







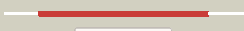















Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2994 (-) _3351279_3352616
Date	Thu Aug 8 16:20:16 BST 2019
Unique Job ID	cd119fcdc50361f0

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c6e9oA_	 Alignment		100.0	12	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
2	d1pw4a_	 Alignment		100.0	18	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
3	c3wdoA_	 Alignment		100.0	15	PDB header: transport protein Chain: A: PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
4	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
5	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 angstroem resolution
6	c4ldsB_	 Alignment		100.0	15	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	c2gfpA_	 Alignment		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
8	d1pv7a_	 Alignment		100.0	12	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
9	c1pv7B_	 Alignment		100.0	12	PDB header: transport protein Chain: B: PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
10	c4j05A_	 Alignment		100.0	14	PDB header: transport protein Chain: A: PDB Molecule: phosphate transporter; PDBTitle: crystal structure of a eukaryotic phosphate transporter
11	c4iu8A_	 Alignment		100.0	15	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter (selenomethionine2 derivative)

12	c6h7dA_	Alignment		100.0	13	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
13	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.
14	c4apsB_	Alignment		100.0	11	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.
15	c3o7pA_	Alignment		100.0	12	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	c4iu9A_	Alignment		100.0	11	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter
17	c5c65A_	Alignment		100.0	12	PDB header: transport protein Chain: A: PDB Molecule: solute carrier family 2, facilitated glucose transporter PDBTitle: structure of the human glucose transporter glut3 / slc2a3
18	c6exsA_	Alignment		100.0	12	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.
19	c6gs7A_	Alignment		100.0	14	PDB header: membrane protein Chain: A: PDB Molecule: dipeptide and tripeptide permease a; PDBTitle: crystal structure of peptide transporter dtpa-nanobody in glycine2 buffer
20	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
21	c4ikyA_	Alignment	not modelled	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
22	c4ybgB_	Alignment	not modelled	100.0	14	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
23	c5aynA_	Alignment	not modelled	100.0	11	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
24	c4pypA_	Alignment	not modelled	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
25	c4gbzA_	Alignment	not modelled	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
26	c4q65A_	Alignment	not modelled	100.0	16	PDB header: transport protein Chain: A: PDB Molecule: dipeptide permease d; PDBTitle: structure of the e. coli peptide transporter ybgh
27	c6ei3A_	Alignment	not modelled	100.0	13	PDB header: membrane protein Chain: A: PDB Molecule: proton-dependent oligopeptide transporter family protein; PDBTitle: crystal structure of auto inhibited pot family peptide transporter PDB header: transport protein Chain: A: PDB Molecule: solute carrier family 39 (iron-regulated

28	c5aymA	Alignment	not modelled	100.0	10	transporter); PDBTitle: crystal structure of a bacterial homologue of iron transporter2 ferroportin in outward-facing state with soaked iron
29	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
30	c2xutC	Alignment	not modelled	100.0	12	PDB header: transport protein Chain: C: PDB Molecule: proton/peptide symporter family protein; PDBTitle: crystal structure of a proton dependent oligopeptide (pot) family2 transporter.
31	c4m64D	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
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	c3b9yA	Alignment	not modelled	29.0	15	PDB header: transport protein Chain: A: PDB Molecule: ammonium transporter family rh-like protein; PDBTitle: crystal structure of the nitrosomonas europaea rh protein
34	c2kncA	Alignment	not modelled	18.1	11	PDB header: cell adhesion Chain: A: PDB Molecule: integrin alpha-iib; PDBTitle: platelet integrin alfaIib-beta3 transmembrane-cytoplasmic2 heterocomplex
35	c6nbxG	Alignment	not modelled	17.5	20	PDB header: oxidoreductase Chain: G: PDB Molecule: nadh-quinone oxidoreductase subunit j; PDBTitle: t.elongatus ndh (data-set 2)
36	c6eu6A	Alignment	not modelled	11.7	10	PDB header: membrane protein Chain: A: PDB Molecule: ammonium transporter; PDBTitle: sensor amt protein
37	c5aezA	Alignment	not modelled	11.5	11	PDB header: membrane protein Chain: A: PDB Molecule: mep2; PDBTitle: crystal structure of candida albicans mep2
38	c2g9pA	Alignment	not modelled	10.2	21	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
39	c5wlbC	Alignment	not modelled	8.8	50	PDB header: protein binding Chain: C: PDB Molecule: 225-15 b; PDBTitle: kras g12v, bound to gppnhp and miniprotein 225-15a/b
40	c5y50A	Alignment	not modelled	8.1	11	PDB header: membrane protein Chain: A: PDB Molecule: protein detoxification 14; PDBTitle: crystal structure of eukaryotic mate transporter atdtx14
41	c2l8sA	Alignment	not modelled	7.9	16	PDB header: cell adhesion Chain: A: PDB Molecule: integrin alpha-1; PDBTitle: solution nmr structure of transmembrane and cytosolic regions of2 integrin alpha1 in detergent micelles
42	c3vvpA	Alignment	not modelled	7.2	9	PDB header: transport protein Chain: A: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of mate in complex with br-nrf
43	c2kluA	Alignment	not modelled	7.1	23	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
44	c4ainB	Alignment	not modelled	6.5	13	PDB header: membrane protein Chain: B: PDB Molecule: glycine betaine transporter betp; PDBTitle: crystal structure of betp with asymmetric protomers.
45	c2jmvA	Alignment	not modelled	6.5	27	PDB header: antiviral protein Chain: A: PDB Molecule: scytovirin; PDBTitle: solution structure of scytovirin refined against residual2 dipolar couplings
46	c2b6pA	Alignment	not modelled	6.5	15	PDB header: membrane protein Chain: A: PDB Molecule: lens fiber major intrinsic protein; PDBTitle: x-ray structure of lens aquaporin-0 (aqp0) (lens mip) in an open pore2 state
47	d3proc1	Alignment	not modelled	6.4	5	Fold: Alpha-lytic protease prodomain-like Superfamily: Alpha-lytic protease prodomain Family: Alpha-lytic protease prodomain
48	c2lm0A	Alignment	not modelled	6.1	22	PDB header: nuclear protein Chain: A: PDB Molecule: af4/fmr2 family member 1/protein af-9 chimera; PDBTitle: solution structure of the af4-af9 complex
49	c5sxpG	Alignment	not modelled	5.6	44	PDB header: signaling protein/ligase Chain: G: PDB Molecule: e3 ubiquitin-protein ligase itchy homolog; PDBTitle: structural basis for the interaction between itch prr and beta-pix
50	c3utmC	Alignment	not modelled	5.3	53	PDB header: transferase/signaling protein Chain: C: PDB Molecule: axin-1; PDBTitle: crystal structure of a mouse tankyrase-axin complex
51	c5sxpF	Alignment	not modelled	5.2	44	PDB header: signaling protein/ligase Chain: F: PDB Molecule: e3 ubiquitin-protein ligase itchy homolog; PDBTitle: structural basis for the interaction between itch prr and beta-pix
52	c3a0aB	Alignment	not modelled	5.2	50	PDB header: structural protein Chain: B: PDB Molecule: collagen-like peptide; PDBTitle: structure of (ppg)4-opg-(ppg)4, monoclinic, twinned crystal