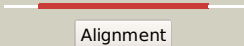



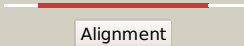





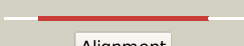

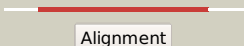



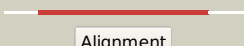



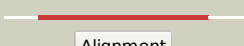



Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0191 (-) _222287_223528
Date	Tue Jul 23 14:50:24 BST 2019
Unique Job ID	df9ea9631bc6bbc2

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	c4zp0A_	 Alignment		100.0	12	PDB header: transport protein Chain: A; PDB Molecule: multidrug transporter mdfa; PDBTitle: crystal structure of e. coli multidrug transporter mdfa in complex2 with deoxycholate
3	c2gfpA_	 Alignment		100.0	15	PDB header: membrane protein Chain: A; PDB Molecule: multidrug resistance protein d; PDBTitle: structure of the multidrug transporter emrd from2 escherichia coli
4	d1pw4a_	 Alignment		100.0	12	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
5	c3wdoA_	 Alignment		100.0	13	PDB header: transport protein Chain: A; PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
6	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
7	c6g9xB_	 Alignment		100.0	16	PDB header: membrane protein Chain: B; PDB Molecule: major facilitator superfamily mfs_1; PDBTitle: crystal structure of a mfs transporter at 2.54 angstroem resolution
8	c4cl5B_	 Alignment		100.0	9	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.
9	c4apsB_	 Alignment		100.0	12	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.
10	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.
11	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)

12	c4iu9A_	Alignment		100.0	9	PDB header: transport protein Chain: A; PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter
13	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
14	c3o7pA_	Alignment		100.0	13	PDB header: transport protein Chain: A; PDB Molecule: l-fucose-proton symporter; PDBTitle: crystal structure of the e.coli fucose:proton symporter, fucp (n162a)
15	c4j05A_	Alignment		100.0	11	PDB header: transport protein Chain: A; PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
16	c4w6vA_	Alignment		100.0	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
17	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
18	c6gs7A_	Alignment		100.0	10	PDB header: membrane protein Chain: A; PDB Molecule: dipeptide and tripeptide permease a; PDBTitle: crystal structure of peptide transporter dtpa-nanobody in glycine2 buffer
19	c4q65A_	Alignment		100.0	9	PDB header: transport protein Chain: A; PDB Molecule: dipeptide permease d; PDBTitle: structure of the e. coli peptide transporter ybgh
20	c1pv7B_	Alignment		100.0	11	PDB header: transport protein Chain: B; PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
21	d1pv7a_	Alignment	not modelled	100.0	11	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
22	c5c65A_	Alignment	not modelled	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
23	c4pyyA_	Alignment	not modelled	100.0	13	PDB header: transport protein Chain: A; PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: crystal structure of the human glucose transporter glut1
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	c2xutC_	Alignment	not modelled	100.0	9	PDB header: transport protein Chain: C; PDB Molecule: proton/peptide symporter family protein; PDBTitle: crystal structure of a proton dependent oligopeptide (pot) family2 transporter.
26	c4lepB_	Alignment	not modelled	100.0	11	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
27	c4ybgB_	Alignment	not modelled	100.0	11	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
28	c5aynA_	Alignment	not modelled	100.0	11	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
29	c4gbzA_	Alignment	not modelled	100.0	12	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
30	c5aymA_	Alignment	not modelled	100.0	10	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	99.5	10	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	52.3	13	PDB header: membrane protein Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of h+/ca2+ exchanger cax
34	c3v5uA_	Alignment	not modelled	18.2	15	PDB header: metal transport Chain: A: PDB Molecule: uncharacterized membrane protein mj0091; PDBTitle: structure of sodium/calcium exchanger from methanocaldococcus2 jannaschii dsm 2661
35	c2g9pA_	Alignment	not modelled	11.1	8	PDB header: antimicrobial protein Chain: A: PDB Molecule: antimicrobial peptide laticarin 2a; PDBTitle: nmr structure of a novel antimicrobial peptide, laticarin 2a,2 from spider (lachesana tarabaevi) venom