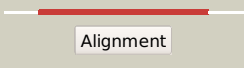

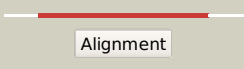

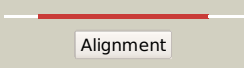

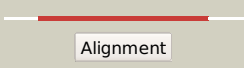

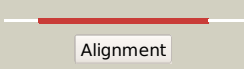

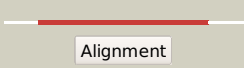

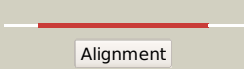

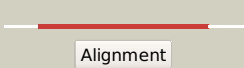

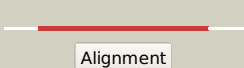

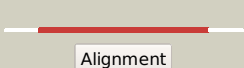

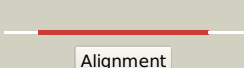






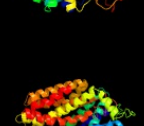

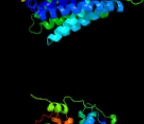



Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD0842_(-)_938115_939407
Date	Fri Jul 26 01:50:43 BST 2019
Unique Job ID	272acb36ae2e72f8

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3wdoA_			100.0	15	PDB header: transport protein Chain: A; PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
2	d1pw4a_			100.0	13	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
3	c6e9oA_			100.0	13	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
4	c4zp0A_			100.0	14	PDB header: transport protein Chain: A; PDB Molecule: multidrug transporter mdfa; PDBTitle: crystal structure of e. coli multidrug transporter mdfa in complex2 with deoxycholate
5	c1pv7B_			100.0	11	PDB header: transport protein Chain: B; PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
6	d1pv7a_			100.0	11	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
7	c4ikyA_			100.0	16	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
8	c4apsB_			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.
9	c6exsA_			100.0	15	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.
10	c4w6vA_			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
11	c6g9xB_			100.0	14	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

12	c4ldsB	Alignment		100.0	14	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
13	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.
14	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
15	c4q65A	Alignment		100.0	13	PDB header: transport protein Chain: A; PDB Molecule: dipeptide permease d; PDBTitle: structure of the e. coli peptide transporter ybgh
16	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
17	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)
18	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
19	c6ei3A	Alignment		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
20	c4j05A	Alignment		100.0	10	PDB header: transport protein Chain: A; PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
21	c5aynA	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
22	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
23	c5c65A	Alignment	not modelled	100.0	11	PDB header: transport protein Chain: A; PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: structure of the human glucose transporter glut3 / slc2a3
24	c4yqbB	Alignment	not modelled	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
25	c2xutC	Alignment	not modelled	100.0	15	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	c5aymA	Alignment	not modelled	100.0	9	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
27	c4iu8A	Alignment	not modelled	100.0	14	PDB header: transport protein Chain: A; PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter (selenomethionine2 derivative)
28	c1nvaA	Alignment	not modelled	100.0	15	PDB header: transport protein Chain: A; PDB Molecule: solute carrier family 2, facilitated glucose

28	c3pyyA_	Alignment	not modelled	100.0	13	transporter PDBTitle: crystal structure of the human glucose transporter glut1
29	c4iu9A_	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
30	c4gbzA_	Alignment	not modelled	99.9	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
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	11	PDB header: transport protein Chain: A: PDB Molecule: equilibrative nucleoside transporter 1; PDBTitle: human equilibrative nucleoside transporter-1, dilazep bound
33	c6e2pC_	Alignment	not modelled	17.8	33	PDB header: signaling protein Chain: C: PDB Molecule: leptin receptor; PDBTitle: structure of human jak2 ferm/sh2 in complex with leptin receptor
34	c3b9yA_	Alignment	not modelled	9.6	12	PDB header: transport protein Chain: A: PDB Molecule: ammonium transporter family rh-like protein; PDBTitle: crystal structure of the nitrosomonas europaea rh protein
35	c2g9pA_	Alignment	not modelled	8.7	29	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
36	c5khnB_	Alignment	not modelled	8.3	12	PDB header: membrane protein Chain: B: PDB Molecule: rnd transporter; PDBTitle: crystal structures of the burkholderia multivorans hopanoid2 transporter hpnn
37	c2levA_	Alignment	not modelled	7.3	22	PDB header: transcription regulator/dna Chain: A: PDB Molecule: ler; PDBTitle: structure of the dna complex of the c-terminal domain of ler
38	c3dh4A_	Alignment	not modelled	7.0	11	PDB header: transport protein Chain: A: PDB Molecule: sodium/glucose cotransporter; PDBTitle: crystal structure of sodium/sugar symporter with bound galactose from2 vibrio parahaemolyticus
39	c2nuuF_	Alignment	not modelled	6.4	12	PDB header: transport protein/signaling protein Chain: F: PDB Molecule: ammonia channel; PDBTitle: regulating the escherichia coli ammonia channel: the crystal structure2 of the amtB-glnK complex
40	c1ansA_	Alignment	not modelled	6.2	71	PDB header: toxin Chain: A: PDB Molecule: neurotoxin iii; PDBTitle: three-dimensional structure in solution of neurotoxin iii from the sea2 anemone anemonia sulcata
41	d2fnoa1	Alignment	not modelled	5.8	21	Fold: GST C-terminal domain-like Superfamily: GST C-terminal domain-like Family: Glutathione S-transferase (GST), C-terminal domain
42	c4dveA_	Alignment	not modelled	5.3	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