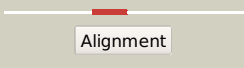

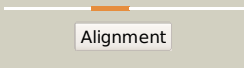
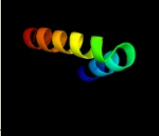
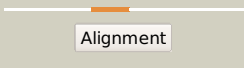
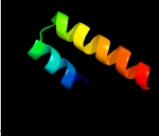
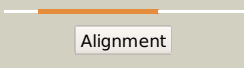

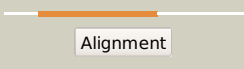

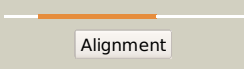

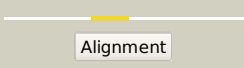

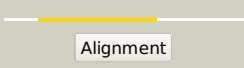

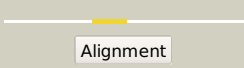

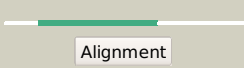

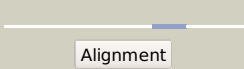
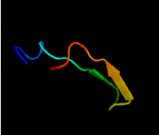
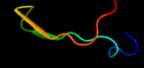

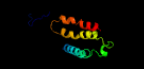

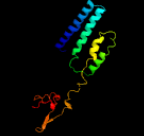

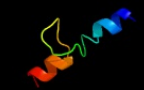




Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2306A (-) _2577118_2577711
Date	Mon Aug 5 13:25:44 BST 2019
Unique Job ID	927d394f79670655

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5d7tC_	 Alignment		90.0	22	PDB header: transport protein Chain: C; PDB Molecule: s-component for folate; PDBTitle: folate ecf transporter: apo state
2	c4huqS_	 Alignment		89.9	15	PDB header: hydrolase Chain: S; PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of a transporter
3	c4z7fD_	 Alignment		89.7	24	PDB header: transport protein Chain: D; PDB Molecule: folate ecf transporter; PDBTitle: crystal structure of folt bound with folic acid
4	c2ht2B_	 Alignment		89.7	17	PDB header: membrane protein Chain: B; PDB Molecule: h(+)/cl(-) exchange transporter clca; PDBTitle: structure of the escherichia coli clc chloride channel2 y445h mutant and fab complex
5	d1otsa_	 Alignment		88.6	18	Fold: Clc chloride channel Superfamily: Clc chloride channel Family: Clc chloride channel
6	c3nd0A_	 Alignment		82.9	16	PDB header: transport protein Chain: A; PDB Molecule: sll0855 protein; PDBTitle: x-ray crystal structure of a slow cyanobacterial cl-/h+ antiporter
7	c3p5nA_	 Alignment		75.7	15	PDB header: transport protein Chain: A; PDB Molecule: riboflavin uptake protein; PDBTitle: structure and mechanism of the s component of a bacterial ecf2 transporter
8	d1kpla_	 Alignment		73.6	19	Fold: Clc chloride channel Superfamily: Clc chloride channel Family: Clc chloride channel
9	c4hzuS_	 Alignment		70.7	13	PDB header: hydrolase, transport protein Chain: S; PDB Molecule: predicted membrane protein; PDBTitle: structure of a bacterial energy-coupling factor transporter
10	c6d0nA_	 Alignment		42.4	12	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
11	c1lshB_	 Alignment		28.7	44	PDB header: lipid binding protein Chain: B; PDB Molecule: lipovitellin (lv-2); PDBTitle: lipid-protein interactions in lipovitellin

12	d1lshb_	Alignment		28.7	44	Fold: Lipovitellin-phosvitin complex; beta-sheet shell regions Superfamily: Lipovitellin-phosvitin complex; beta-sheet shell regions Family: Lipovitellin-phosvitin complex; beta-sheet shell regions
13	c4dveA_	Alignment		27.5	17	PDB header: transport protein Chain: A; PDB Molecule: biotin transporter bioy; PDBTitle: crystal structure at 2.1 a of the s-component for biotin from an ecf-2 type abc transporter
14	c6n52B_	Alignment		20.9	15	PDB header: membrane protein Chain: B; PDB Molecule: metabotropic glutamate receptor 5; PDBTitle: metabotropic glutamate receptor 5 apo form
15	c1ciiA_	Alignment		17.2	21	PDB header: transmembrane protein Chain: A; PDB Molecule: colicin ia; PDBTitle: colicin ia
16	c5xpdA_	Alignment		16.9	16	PDB header: transport protein Chain: A; PDB Molecule: sugar transporter; PDBTitle: sugar transporter of atsweet13 in inward-facing state with a substrate2 analog
17	c2zt9E_	Alignment		13.3	35	PDB header: photosynthesis Chain: E; PDB Molecule: cytochrome b6-f complex subunit 6; PDBTitle: crystal structure of the cytochrome b6f complex from nostoc sp. pcc2 7120
18	c4ogqE_	Alignment		13.3	35	PDB header: electron transport Chain: E; PDB Molecule: cytochrome b6-f complex subunit 6; PDBTitle: internal lipid architecture of the hetero-oligomeric cytochrome b6f2 complex
19	c4h44E_	Alignment		13.3	35	PDB header: photosynthesis Chain: E; PDB Molecule: cytochrome b6-f complex subunit 6; PDBTitle: 2.70 a cytochrome b6f complex structure from nostoc pcc 7120
20	c3ifuA_	Alignment		12.8	60	PDB header: transcription Chain: A; PDB Molecule: non-structural protein; PDBTitle: the crystal structure of porcine reproductive and respiratory syndrome2 virus (prsv) leader protease nsp1
21	c2w8aC_	Alignment	not modelled	12.6	13	PDB header: membrane protein Chain: C; PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of the sodium-coupled glycine betaine2 symporter betp from corynebacterium glutamicum with bound3 substrate
22	c1yewF_	Alignment	not modelled	12.1	46	PDB header: oxidoreductase, membrane protein Chain: F; PDB Molecule: particulate methane monoxygenase, a subunit; PDBTitle: crystal structure of particulate methane monoxygenase
23	c4ainB_	Alignment	not modelled	11.9	15	PDB header: membrane protein Chain: B; PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of betp with asymmetric protomers.
24	c1qcrD_	Alignment	not modelled	11.0	38	PDB header: oxidoreductase Chain: D; PDB Molecule: ubiquinol cytochrome c oxidoreductase; PDBTitle: crystal structure of bovine mitochondrial cytochrome bc12 complex, alpha carbon atoms only
25	c6coyB_	Alignment	not modelled	10.7	13	PDB header: transport protein Chain: B; PDB Molecule: chloride channel protein 1; PDBTitle: human clc-1 chloride ion channel, transmembrane domain
26	c2kaeA_	Alignment	not modelled	10.2	33	PDB header: transcription/dna Chain: A; PDB Molecule: gata-type transcription factor; PDBTitle: data-driven model of med1:dna complex
27	c3hfxA_	Alignment	not modelled	9.6	14	PDB header: transport protein Chain: A; PDB Molecule: l-carnitine/gamma-butyrobetaine antiporter; PDBTitle: crystal structure of carnitine transporter
28	c1q2jA_	Alignment	not modelled	9.2	50	PDB header: toxin Chain: A; PDB Molecule: mu-conotoxin smiia; PDBTitle: structural basis for tetrodotoxin-resistant sodium channel2 binding by mu-conotoxin smiia

29	c4ce4F_	Alignment	not modelled	8.9	31	PDB header: ribosome Chain: F; PDB Molecule: mrp14; PDBTitle: 39s large subunit of the porcine mitochondrial ribosome
30	c4hw9E_	Alignment	not modelled	8.5	11	PDB header: membrane protein Chain: E; PDB Molecule: mechanosensitive channel mscs; PDBTitle: crystal structure of helicobacter pylori mscs (closed state)
31	c4uc2B_	Alignment	not modelled	8.3	16	PDB header: membrane protein Chain: B; PDB Molecule: translocator protein tspo; PDBTitle: crystal structure of translocator protein 18kda (tspo) from2 rhodobacter sphaeroides (a139t mutant) in p212121 space group
32	c3chxF_	Alignment	not modelled	8.0	38	PDB header: membrane protein Chain: F; PDB Molecule: pmoa; PDBTitle: crystal structure of methyloinus trichosporium ob3b particulate2 methane monooxygenase (pmmo)
33	c3rlbB_	Alignment	not modelled	8.0	12	PDB header: thiamine-binding protein Chain: B; PDB Molecule: thit; PDBTitle: crystal structure at 2.0 a of the s-component for thiamin from an ecf-2 type abc transporter
34	c5jp3A_	Alignment	not modelled	6.2	21	PDB header: hydrolase Chain: A; PDB Molecule: xanthomonas outer protein d; PDBTitle: structure of xanthomonas campestris effector protein xopd bound to2 ubiquitin
35	d1mjea2	Alignment	not modelled	6.2	46	Fold: BRCA2 tower domain Superfamily: BRCA2 tower domain Family: BRCA2 tower domain
36	c1as5A_	Alignment	not modelled	6.1	86	PDB header: neurotoxin Chain: A; PDB Molecule: conotoxin y-piie; PDBTitle: solution structure of conotoxin y-piie from conus2 purpurascens, nmr, 14 structures
37	c5c77B_	Alignment	not modelled	6.1	15	PDB header: transferase Chain: B; PDB Molecule: protein arginine n-methyltransferase sfm1; PDBTitle: a novel protein arginine methyltransferase
38	c1jloA_	Alignment	not modelled	5.7	86	PDB header: toxin Chain: A; PDB Molecule: psi-conotoxin piie; PDBTitle: solution structure of the noncompetitive skeletal muscle nicotinic2 acetylcholine receptor antagonist psi-conotoxin piie
39	c1ijjA_	Alignment	not modelled	5.7	18	PDB header: signaling protein Chain: A; PDB Molecule: erb2 receptor protein-tyrosine kinase; PDBTitle: solution structure of the neu/erb2 membrane spanning2 segment
40	c5hagA_	Alignment	not modelled	5.7	45	PDB header: hydrolase Chain: A; PDB Molecule: deubiquitinase and deneddylase dub1; PDBTitle: structure of chlamydia trachomatis effector protein chladub1
41	c2dw3A_	Alignment	not modelled	5.7	60	PDB header: photosynthesis Chain: A; PDB Molecule: intrinsic membrane protein pufx; PDBTitle: solution structure of the rhodobacter sphaeroides pufx2 membrane protein
42	c6hu9e_	Alignment	not modelled	5.6	14	PDB header: oxidoreductase/electron transport Chain: E; PDB Molecule: cytochrome b-c1 complex subunit rieske, mitochondrial; PDBTitle: iii2-iv2 mitochondrial respiratory supercomplex from s. cerevisiae
43	d1q90m_	Alignment	not modelled	5.5	22	Fold: Single transmembrane helix Superfamily: PetM subunit of the cytochrome b6f complex Family: PetM subunit of the cytochrome b6f complex
44	c1q90M_	Alignment	not modelled	5.5	22	PDB header: photosynthesis Chain: M; PDB Molecule: cytochrome b6f complex subunit petm; PDBTitle: structure of the cytochrome b6f (plastohydroquinone : plastocyanin2 oxidoreductase) from chlamydomonas reinhardtii
45	c5hamA_	Alignment	not modelled	5.1	27	PDB header: hydrolase Chain: A; PDB Molecule: rickce; PDBTitle: structure of rickettsia bellii effector protein rickce