fluoride/proton antiporter, v319g2 mutant