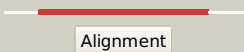

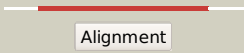



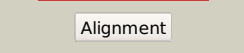



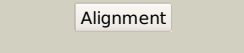

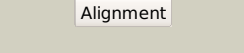



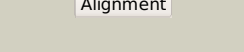

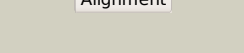

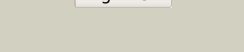



Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD3476c_(kgtP)_3892550_3893899
Date	Fri Aug 9 18:20:15 BST 2019
Unique Job ID	24acc30daec39583

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6h7dA_	 Alignment		100.0	14	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
2	c5c65A_	 Alignment		100.0	16	PDB header: transport protein Chain: A: PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: structure of the human glucose transporter glut3 / slc2a3
3	c4j05A_	 Alignment		100.0	17	PDB header: transport protein Chain: A: PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
4	c4ybgB_	 Alignment		100.0	13	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
5	c4gbzA_	 Alignment		100.0	15	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
6	c4ldsB_	 Alignment		100.0	17	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	d1pw4a_	 Alignment		100.0	14	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
8	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
9	c4pypA_	 Alignment		100.0	16	PDB header: transport protein Chain: A: PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: crystal structure of the human glucose transporter glut1
10	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
11	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.

12	d1pv7a_	Alignment		100.0	11	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
13	c1pv7B_	Alignment		100.0	11	PDB header: transport protein Chain: B: PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
14	c4w6vA_	Alignment		100.0	14	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
15	c3o7pA_	Alignment		100.0	8	PDB header: transport protein Chain: A: PDB Molecule: l-fucose-proton symporter; PDBTitle: crystal structure of the e.coli fucose:proton symporter, fucp (n162a)
16	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
17	c6exsA_	Alignment		100.0	11	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.
18	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)
19	c4ikyA_	Alignment		100.0	13	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
20	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
21	c3wdoA_	Alignment	not modelled	100.0	12	PDB header: transport protein Chain: A: PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
22	c4apsB_	Alignment	not modelled	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.
23	c6ei3A_	Alignment	not modelled	100.0	14	PDB header: membrane protein Chain: A: PDB Molecule: proton-dependent oligopeptide transporter family protein; PDBTitle: crystal structure of auto inhibited pot family peptide transporter
24	c2gfpA_	Alignment	not modelled	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
25	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
26	c4lepB_	Alignment	not modelled	99.9	9	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
27	c4iu9A_	Alignment	not modelled	99.9	13	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter
28	c5aynA_	Alignment	not modelled	99.9	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 PDB header: transport protein Chain: C: PDB Molecule: proton/peptide symporter family protein; PDBTitle: crystal structure of a proton dependent oligopeptide (pot) family2 transporter.
29	c2xutC_	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
30	c5aymA_	Alignment	not modelled	99.9	10	PDB header: transport protein Chain: D: PDB Molecule: melibiose carrier protein; PDBTitle: 3d crystal structure of na+/melibiose symporter of salmonella2 typhimurium
31	c4m64D_	Alignment	not modelled	99.7	9	PDB header: transport protein Chain: A: PDB Molecule: equilibrative nucleoside transporter 1; PDBTitle: human equilibrative nucleoside transporter-1, dilazep bound
32	c6ob7A_	Alignment	not modelled	99.3	9	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
33	c3mkuB_	Alignment	not modelled	68.1	7	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
34	c3qngD_	Alignment	not modelled	57.0	16	PDB header: transport protein Chain: A: PDB Molecule: multi antimicrobial extrusion protein (na(+))/drug PDBTitle: structure of a cation-bound multidrug and toxin compound extrusion2 (mate) transporter
35	c3mkuA_	Alignment	not modelled	42.1	7	PDB header: transport protein Chain: A: PDB Molecule: sugar transporter; PDBTitle: sugar transporter of atsweet13 in inward-facing state with a substrate2 analog
36	c3b9yA_	Alignment	not modelled	31.1	12	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
37	c5xpdA_	Alignment	not modelled	26.3	13	PDB header: hydrolase Chain: I: PDB Molecule: thrombin inhibitor madanin 1; PDBTitle: disulfated madanin-thrombin complex
38	c2g9pA_	Alignment	not modelled	25.7	29	PDB header: electron transport Chain: X: PDB Molecule: cytochrome c oxidase polypeptide 4; PDBTitle: structure of a functional obligate respiratory supercomplex from2 mycobacterium smegmatis
39	c5l6nI_	Alignment	not modelled	12.7	18	PDB header: membrane protein Chain: A: PDB Molecule: protein detoxification 14; PDBTitle: crystal structure of eukaryotic mate transporter atdtx14
40	c6hwhX_	Alignment	not modelled	11.0	12	Fold: DNA/RNA-binding 3-helical bundle Superfamily: Homeodomain-like Family: Myb/SANT domain
41	c5y50A_	Alignment	not modelled	10.5	11	PDB header: membrane protein/metal transport Chain: A: PDB Molecule: vacuolar calcium ion transporter; PDBTitle: vcx1 calcium/proton exchanger
42	d1ofcx1	Alignment	not modelled	9.0	7	PDB header: membrane protein, transport protein Chain: A: PDB Molecule: ammonium transporter rh type c; PDBTitle: crystal structure of the human rhesus glycoprotein rhcg
43	c4k1cA_	Alignment	not modelled	8.5	14	PDB header: oxidoreductase Chain: D: PDB Molecule: phenol hydroxylase component phi; PDBTitle: structure of the phenol hydroxylase-regulatory protein2 complex
44	c3hd6A_	Alignment	not modelled	8.1	9	PDB header: transport protein Chain: A: PDB Molecule: multi drug efflux transporter; PDBTitle: crystal structure of a mate family protein
45	c2inpD_	Alignment	not modelled	7.8	33	PDB header: cell adhesion Chain: A: PDB Molecule: integrin alpha-iiB; PDBTitle: platelet integrin alfaIiB-beta3 transmembrane-cytoplasmic2 heterocomplex
46	c5xjA_	Alignment	not modelled	7.7	6	PDB header: transferase Chain: A: PDB Molecule: sensor protein kdPd; PDBTitle: backbone structure of the membrane domain of e. coli histidine kinase2 receptor kdPd, center for structures of membrane proteins (csmP)3 target 4312c
47	c2kncA_	Alignment	not modelled	6.8	8	PDB header: membrane protein/metal transport Chain: B: PDB Molecule: vacuolar calcium ion transporter; PDBTitle: vcx1 calcium/proton exchanger
48	c2ksfA_	Alignment	not modelled	5.7	10	PDB header: metal transport Chain: P: PDB Molecule: cation efflux family protein; PDBTitle: inward-facing conformation of the zinc transporter yiiP revealed by2 cryo-electron microscopy
49	c4k1cB_	Alignment	not modelled	5.5	12	PDB header: oxidoreductase Chain: G: PDB Molecule: nadh-ubiquinone oxidoreductase 75 kda subunit, PDBTitle: structure of mammalian respiratory complex i, class1
50	c3j1zP_	Alignment	not modelled	5.2	13	
51	c5ldwg_	Alignment	not modelled	5.1	7	