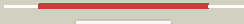

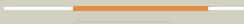






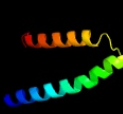

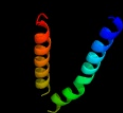
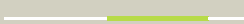




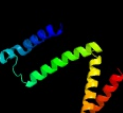






Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2639c (-)_2965036_2965368
Date	Wed Aug 7 12:50:28 BST 2019
Unique Job ID	0b64c377cf52c1b9

Detailed template
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1s7ba_	 Alignment		95.6	24	Fold: Multidrug resistance efflux transporter EmrE Superfamily: Multidrug resistance efflux transporter EmrE Family: Multidrug resistance efflux transporter EmrE
2	c5i20E_	 Alignment		87.6	16	PDB header: membrane protein Chain: E: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of protein
3	c5i20C_	 Alignment		78.9	15	PDB header: membrane protein Chain: C: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of protein
4	c6gs7A_	 Alignment		75.9	15	PDB header: membrane protein Chain: A: PDB Molecule: dipeptide and tripeptide permease a; PDBTitle: crystal structure of peptide transporter dtpa-nanobody in glycine2 buffer
5	c4ikyA_	 Alignment		69.3	20	PDB header: transport protein Chain: A: PDB Molecule: di-tripeptide abc transporter (permease); PDBTitle: crystal structure of peptide transporter pot (e310q mutant) in complex2 with sulfate
6	c4lepB_	 Alignment		66.0	19	PDB header: membrane protein, tranport protein Chain: B: PDB Molecule: proton:oligopeptide symporter pot family; PDBTitle: structural insights into substrate recognition in proton dependent2 oligopeptide transporters
7	c4q65A_	 Alignment		65.5	20	PDB header: transport protein Chain: A: PDB Molecule: dipeptide permease d; PDBTitle: structure of the e. coli peptide transporter ybgh
8	c4w6vA_	 Alignment		63.1	17	PDB header: transport protein Chain: A: PDB Molecule: di-/tripeptide transporter; PDBTitle: crystal structure of a peptide transporter from yersinia2 enterocolitica at 3 a resolution
9	c6oh2A_	 Alignment		56.3	10	PDB header: transport protein Chain: A: PDB Molecule: cmp-sialic acid transporter; PDBTitle: x-ray crystal structure of the mouse cmp-sialic acid transporter in2 complex with cmp, by lipidic cubic phase
10	c4cl5B_	 Alignment		46.6	19	PDB header: transport protein Chain: B: PDB Molecule: nitrate transporter 1.1; PDBTitle: crystal structure of the nitrate transporter nrt1.1 from2 arabidopsis thaliana in complex with nitrate.
11	c4apsB_	 Alignment		43.9	22	PDB header: transport protein Chain: B: PDB Molecule: di- or tripeptide h+ symporter; PDBTitle: crystal structure of a pot family peptide transporter in an inward2 open conformation.

12	c6exsA_	Alignment		43.7	17	PDB header: membrane protein Chain: A: PDB Molecule: peptide abc transporter permease; PDBTitle: crystal structure of a pot family transporter in complex with2 thioalcohol conjugated peptide.
13	c6i1rA_	Alignment		43.5	11	PDB header: membrane protein Chain: A: PDB Molecule: cmp-sialic acid transporter 1; PDBTitle: crystal structure of cmp bound cst in an outward facing conformation
14	c6e9oA_	Alignment		41.7	19	PDB header: membrane protein Chain: A: PDB Molecule: d-galactonate transport; PDBTitle: e. coli d-galactonate:proton symporter mutant e133q in the outward2 substrate-bound form
15	c3wdoA_	Alignment		40.5	19	PDB header: transport protein Chain: A: PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
16	c3o7pA_	Alignment		37.3	14	PDB header: transport protein Chain: A: PDB Molecule: l-fucose-proton symporter; PDBTitle: crystal structure of the e.coli fucose:proton symporter, fucp (n162a)
17	c6ei3A_	Alignment		36.9	22	PDB header: membrane protein Chain: A: PDB Molecule: proton-dependent oligopeptide transporter family protein; PDBTitle: crystal structure of auto inhibited pot family peptide transporter
18	c4iu9A_	Alignment		36.7	11	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter
19	c1pv7B_	Alignment		31.3	13	PDB header: transport protein Chain: B: PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
20	d1pv7a_	Alignment		31.3	13	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
21	c5ogeE_	Alignment	not modelled	28.3	5	PDB header: membrane protein Chain: E: PDB Molecule: gdp-mannose transporter 1; PDBTitle: crystal structure of a nucleotide sugar transporter
22	c2xutC_	Alignment	not modelled	28.3	18	PDB header: transport protein Chain: C: PDB Molecule: proton/peptide symporter family protein; PDBTitle: crystal structure of a proton dependent oligopeptide (pot) family2 transporter.
23	d1pw4a_	Alignment	not modelled	23.7	15	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
24	c6g9xB_	Alignment	not modelled	22.9	15	PDB header: membrane protein Chain: B: PDB Molecule: major facilitator superfamily mfs_1; PDBTitle: crystal structure of a mfs transporter at 2.54 angstrom resolution
25	c4j05A_	Alignment	not modelled	21.9	20	PDB header: transport protein Chain: A: PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
26	c2gfpA_	Alignment	not modelled	21.0	17	PDB header: membrane protein Chain: A: PDB Molecule: multidrug resistance protein d; PDBTitle: structure of the multidrug transporter emrd from2 escherichia coli
27	c2na8A_	Alignment	not modelled	20.6	22	PDB header: membrane protein Chain: A: PDB Molecule: cytokine receptor common subunit beta; PDBTitle: transmembrane structure of the cytokine receptor common subunit beta
28	c4zp0A_	Alignment	not modelled	20.0	13	PDB header: transport protein Chain: A: PDB Molecule: multidrug transporter mdfa; PDBTitle: crystal structure of e. coli multidrug transporter mdfa in complex2 with deoxycholate
						PDB header: transport protein

29	c4iu8A_	Alignment	not modelled	18.7	11	Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter (selenomethionine2 derivative)
30	c4ldsB_	Alignment	not modelled	16.9	15	PDB header: transport protein, membrane protein Chain: B: PDB Molecule: bicyclomycin resistance protein tcab; PDBTitle: the inward-facing structure of the glucose transporter from2 staphylococcus epidermidis
31	c5y79A_	Alignment	not modelled	15.1	7	PDB header: transport protein Chain: A: PDB Molecule: putative hexose phosphate translocator; PDBTitle: crystal structure of the triose-phosphate/phosphate translocator in2 complex with 3-phosphoglycerate
32	c2na9A_	Alignment	not modelled	14.5	17	PDB header: signaling protein Chain: A: PDB Molecule: cytokine receptor common subunit beta; PDBTitle: transmembrane structure of the p441a mutant of the cytokine receptor2 common subunit beta
33	c3msqC_	Alignment	not modelled	14.4	33	PDB header: biosynthetic protein Chain: C: PDB Molecule: putative ubiquinone biosynthesis protein; PDBTitle: crystal structure of a putative ubiquinone biosynthesis protein2 (npun02000094) from nostoc punctiforme pcc 73102 at 2.85 a resolution
34	c1w8xP_	Alignment	not modelled	13.0	38	PDB header: virus Chain: P: PDB Molecule: protein p16; PDBTitle: structural analysis of prd1
35	c3kb4D_	Alignment	not modelled	10.5	25	PDB header: structural genomics, unknown function Chain: D: PDB Molecule: alr8543 protein; PDBTitle: crystal structure of the alr8543 protein in complex with2 geranylgeranyl monophosphate and magnesium ion from nostoc sp. pcc3 7120, northeast structural genomics consortium target nsr141
36	d2cvea2	Alignment	not modelled	10.1	58	Fold: Ferredoxin-like Superfamily: EF-G C-terminal domain-like Family: YigZ C-terminal domain-like
37	d2ipqx1	Alignment	not modelled	9.3	27	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: STY4665 C-terminal domain-like
38	d2fnoa1	Alignment	not modelled	6.3	17	Fold: GST C-terminal domain-like Superfamily: GST C-terminal domain-like Family: Glutathione S-transferase (GST), C-terminal domain
39	c3dveB_	Alignment	not modelled	6.0	63	PDB header: membrane protein Chain: B: PDB Molecule: voltage-dependent n-type calcium channel subunit alpha-1b; PDBTitle: crystal structure of ca2+/cam-cav2.2 iq domain complex
40	c2kbvA_	Alignment	not modelled	5.9	40	PDB header: membrane protein Chain: A: PDB Molecule: sodium/hydrogen exchanger 1; PDBTitle: structural and functional analysis of tm xi of the nhe12 isoform of the na+/h+ exchanger
41	c4nlhA_	Alignment	not modelled	5.7	25	PDB header: protein binding Chain: A: PDB Molecule: tax1-binding protein 1; PDBTitle: skich domain of human tax1bp1
42	c4ds7E_	Alignment	not modelled	5.6	42	PDB header: protein binding Chain: E: PDB Molecule: spindle pole body component 110; PDBTitle: crystal structure of yeast calmodulin bound to the c-terminal fragment2 of spindle pole body protein spc110
43	c3vvwA_	Alignment	not modelled	5.6	50	PDB header: protein transport Chain: A: PDB Molecule: calcium-binding and coiled-coil domain-containing protein PDBTitle: ndp52 in complex with lc3c
44	d1b1ya_	Alignment	not modelled	5.5	23	Fold: TIM beta/alpha-barrel Superfamily: (Trans)glycosidases Family: Amylase, catalytic domain
45	c6nhwD_	Alignment	not modelled	5.1	67	PDB header: immune system Chain: D: PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
46	c6nhwA_	Alignment	not modelled	5.1	67	PDB header: immune system Chain: A: PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 - dimer2 of trimer
47	c1zzaA_	Alignment	not modelled	5.0	42	PDB header: membrane protein Chain: A: PDB Molecule: stannin; PDBTitle: solution nmr structure of the membrane protein stannin
48	c6nhyB_	Alignment	not modelled	5.0	67	PDB header: immune system Chain: B: PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 mutant2 (g217y) - trimer only
49	c6nhyA_	Alignment	not modelled	5.0	67	PDB header: immune system Chain: A: PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 mutant2 (g217y) - trimer only
50	c6nhyC_	Alignment	not modelled	5.0	67	PDB header: immune system Chain: C: PDB Molecule: tumor necrosis factor receptor superfamily member 10b; PDBTitle: structure of the transmembrane domain of the death receptor 5 mutant2 (g217y) - trimer only