



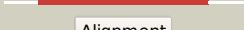

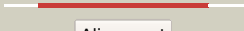









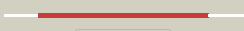





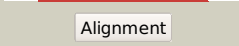







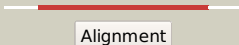

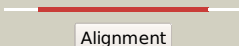

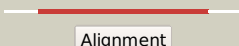



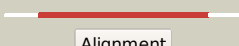

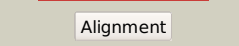
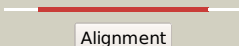
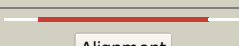
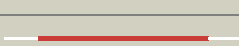
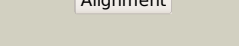
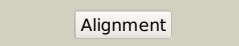
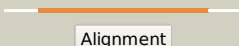
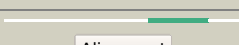


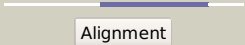
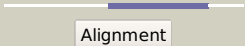
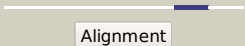

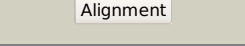
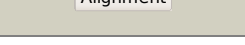
Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1979c (-)_2221727_2223172
Date	Mon Aug 5 13:25:08 BST 2019
Unique Job ID	1825a319bda591f7

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4djiA_	 Alignment		100.0	13	PDB header: transport protein Chain: A: PDB Molecule: probable glutamate/gamma-aminobutyrate antiporter; PDBTitle: structure of glutamate-gaba antiporter gadc
2	c6f2wA_	 Alignment		100.0	23	PDB header: transport protein Chain: A: PDB Molecule: putative amino acid/polyamine transport protein; PDBTitle: bacterial asc transporter crystal structure in open to in conformation
3	c6irtB_	 Alignment		100.0	21	PDB header: membrane protein Chain: B: PDB Molecule: large neutral amino acids transporter small subunit 1; PDBTitle: human lat1-4f2hc complex bound with bch
4	c5oqtA_	 Alignment		100.0	20	PDB header: transport protein Chain: A: PDB Molecule: amino acid transporter; PDBTitle: crystal structure of a bacterial cationic amino acid transporter (cat)2 homologue
5	c6nplA_	 Alignment		100.0	15	PDB header: membrane protein Chain: A: PDB Molecule: solute carrier family 12 (sodium/potassium/chloride) PDBTitle: cryo-em structure of nkcc1
6	c3giaA_	 Alignment		100.0	23	PDB header: transport protein Chain: A: PDB Molecule: uncharacterized protein mj0609; PDBTitle: crystal structure of apct transporter
7	c6jmqA_	 Alignment		100.0	21	PDB header: membrane protein/immune system Chain: A: PDB Molecule: large neutral amino acids transporter small subunit 1; PDBTitle: lat1-cd98hc complex bound to mem-108 fab
8	c3lrcC_	 Alignment		100.0	25	PDB header: transport protein Chain: C: PDB Molecule: arginine/agmatine antiporter; PDBTitle: structure of e. coli adic (p1)
9	c6csfC_	 Alignment		100.0	14	PDB header: membrane protein Chain: C: PDB Molecule: sodium/alanine symporter agcs; PDBTitle: crystal structure of sodium/alanine symporter agcs with d-alanine2 bound
10	c2jlnA_	 Alignment		100.0	12	PDB header: membrane protein Chain: A: PDB Molecule: mhp1; PDBTitle: structure of mhp1, a nucleobase-cation-symport-1 family2 transporter
11	c6c08F_	 Alignment		99.9	11	PDB header: membrane protein Chain: F: PDB Molecule: sodium-coupled neutral amino acid transporter 9; PDBTitle: zebrafish slc38a9 with arginine bound in the cytosol open state

12	c5nvaA_	 Alignment		99.7	10	PDB header: membrane protein Chain: A; PDB Molecule: putative sodium:solute symporter; PDBTitle: substrate-bound outward-open state of a na+-coupled sialic acid2 symporter reveals a novel na+-site
13	c6c08C_	 Alignment		99.6	11	PDB header: membrane protein Chain: C; PDB Molecule: sodium-coupled neutral amino acid transporter 9; PDBTitle: zebrafish slc38a9 with arginine bound in the cytosol open state
14	c3dh4A_	 Alignment		99.6	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
15	c2xq2A_	 Alignment		99.6	9	PDB header: transport protein Chain: A; PDB Molecule: sodium/glucose cotransporter; PDBTitle: structure of the k294a mutant of vsplt
16	c5m87A_	 Alignment		99.3	10	PDB header: transport protein Chain: A; PDB Molecule: divalent metal cation transporter mnth; PDBTitle: crystal structure of eremococcus coleocola manganese transporter
17	c4wgwA_	 Alignment		99.2	8	PDB header: transport protein Chain: A; PDB Molecule: divalent metal cation transporter mnth; PDBTitle: staphylococcus capitis divalent metal ion transporter (dmt) in complex2 with manganese
18	c4wgvC_	 Alignment		99.2	8	PDB header: transport protein Chain: C; PDB Molecule: divalent metal cation transporter mnth; PDBTitle: crystal structure of staphylococcus capitis divalent metal ion2 transporter (dmt) in complex with nanobody
19	c5i6xA_	 Alignment		98.8	14	PDB header: membrane protein Chain: A; PDB Molecule: sodium-dependent serotonin transporter; PDBTitle: x-ray structure of the ts3 human serotonin transporter complexed with2 paroxetine at the central site
20	c4m48A_	 Alignment		98.8	11	PDB header: transport protein Chain: A; PDB Molecule: transporter; PDBTitle: x-ray structure of dopamine transporter elucidates antidepressant2 mechanism
21	d2a65a1	 Alignment	not modelled	98.0	11	Fold: SNF-like Superfamily: SNF-like Family: SNF-like
22	c4us3A_	 Alignment	not modelled	97.9	11	PDB header: transport protein Chain: A; PDB Molecule: transporter; PDBTitle: crystal structure of the bacterial nss member mhst in an2 occluded inward-facing state
23	c4ainB_	 Alignment	not modelled	95.9	12	PDB header: membrane protein Chain: B; PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of betp with asymmetric protomers.
24	c2w8aC_	 Alignment	not modelled	95.5	13	PDB header: membrane protein Chain: C; PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of the sodium-coupled glycine betaine2 symporter betp from corynebacterium glutamicum with bound3 substrate
25	c3hfxA_	 Alignment	not modelled	94.5	10	PDB header: transport protein Chain: A; PDB Molecule: l-carnitine/gamma-butyrobetaine antiporter; PDBTitle: crystal structure of carnitine transporter
26	c5kteA_	 Alignment	not modelled	85.0	10	PDB header: transport protein/immune system Chain: A; PDB Molecule: divalent metal cation transporter mnth; PDBTitle: crystal structure of deinococcus radiodurans mnth, an nramp-family2 transition metal transporter
27	c4qtnB_	 Alignment	not modelled	41.2	8	PDB header: transport protein Chain: B; PDB Molecule: nicotinamide riboside transporter pnuc; PDBTitle: crystal structure of the vitamin b3 transporter pnuc
28	c3j1zP_	 Alignment	not modelled	20.7	16	PDB header: metal transport Chain: P; PDB Molecule: cation efflux family protein; PDBTitle: inward-facing conformation of the zinc transporter yiiip revealed by2 cryo-electron microscopy

29	c6cc4A_	 Alignment	not modelled	15.2	9	PDB header: transport protein Chain: A: PDB Molecule: soluble cytochrome b562, lipid ii flippase murj chimera; PDBTitle: structure of murj from escherichia coli
30	c4n7wA_	 Alignment	not modelled	11.9	12	PDB header: transport protein Chain: A: PDB Molecule: transporter, sodium/bile acid symporter family; PDBTitle: crystal structure of the sodium bile acid symporter from yersinia2 frederiksenii
31	d1fftb2	 Alignment	not modelled	9.2	7	Fold: Transmembrane helix hairpin Superfamily: Cytochrome c oxidase subunit II-like, transmembrane region Family: Cytochrome c oxidase subunit II-like, transmembrane region
32	c6n3qD_	 Alignment	not modelled	8.3	8	PDB header: transport protein Chain: D: PDB Molecule: protein translocation protein sec63; PDBTitle: cryo-em structure of the yeast sec complex
33	c2lomA_	 Alignment	not modelled	5.4	13	PDB header: membrane protein Chain: A: PDB Molecule: hig1 domain family member 1a; PDBTitle: backbone structure of human membrane protein higd1a
34	c4hkrB_	 Alignment	not modelled	5.4	10	PDB header: transport protein Chain: B: PDB Molecule: calcium release-activated calcium channel protein 1; PDBTitle: calcium release-activated calcium (crac) channel orai