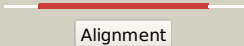

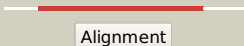

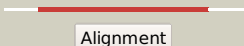






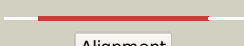










Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2459 (-) _2760864_2762390
Date	Wed Aug 7 12:50:08 BST 2019
Unique Job ID	d6c1d2360e2b4d12

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	d1pw4a_	 Alignment		100.0	14	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
2	c4zp0A_	 Alignment		100.0	18	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	c6e9oA_	 Alignment		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	c3wdoA_	 Alignment		100.0	20	PDB header: transport protein Chain: A: PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
5	c4cl5B_	 Alignment		100.0	13	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	c6gs7A_	 Alignment		100.0	13	PDB header: membrane protein Chain: A: PDB Molecule: dipeptide and tripeptide permease a; PDBTitle: crystal structure of peptide transporter dtpa-nanobody in glycine2 buffer
7	c4ikyA_	 Alignment		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_	 Alignment		100.0	14	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	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
10	c2gfpA_	 Alignment		100.0	18	PDB header: membrane protein Chain: A: PDB Molecule: multidrug resistance protein d; PDBTitle: structure of the multidrug transporter emrd from2 escherichia coli
11	c4ldsB_	 Alignment		100.0	16	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

12	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
13	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
14	c5c65A_	Alignment		100.0	14	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	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.
16	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
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	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)
19	c4gbzA_	Alignment		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
20	c4pypA_	Alignment		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
21	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
22	c1pv7B_	Alignment	not modelled	100.0	13	PDB header: transport protein Chain: B: PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
23	d1pv7a_	Alignment	not modelled	100.0	13	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
24	c4j05A_	Alignment	not modelled	100.0	19	PDB header: transport protein Chain: A: PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
25	c4ybgB_	Alignment	not modelled	100.0	12	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
26	c4q65A_	Alignment	not modelled	100.0	11	PDB header: transport protein Chain: A: PDB Molecule: dipeptide permease d; PDBTitle: structure of the e. coli peptide transporter ybgh
27	c4iu8A_	Alignment	not modelled	100.0	10	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter (selenomethionine2 derivative)
28	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
						PDB header: transport protein Chain: A: PDB Molecule: solute carrier family 39 (iron-regulated

29	c5aynA	Alignment	not modelled	100.0	15	transporter); PDBTitle: crystal structure of a bacterial homologue of iron transporter2 ferroportin in outward-facing state
30	c5aymA	Alignment	not modelled	100.0	15	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	99.8	11	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	99.8	13	PDB header: transport protein Chain: A: PDB Molecule: equilibrative nucleoside transporter 1; PDBTitle: human equilibrative nucleoside transporter-1, dilazep bound
33	c6c14A	Alignment	not modelled	46.8	3	PDB header: membrane protein, metal transport Chain: A: PDB Molecule: protocadherin-15; PDBTitle: cryoem structure of mouse pcdh15-1ec-lhfp15 complex
34	c3b9yA	Alignment	not modelled	33.2	9	PDB header: transport protein Chain: A: PDB Molecule: ammonium transporter family rh-like protein; PDBTitle: crystal structure of the nitrosomonas europaea rh protein
35	d1jhfa1	Alignment	not modelled	32.0	13	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: LexA repressor, N-terminal DNA-binding domain
36	c2g9pA	Alignment	not modelled	19.1	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
37	c5y79A	Alignment	not modelled	13.9	9	PDB header: transport protein Chain: A: PDB Molecule: putative hexose phosphate translocator; PDBTitle: crystal structure of the triose-phosphate/phosphate translocator in2 complex with 3-phosphoglycerate
38	d1lghb	Alignment	not modelled	11.8	21	Fold: Light-harvesting complex subunits Superfamily: Light-harvesting complex subunits Family: Light-harvesting complex subunits
39	c3rkoF	Alignment	not modelled	11.6	16	PDB header: oxidoreductase Chain: F: PDB Molecule: nadh-quinone oxidoreductase subunit j; PDBTitle: crystal structure of the membrane domain of respiratory complex i from2 e. coli at 3.0 angstrom resolution
40	c2k9pA	Alignment	not modelled	10.1	20	PDB header: membrane protein Chain: A: PDB Molecule: pheromone alpha factor receptor; PDBTitle: structure of tm1_tm2 in lppg micelles
41	c6et5u	Alignment	not modelled	9.8	18	PDB header: photosynthesis Chain: U: PDB Molecule: light-harvesting protein b-1015 gamma chain; PDBTitle: reaction centre light harvesting complex 1 from blc. viridis
42	c3wmmP	Alignment	not modelled	9.5	19	PDB header: photosynthesis Chain: P: PDB Molecule: lh1 beta polypeptide; PDBTitle: crystal structure of the lh1-rc complex from thermochromatium tepidum2 in c2 form
43	c3v5uA	Alignment	not modelled	9.2	11	PDB header: metal transport Chain: A: PDB Molecule: uncharacterized membrane protein mj0091; PDBTitle: structure of sodium/calcium exchanger from methanocaldococcus2 jannaschii dsm 2661
44	c1wrgA	Alignment	not modelled	8.4	17	PDB header: membrane protein Chain: A: PDB Molecule: light-harvesting protein b-880, beta chain; PDBTitle: light-harvesting complex 1 beta subunit from wild-type2 rhodospirillum rubrum
45	c2l6wB	Alignment	not modelled	7.9	25	PDB header: membrane protein Chain: B: PDB Molecule: beta-type platelet-derived growth factor receptor; PDBTitle: pdgfr beta-tm
46	c2l6wA	Alignment	not modelled	7.9	25	PDB header: membrane protein Chain: A: PDB Molecule: beta-type platelet-derived growth factor receptor; PDBTitle: pdgfr beta-tm
47	d3proc1	Alignment	not modelled	7.8	10	Fold: Alpha-lytic protease prodomain-like Superfamily: Alpha-lytic protease prodomain Family: Alpha-lytic protease prodomain
48	c4dveA	Alignment	not modelled	7.7	6	PDB header: transport protein Chain: A: PDB Molecule: biotin transporter bio; PDBTitle: crystal structure at 2.1 a of the s-component for biotin from an ecf-2 type abc transporter
49	c6nbxG	Alignment	not modelled	7.0	11	PDB header: oxidoreductase Chain: G: PDB Molecule: nadh-quinone oxidoreductase subunit j; PDBTitle: t.elongatus ndh (data-set 2)
50	c5kzoA	Alignment	not modelled	7.0	17	PDB header: transcription Chain: A: PDB Molecule: neurogenic locus notch homolog protein 1; PDBTitle: notch1 transmembrane and associated juxtamembrane segment
51	d1stza1	Alignment	not modelled	6.8	18	Fold: DNA/RNA-binding 3-helical bundle Superfamily: "Winged helix" DNA-binding domain Family: Heat-inducible transcription repressor HrcA, N-terminal domain
52	c2inpD	Alignment	not modelled	6.8	17	PDB header: oxidoreductase Chain: D: PDB Molecule: phenol hydroxylase component phi; PDBTitle: structure of the phenol hydroxylase-regulatory protein2 complex
53	d2iuba2	Alignment	not modelled	6.6	5	Fold: Transmembrane helix hairpin Superfamily: Magnesium transport protein CorA, transmembrane region Family: Magnesium transport protein CorA, transmembrane region
54	c4kppA	Alignment	not modelled	6.0	14	PDB header: membrane protein Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of h+/ca2+ exchanger cax

55	c6dstA_	Alignment	not modelled	5.5	8	PDB header: toxin Chain: A: PDB Molecule: melittin; PDBTitle: recombinant melittin
56	c2mltA_	Alignment	not modelled	5.5	8	PDB header: toxin (hemolytic polypeptide) Chain: A: PDB Molecule: melittin; PDBTitle: melittin
57	c2mltB_	Alignment	not modelled	5.5	8	PDB header: toxin (hemolytic polypeptide) Chain: B: PDB Molecule: melittin; PDBTitle: melittin
58	c6o4mA_	Alignment	not modelled	5.5	8	PDB header: toxin Chain: A: PDB Molecule: melittin; PDBTitle: racemic melittin
59	c6o4mB_	Alignment	not modelled	5.5	8	PDB header: toxin Chain: B: PDB Molecule: melittin; PDBTitle: racemic melittin
60	c2qtsA_	Alignment	not modelled	5.5	22	PDB header: membrane protein Chain: A: PDB Molecule: acid-sensing ion channel; PDBTitle: structure of an acid-sensing ion channel 1 at 1.9 a resolution and low2 ph
61	d1jo5a_	Alignment	not modelled	5.5	11	Fold: Light-harvesting complex subunits Superfamily: Light-harvesting complex subunits Family: Light-harvesting complex subunits
62	d1fftb2	Alignment	not modelled	5.4	13	Fold: Transmembrane helix hairpin Superfamily: Cytochrome c oxidase subunit II-like, transmembrane region Family: Cytochrome c oxidase subunit II-like, transmembrane region