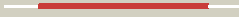














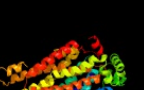



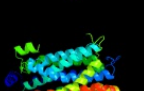

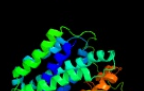


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD2846c_(efpA)_3153049_3154641
 Date Wed Aug 7 12:50:51 BST 2019
 Unique Job ID 4f510116a27a1101

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1pw4a_	 Alignment		100.0	11	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
2	c6e9oA_	 Alignment		100.0	15	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
3	c4zp0A_	 Alignment		100.0	17	PDB header: transport protein Chain: A: PDB Molecule: multidrug transporter mdfa; PDBTitle: crystal structure of e. coli multidrug transporter mdfa in complex2 with deoxycholate
4	c4ldsB_	 Alignment		100.0	14	PDB header: transport protein, membrane protein Chain: B: PDB Molecule: bicyclomycin resistance protein tcb; PDBTitle: the inward-facing structure of the glucose transporter from2 staphylococcus epidermidis
5	c4cl5B_	 Alignment		100.0	11	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.
6	c3wdoA_	 Alignment		100.0	17	PDB header: transport protein Chain: A: PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
7	c4j05A_	 Alignment		100.0	14	PDB header: transport protein Chain: A: PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
8	c6h7dA_	 Alignment		100.0	13	PDB header: membrane protein Chain: A: PDB Molecule: sugar transport protein 10; PDBTitle: crystal structure of a. thaliana sugar transport protein 10 in complex2 with glucose in the outward occluded state
9	c6gs7A_	 Alignment		100.0	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
10	c4ikyA_	 Alignment		100.0	12	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
11	c2gfpA_	 Alignment		100.0	19	PDB header: membrane protein Chain: A: PDB Molecule: multidrug resistance protein d; PDBTitle: structure of the multidrug transporter emrd from2 escherichia coli

12	c4apsB_	Alignment		100.0	11	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.
13	c4gbzA_	Alignment		100.0	13	PDB header: transport protein Chain: A: PDB Molecule: d-xylose-proton symporter; PDBTitle: the structure of the mfs (major facilitator superfamily) proton:xylose2 symporter xyle bound to d-glucose
14	c5c65A_	Alignment		100.0	12	PDB header: transport protein Chain: A: PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: structure of the human glucose transporter glut3 / slc2a3
15	c6exsA_	Alignment		100.0	10	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.
16	c6g9xB_	Alignment		100.0	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
17	c2xutC_	Alignment		100.0	11	PDB header: transport protein Chain: C: PDB Molecule: proton/peptide symporter family protein; PDBTitle: crystal structure of a proton dependent oligopeptide (pot) family2 transporter.
18	c4w6vA_	Alignment		100.0	12	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
19	c6ei3A_	Alignment		100.0	12	PDB header: membrane protein Chain: A: PDB Molecule: proton-dependent oligopeptide transporter family protein; PDBTitle: crystal structure of auto inhibited pot family peptide transporter
20	c4ybgB_	Alignment		100.0	9	PDB header: transport protein/immune system Chain: B: PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: rat glut5 with fv in the outward-open form
21	c3o7pA_	Alignment	not modelled	100.0	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)
22	c4pypA_	Alignment	not modelled	100.0	9	PDB header: transport protein Chain: A: PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: crystal structure of the human glucose transporter glut1
23	d1pv7a_	Alignment	not modelled	100.0	11	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
24	c1pv7B_	Alignment	not modelled	100.0	11	PDB header: transport protein Chain: B: PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
25	c4lepB_	Alignment	not modelled	100.0	12	PDB header: membrane protein, transport protein Chain: B: PDB Molecule: proton:oligopeptide symporter pot family; PDBTitle: structural insights into substrate recognition in proton dependent2 oligopeptide transporters
26	c4iu8A_	Alignment	not modelled	100.0	12	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter (selenomethionine2 derivative)
27	c4q65A_	Alignment	not modelled	100.0	13	PDB header: transport protein Chain: A: PDB Molecule: dipeptide permease d; PDBTitle: structure of the e. coli peptide transporter ybgh
28	c4iu9A_	Alignment	not modelled	100.0	13	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter
						PDB header: transport protein

29	c5aynA_	Alignment	not modelled	100.0	12	Chain: A; PDB Molecule: solute carrier family 39 (iron-regulated transporter); PDBTitle: crystal structure of a bacterial homologue of iron transporter2 ferroportin in outward-facing state
30	c5aymA_	Alignment	not modelled	99.9	12	PDB header: transport protein Chain: A; PDB Molecule: solute carrier family 39 (iron-regulated transporter); PDBTitle: crystal structure of a bacterial homologue of iron transporter2 ferroportin in outward-facing state with soaked iron
31	c4m64D_	Alignment	not modelled	99.9	12	PDB header: transport protein Chain: D; PDB Molecule: melibiose carrier protein; PDBTitle: 3d crystal structure of na+/melibiose symporter of salmonella2 typhimurium
32	c6ob7A_	Alignment	not modelled	99.7	14	PDB header: transport protein Chain: A; PDB Molecule: equilibrative nucleoside transporter 1; PDBTitle: human equilibrative nucleoside transporter-1, dilazep bound
33	c4k1cB_	Alignment	not modelled	59.0	14	PDB header: membrane protein/metal transport Chain: B; PDB Molecule: vacuolar calcium ion transporter; PDBTitle: vcx1 calcium/proton exchanger
34	c4kppA_	Alignment	not modelled	53.3	9	PDB header: membrane protein Chain: A; PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of h+/ca2+ exchanger cax
35	c4k1cA_	Alignment	not modelled	53.1	13	PDB header: membrane protein/metal transport Chain: A; PDB Molecule: vacuolar calcium ion transporter; PDBTitle: vcx1 calcium/proton exchanger
36	c3qngD_	Alignment	not modelled	46.5	12	PDB header: membrane protein, transport protein Chain: D; PDB Molecule: pts system, cellobiose-specific iic component; PDBTitle: crystal structure of the transporter chbc, the iic component from the2 n,n'-diacetylchitobiose-specific phosphotransferase system
37	c5sv0C_	Alignment	not modelled	19.3	20	PDB header: transport protein Chain: C; PDB Molecule: biopolymer transport protein exbb; PDBTitle: structure of the exbb/exbd complex from e. coli at ph 7.0
38	d2oara1	Alignment	not modelled	17.4	9	Fold: Gated mechanosensitive channel Superfamily: Gated mechanosensitive channel Family: Gated mechanosensitive channel
39	c2g9pA_	Alignment	not modelled	13.5	43	PDB header: antimicrobial protein Chain: A; PDB Molecule: antimicrobial peptide latarcin 2a; PDBTitle: nmr structure of a novel antimicrobial peptide, latarcin 2a,2 from spider (lachesana tarabaevi) venom
40	c6nbxG_	Alignment	not modelled	11.8	6	PDB header: oxidoreductase Chain: G; PDB Molecule: nadh-quinone oxidoreductase subunit j; PDBTitle: t.elongatus ndh (data-set 2)
41	c3b9yA_	Alignment	not modelled	9.3	11	PDB header: transport protein Chain: A; PDB Molecule: ammonium transporter family rh-like protein; PDBTitle: crystal structure of the nitrosomonas europaea rh protein
42	c5kk2E_	Alignment	not modelled	8.3	8	PDB header: membrane protein, transport protein, sig Chain: E; PDB Molecule: voltage-dependent calcium channel gamma-2 subunit; PDBTitle: architecture of fully occupied glua2 ampa receptor - tarp complex2 elucidated by single particle cryo-electron microscopy
43	d3proc1	Alignment	not modelled	8.1	10	Fold: Alpha-lytic protease prodomain-like Superfamily: Alpha-lytic protease prodomain Family: Alpha-lytic protease prodomain
44	c5aexJ_	Alignment	not modelled	7.8	8	PDB header: membrane protein Chain: J; PDB Molecule: ammonium transporter mep2; PDBTitle: crystal structure of saccharomyces cerevisiae mep2
45	c4dveA_	Alignment	not modelled	7.5	10	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
46	c2rddB_	Alignment	not modelled	6.9	21	PDB header: membrane protein/transport protein Chain: B; PDB Molecule: upf0092 membrane protein yajc; PDBTitle: x-ray crystal structure of acrb in complex with a novel2 transmembrane helix.
47	c6qkcJ_	Alignment	not modelled	5.6	8	PDB header: membrane protein Chain: J; PDB Molecule: voltage-dependent calcium channel gamma-8 subunit; PDBTitle: glua1/2 in complex with auxiliary subunit gamma-8
48	c3mkuB_	Alignment	not modelled	5.5	11	PDB header: transport protein Chain: B; PDB Molecule: multi antimicrobial extrusion protein (na+)/drug PDBTitle: structure of a cation-bound multidrug and toxin compound extrusion2 (mate) transporter