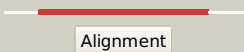

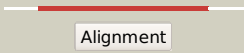

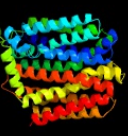
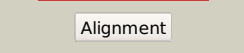



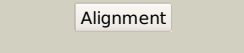

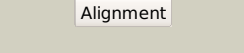



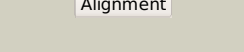

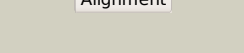
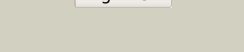
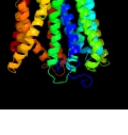


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2265_(-)_2538710_2539939
Date	Mon Aug 5 13:25:40 BST 2019
Unique Job ID	0b111225f58ffc02

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6e9oA_	 Alignment		100.0	11	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
2	c3wdoA_	 Alignment		100.0	13	PDB header: transport protein Chain: A: PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
3	c4zp0A_	 Alignment		100.0	11	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	d1pw4a_	 Alignment		100.0	15	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
5	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
6	c4cl5B_	 Alignment		100.0	10	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.
7	c2gfpA_	 Alignment		100.0	13	PDB header: membrane protein Chain: A: PDB Molecule: multidrug resistance protein d; PDBTitle: structure of the multidrug transporter emrd from2 escherichia coli
8	c4ldsB_	 Alignment		100.0	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
9	c6g9xB_	 Alignment		100.0	13	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
10	c4apsB_	 Alignment		100.0	13	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.
11	c6exsA_	 Alignment		100.0	13	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.

12	c4iu8A_	Alignment		100.0	10	PDB header: transport protein Chain: A; PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter (selenomethionine2 derivative)
13	d1pv7a_	Alignment		100.0	12	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
14	c1pv7B_	Alignment		100.0	12	PDB header: transport protein Chain: B; PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
15	c6gs7A_	Alignment		100.0	14	PDB header: membrane protein Chain: A; PDB Molecule: dipeptide and tripeptide permease a; PDBTitle: crystal structure of peptide transporter dtpa-nanobody in glycine2 buffer
16	c4j05A_	Alignment		100.0	13	PDB header: transport protein Chain: A; PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
17	c6h7dA_	Alignment		100.0	12	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
18	c3o7pA_	Alignment		100.0	11	PDB header: transport protein Chain: A; PDB Molecule: l-fucose-proton symporter; PDBTitle: crystal structure of the e.coli fucose:proton symporter, fucp (n162a)
19	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
20	c5c65A_	Alignment		100.0	10	PDB header: transport protein Chain: A; PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: structure of the human glucose transporter glut3 / slc2a3
21	c5aynA_	Alignment	not modelled	100.0	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
22	c4iu9A_	Alignment	not modelled	100.0	11	PDB header: transport protein Chain: A; PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter
23	c2xutC_	Alignment	not modelled	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.
24	c6ei3A_	Alignment	not modelled	100.0	10	PDB header: membrane protein Chain: A; PDB Molecule: proton-dependent oligopeptide transporter family protein; PDBTitle: crystal structure of auto inhibited pot family peptide transporter
25	c4lepB_	Alignment	not modelled	100.0	10	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	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 ybhg
27	c4ybgB_	Alignment	not modelled	100.0	11	PDB header: transport protein/immune system transporter Chain: B; PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: rat glut5 with fv in the outward-open form
28	c4pypA_	Alignment	not modelled	100.0	11	PDB header: transport protein Chain: A; PDB Molecule: solute carrier family 2, facilitated glucose transporter

29	c5aymA_	Alignment	not modelled	100.0	12	PDBTitle: crystal structure of the human glucose transporter glut1 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
30	c4gbzA_	Alignment	not modelled	99.9	9	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
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	99.6	11	PDB header: transport protein Chain: A: PDB Molecule: equilibrative nucleoside transporter 1; PDBTitle: human equilibrative nucleoside transporter-1, dilazep bound
33	c4kppA_	Alignment	not modelled	39.6	12	PDB header: membrane protein Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of h+/ca2+ exchanger cax
34	c3b9yA_	Alignment	not modelled	37.9	11	PDB header: transport protein Chain: A: PDB Molecule: ammonium transporter family rh-like protein; PDBTitle: crystal structure of the nitrosomonas europaea rh protein
35	c5y50A_	Alignment	not modelled	23.9	14	PDB header: membrane protein Chain: A: PDB Molecule: protein detoxification 14; PDBTitle: crystal structure of eukaryotic mate transporter atdtx14
36	c5xjjA_	Alignment	not modelled	23.5	8	PDB header: transport protein Chain: A: PDB Molecule: multi drug efflux transporter; PDBTitle: crystal structure of a mate family protein
37	c6cc4A_	Alignment	not modelled	21.6	13	PDB header: transport protein Chain: A: PDB Molecule: soluble cytochrome b562, lipid ii flippase murj chimera; PDBTitle: structure of murj from escherichia coli
38	c4k1cA_	Alignment	not modelled	14.1	11	PDB header: membrane protein/metal transport Chain: A: PDB Molecule: vacuolar calcium ion transporter; PDBTitle: vcx1 calcium/proton exchanger
39	c4k1cB_	Alignment	not modelled	12.3	11	PDB header: membrane protein/metal transport Chain: B: PDB Molecule: vacuolar calcium ion transporter; PDBTitle: vcx1 calcium/proton exchanger
40	c6eu6A_	Alignment	not modelled	11.8	11	PDB header: membrane protein Chain: A: PDB Molecule: ammonium transporter; PDBTitle: sensor amt protein
41	c2g9pA_	Alignment	not modelled	10.1	21	PDB header: antimicrobial protein Chain: A: PDB Molecule: antimicrobial peptide laticin 2a; PDBTitle: nmr structure of a novel antimicrobial peptide, laticin 2a,2 from spider (lachesana tarabaevi) venom
42	c6hwhB_	Alignment	not modelled	9.9	13	PDB header: electron transport Chain: B: PDB Molecule: ubiquinol-cytochrome c reductase iron-sulfur subunit; PDBTitle: structure of a functional obligate respiratory supercomplex from2 mycobacterium smegmatis
43	c3v5uA_	Alignment	not modelled	5.4	10	PDB header: metal transport Chain: A: PDB Molecule: uncharacterized membrane protein mj0091; PDBTitle: structure of sodium/calcium exchanger from methanocaldococcus2 jannaschii dsm 2661