

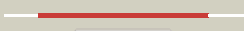










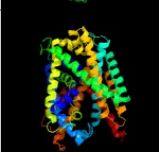





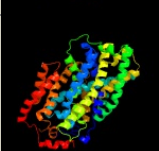

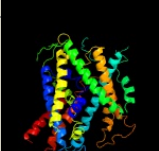


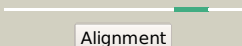

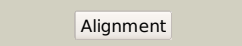
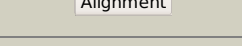
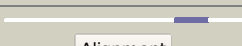
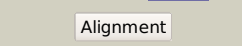
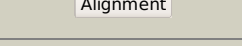
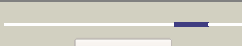
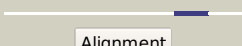


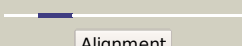


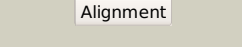
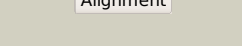
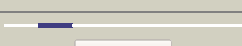

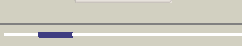

Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD3253c_(-)_3632094_3633581
Date	Thu Aug 8 16:20:45 BST 2019
Unique Job ID	c17140c7f88207e0

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5oqtA_	 Alignment		100.0	48	PDB header: transport protein Chain: A; PDB Molecule: amino acid transporter; PDBTitle: crystal structure of a bacterial cationic amino acid transporter (cat)2 homologue
2	c6nplA_	 Alignment		100.0	14	PDB header: membrane protein Chain: A; PDB Molecule: solute carrier family 12 (sodium/potassium/chloride PDBTitle: cryo-em structure of nkcc1
3	c6f2wA_	 Alignment		100.0	19	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
4	c4djiA_	 Alignment		100.0	18	PDB header: transport protein Chain: A; PDB Molecule: probable glutamate/gamma-aminobutyrate antiporter; PDBTitle: structure of glutamate-gaba antiporter gadc
5	c6irtB_	 Alignment		100.0	20	PDB header: membrane protein Chain: B; PDB Molecule: large neutral amino acids transporter small subunit 1; PDBTitle: human lat1-4f2hc complex bound with bch
6	c3giaA_	 Alignment		100.0	19	PDB header: transport protein Chain: A; PDB Molecule: uncharacterized protein mj0609; PDBTitle: crystal structure of apct transporter
7	c6jmqA_	 Alignment		100.0	20	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	22	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	10	PDB header: membrane protein Chain: A; PDB Molecule: mhp1; PDBTitle: structure of mhp1, a nucleobase-cation-symport-1 family2 transporter
11	c6c08F_	 Alignment		99.7	12	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	11	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		99.5	14	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	c2xq2A_	Alignment		99.3	10	PDB header: transport protein Chain: A: PDB Molecule: sodium/glucose cotransporter; PDBTitle: structure of the k294a mutant of vsplt
15	c5m87A_	Alignment		99.0	12	PDB header: transport protein Chain: A: PDB Molecule: divalent metal cation transporter mnth; PDBTitle: crystal structure of eremococcus coleocola manganese transporter
16	c3dh4A_	Alignment		98.9	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
17	c4wqwA_	Alignment		98.7	13	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	c4wqvC_	Alignment		98.7	13	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	c4m48A_	Alignment		98.3	13	PDB header: transport protein Chain: A: PDB Molecule: transporter; PDBTitle: x-ray structure of dopamine transporter elucidates antidepressant2 mechanism
20	c5i6xA_	Alignment		97.9	15	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
21	c4ainB_	Alignment	not modelled	97.8	15	PDB header: membrane protein Chain: B: PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of betp with asymmetric protomers.
22	d2a65a1	Alignment	not modelled	97.6	15	Fold: SNF-like Superfamily: SNF-like Family: SNF-like
23	c4us3A_	Alignment	not modelled	97.1	13	PDB header: transport protein Chain: A: PDB Molecule: transporter; PDBTitle: crystal structure of the bacterial nss member mhst in a2 occluded inward-facing state
24	c3hfxA_	Alignment	not modelled	96.1	11	PDB header: transport protein Chain: A: PDB Molecule: l-carnitine/gamma-butyrobetaine antiporter; PDBTitle: crystal structure of carnitine transporter
25	c2w8aC_	Alignment	not modelled	95.9	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
26	c5kteA_	Alignment	not modelled	85.3	12	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	c2m67A_	Alignment	not modelled	59.6	19	PDB header: transport protein Chain: A: PDB Molecule: merf; PDBTitle: full-length mercury transporter protein merf in lipid bilayer2 membranes
28	c3tdsC_	Alignment	not modelled	47.8	10	PDB header: membrane protein Chain: C: PDB Molecule: formate/nitrite transporter; PDBTitle: crystal structure of hsc f194j

29	c3qngD		not modelled	47.6	12	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
30	c2micA		not modelled	36.8	19	PDB header: membrane protein Chain: A: PDB Molecule: tumor necrosis factor receptor superfamily member 16; PDBTitle: nmr structure of p75 transmembrane domain in dpc micelles
31	c2micB		not modelled	36.8	19	PDB header: membrane protein Chain: B: PDB Molecule: tumor necrosis factor receptor superfamily member 16; PDBTitle: nmr structure of p75 transmembrane domain in dpc micelles
32	c4kppA		not modelled	28.6	13	PDB header: membrane protein Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of h+/ca2+ exchanger cax
33	c4x5mB		not modelled	20.4	7	PDB header: transport protein Chain: B: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of semisweet in the inward-open conformation
34	d1fftb2		not modelled	19.1	12	Fold: Transmembrane helix hairpin Superfamily: Cytochrome c oxidase subunit II-like, transmembrane region Family: Cytochrome c oxidase subunit II-like, transmembrane region
35	c4n7wA		not modelled	17.7	5	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
36	c6nbxG		not modelled	17.5	11	PDB header: oxidoreductase Chain: G: PDB Molecule: nadh-quinone oxidoreductase subunit j; PDBTitle: t.elongatus ndh (data-set 2)
37	c5sv0C		not modelled	10.7	11	PDB header: transport protein Chain: C: PDB Molecule: biopolymer transport protein exbb; PDBTitle: structure of the exbb/exbd complex from e. coli at ph 7.0
38	c2momC		not modelled	9.8	15	PDB header: membrane protein Chain: C: PDB Molecule: lysosome-associated membrane glycoprotein 2; PDBTitle: structural insights of tm domain of lamp-2a in dpc micelles
39	c2momB		not modelled	9.8	15	PDB header: membrane protein Chain: B: PDB Molecule: lysosome-associated membrane glycoprotein 2; PDBTitle: structural insights of tm domain of lamp-2a in dpc micelles
40	c2kluA		not modelled	9.7	26	PDB header: immune system, membrane protein Chain: A: PDB Molecule: t-cell surface glycoprotein cd4; PDBTitle: nmr structure of the transmembrane and cytoplasmic domains2 of human cd4
41	c4k1cA		not modelled	8.5	10	PDB header: membrane protein/metal transport Chain: A: PDB Molecule: vacuolar calcium ion transporter; PDBTitle: vcx1 calcium/proton exchanger
42	c6hwhL		not modelled	7.8	9	PDB header: electron transport Chain: L: PDB Molecule: cytochrome c oxidase subunit 2; PDBTitle: structure of a functional obligate respiratory supercomplex from2 mycobacterium smegmatis
43	c1zxaB		not modelled	7.6	26	PDB header: transferase Chain: B: PDB Molecule: cgmp-dependent protein kinase 1, alpha isozyme; PDBTitle: solution structure of the coiled-coil domain of cgmp-2 dependent protein kinase ia
44	c2na6C		not modelled	7.1	13	PDB header: apoptosis Chain: C: PDB Molecule: tumor necrosis factor receptor superfamily member 6; PDBTitle: transmembrane domain of mouse fas/cd95 death receptor
45	c2na6B		not modelled	7.1	13	PDB header: apoptosis Chain: B: PDB Molecule: tumor necrosis factor receptor superfamily member 6; PDBTitle: transmembrane domain of mouse fas/cd95 death receptor
46	c2na6A		not modelled	7.1	13	PDB header: apoptosis Chain: A: PDB Molecule: tumor necrosis factor receptor superfamily member 6; PDBTitle: transmembrane domain of mouse fas/cd95 death receptor
47	c2voyG		not modelled	6.5	16	PDB header: hydrolase Chain: G: PDB Molecule: sarcoplasmic/endoplasmic reticulum calcium atpase 1; PDBTitle: cryoem model of copa, the copper transporting atpase from2 archaeoglobus fulgidus
48	c5ogeE		not modelled	6.4	7	PDB header: membrane protein Chain: E: PDB Molecule: gdp-mannose transporter 1; PDBTitle: crystal structure of a nucleotide sugar transporter
49	c4r4mB		not modelled	6.4	24	PDB header: dna binding protein Chain: B: PDB Molecule: cgmp-dependent protein kinase 1; PDBTitle: crystal structure of c42l cgmp dependent protein kinase i alpha (pkgi2 alpha) leucine zipper
50	c4ev6E		not modelled	5.9	10	PDB header: metal transport Chain: E: PDB Molecule: magnesium transport protein cora; PDBTitle: the complete structure of cora magnesium transporter from2 methanocaldococcus jannaschii
51	c5kwpA		not modelled	5.8	33	PDB header: de novo protein Chain: A: PDB Molecule: designed peptide nc_eeh_d2; PDBTitle: nmr solution structure of designed peptide nc_eeh_d2
						PDB header: membrane protein

52	c6ijjK_	Alignment	not modelled	5.7	13	Chain: K; PDB Molecule: psak; PDBTitle: photosystem i of chlamydomonas reinhardtii
53	c4k1cB_	Alignment	not modelled	5.5	13	PDB header: membrane protein/metal transport Chain: B; PDB Molecule: vacuolar calcium ion transporter; PDBTitle: vcx1 calcium/proton exchanger
54	c5d92B_	Alignment	not modelled	5.3	12	PDB header: membrane protein Chain: B; PDB Molecule: af2299 protein,phosphatidylinositol synthase; PDBTitle: structure of a phosphatidylinositolphosphate (pip) synthase from2 renibacterium salmoninarum
55	c2kncA_	Alignment	not modelled	5.3	7	PDB header: cell adhesion Chain: A; PDB Molecule: integrin alpha-iib; PDBTitle: platelet integrin alfa-iib-beta3 transmembrane-cytoplasmic2 heterocomplex
56	c1ujlA_	Alignment	not modelled	5.3	5	PDB header: membrane protein Chain: A; PDB Molecule: potassium voltage-gated channel subfamily h PDBTitle: solution structure of the herg k+ channel s5-p2 extracellular linker