























Phyre2

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Detailed template
information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	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
2	c4zp0A_	 Alignment		100.0	16	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	c6gs7A_	 Alignment		100.0	9	PDB header: membrane protein Chain: A; PDB Molecule: dipeptide and tripeptide permease a; PDBTitle: crystal structure of peptide transporter dtpa-nanobody in glycine2 buffer
5	d1pw4a_	 Alignment		100.0	12	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: Glycerol-3-phosphate transporter
6	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
7	c4cl5B_	 Alignment		100.0	12	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.
8	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
9	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
10	c4ikyA_	 Alignment		100.0	11	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
11	c4w6vA_	 Alignment		100.0	11	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

12	c4ybgB_	Alignment		100.0	11	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
13	c4apsB_	Alignment		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.
14	c3wdoA_	Alignment		100.0	16	PDB header: transport protein Chain: A: PDB Molecule: mfs transporter; PDBTitle: structure of e. coli yajr transporter
15	c6exsA_	Alignment		100.0	11	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	c2gfpA_	Alignment		100.0	21	PDB header: membrane protein Chain: A: PDB Molecule: multidrug resistance protein d; PDBTitle: structure of the multidrug transporter emrd from2 escherichia coli
17	c4gbzA_	Alignment		100.0	7	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
18	c6g9xB_	Alignment		100.0	13	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
19	c6ei3A_	Alignment		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
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	c2xutC_	Alignment	not modelled	100.0	10	PDB header: transport protein Chain: C: PDB Molecule: proton/peptide symporter family protein; PDBTitle: crystal structure of a proton dependent oligopeptide (pot) family2 transporter.
22	c3o7pA_	Alignment	not modelled	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)
23	c4iu8A_	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 (selenomethionine2 derivative)
24	c4lepB_	Alignment	not modelled	100.0	10	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
25	c4q65A_	Alignment	not modelled	100.0	12	PDB header: transport protein Chain: A: PDB Molecule: dipeptide permease d; PDBTitle: structure of the e. coli peptide transporter ybgh
26	c4iu9A_	Alignment	not modelled	100.0	15	PDB header: transport protein Chain: A: PDB Molecule: nitrite extrusion protein 2; PDBTitle: crystal structure of a membrane transporter
27	d1pv7a_	Alignment	not modelled	100.0	8	Fold: MFS general substrate transporter Superfamily: MFS general substrate transporter Family: LacY-like proton/sugar symporter
28	c1pv7B_	Alignment	not modelled	100.0	8	PDB header: transport protein Chain: B: PDB Molecule: lactose permease; PDBTitle: crystal structure of lactose permease with tdg
						PDB header: transport protein

29	c5aynA_	Alignment	not modelled	100.0	10	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
30	c5aymA_	Alignment	not modelled	99.9	12	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	99.9	13	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	15	PDB header: transport protein Chain: A; PDB Molecule: equilibrative nucleoside transporter 1; PDBTitle: human equilibrative nucleoside transporter-1, dilazep bound
33	c3fewX_	Alignment	not modelled	71.0	19	PDB header: immune system Chain: X; PDB Molecule: colicin s4; PDBTitle: structure and function of colicin s4, a colicin with a duplicated2 receptor binding domain
34	d1rh1a2	Alignment	not modelled	66.3	17	Fold: Toxins' membrane translocation domains Superfamily: Colicin Family: Colicin
35	d1cola_	Alignment	not modelled	58.3	17	Fold: Toxins' membrane translocation domains Superfamily: Colicin Family: Colicin
36	c1rh1A_	Alignment	not modelled	37.3	17	PDB header: antibiotic Chain: A; PDB Molecule: colicin b; PDBTitle: crystal structure of the cytotoxic bacterial protein2 colicin b at 2.5 a resolution
37	c2g9pA_	Alignment	not modelled	22.1	7	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 tarabaei) venom
38	c2i88A_	Alignment	not modelled	20.2	22	PDB header: membrane protein Chain: A; PDB Molecule: colicin-e1; PDBTitle: crystal structure of the channel-forming domain of colicin e1
39	c1a87A_	Alignment	not modelled	14.4	17	PDB header: bacteriocin Chain: A; PDB Molecule: colicin n; PDBTitle: colicin n
40	d1a87a_	Alignment	not modelled	14.4	17	Fold: Toxins' membrane translocation domains Superfamily: Colicin Family: Colicin
41	c4dveA_	Alignment	not modelled	10.6	6	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
42	c5tsaA_	Alignment	not modelled	9.7	13	PDB header: metal binding protein Chain: A; PDB Molecule: membrane protein; PDBTitle: crystal structure of the zrt-/irt-like protein from bordetella2 bronchiseptica with bound zn2+
43	c3b9yA_	Alignment	not modelled	9.7	13	PDB header: transport protein Chain: A; PDB Molecule: ammonium transporter family rh-like protein; PDBTitle: crystal structure of the nitrosomonas europaea rh protein
44	c2b6pA_	Alignment	not modelled	9.4	12	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